Main catalogue 2009 /2010

Updated Edition - February 2010

CCTV/IP

Products for Solutions

See more than others.

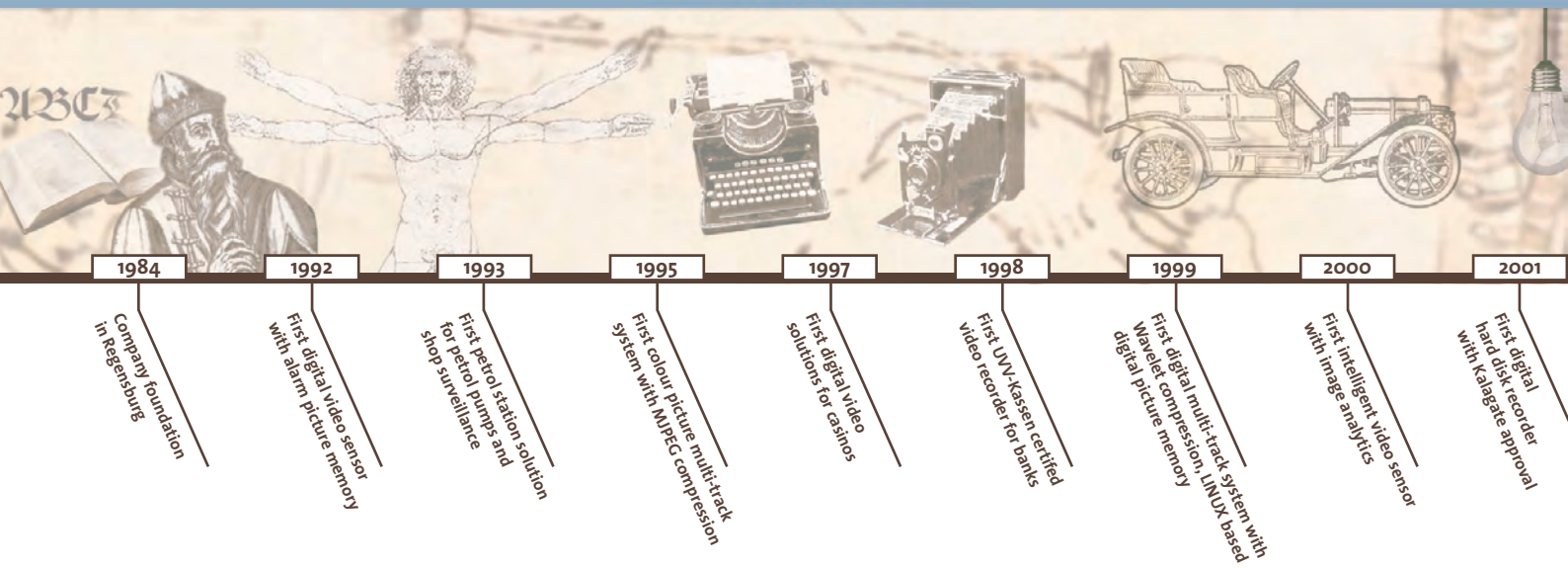
Dallmeier

Dallmeier
Green Global Security

Environmental protection is a major concern for Dallmeier and in this regard the company's efforts far exceed the legal regulations. Waste avoidance and low energy consumption during the manufacturing process as well as the use of recyclable materials are equally part of the corporate philosophy, as is the orientation of the product development towards environmentally friendly and ecologically efficient devices. Sustainability and compatibility are key concepts in this context. Therefore, we always aim, for instance, to keep the energy consumption of our devices as low as possible. This effort not only shows in falling energy costs but also saves the environment. Furthermore, the products are characterised by their longevity which is another aspect of ecological thinking. For what can be used for a long time and does not need to be replaced avoids environmental stress. Dallmeier regards it as part of its corporate responsibility to holistically integrate the protection of the environment into its thinking and acting and to continuously work on further improvements.

The data in this catalogue reflect the status quo at the time of publication (04/02/2010). However, due to the rapid technological advance and the constant further development of our products, specifications can change. In order to ensure that you are provided with up-to-the-minute technical data, we offer you separate data sheets for every single product for download on our website www.dallmeier.com. Therefore, we would like to advise you to observe the latest data sheets when placing an order.

Content



25 Years of Pioneering Work in Video Security

Dear readers,

I am pleased to be able to present to you our new main catalogue.

The year 2009 is a very special year for us as Dallmeier celebrates its 25th anniversary. This jubilee naturally presents a pleasurable occasion to recall the past years. Frequently, I am asked by customers or partners how it all began and how Dallmeier managed to establish itself internationally.

How it all began

In 1984 I decided to go into business for myself as a master television technician. For many years, the company rested upon two people, my wife Christina and me. It took some time and wasn't always easy to come to where we are now with around 300 employees. There have repeatedly been hard times, some lasted longer than others and some passed by quicker.

That is why today, I am particularly proud that we have remained persistent through all those years and always believed in our visions and ideas. Eventually, Dallmeier was able to decisively influence the market. The development of the world's first digital video sensor with digital picture memory, which was introduced among experts in 1992, represents a milestone in the evolution of the industry and rang in the age of digital technology for security equipment.

In 1997 we made our breakthrough with the development of the first digital solution for gaming tables for the Crown Casino in Australia. The rising demand for Dallmeier products allowed us to stabilise the business and to achieve constant growth up to this day.

Passion and enthusiasm

People often ask me what motivated me to keep working hard for all those years. My reply to this question is always the same: I was mainly driven by passion and enthusiasm for developing as well as advancing forward-looking technologies. In doing so, I have never shied away from pursuing unconventional approaches. It has been very rewarding to produce pioneer work in video security technology over all those years. It is still incredibly exciting to repeatedly give new impetus to the market and to see the direct effects that can have on an entire industry.

That passion for our work has also become an integral part of our corporate philosophy and is also shared by the entire workforce. That is why we manage to break new mould, again and again, with undeviating faith in what we do, and why we are able to always be a step ahead. And I am particularly happy that our employees share my passion and that every one of them puts their hearts and souls into their work.

Long-term focus on quality

It has shown that long-term planning and an uncompromising focus on quality always pay off in the long run. Trends, whether in the stock market or in technical areas, are very often short-lived. Only a few technological

2002 First VdS certified HD recorder with SEDOR® technology

2003 OVERALL WINNER of the Security Industry Awards (UK)

2004 First FRS Full Resolution Surveillance in Macau

2005 First UWDR cameras with CamLinPIX® technology

2006 IP cameras with CamLinPIX® technology and H.264 recorder "in Memory of Leonardo"

2007 Picodome® and design product line

2008 Video Management Centre VMC-1 "Eagle"

2009 PTZ camera series DOMERA and HDTV technology

25 1984 - 2009 25 Years Dallmeier

hypes have been able to establish themselves. While others were still trying to proclaim the unique, a follow-up technology had catched up with or even overtaken them.

Often it isn't easy to recognise technological change early on and incorporate it in one's own development plans at the right time. In this regard we have always been guided by one thought: how can the customer benefit from this technology? By systematically concentrating our development on functionality and ease of use, we managed to create reliable and practically oriented solutions for professional video security on every occasion.

Success and responsibility

From the very beginning, Dallmeier has not only felt committed to economic success. For me as the founder and head of the company it is equally important that we recognise our social responsibility. This conviction shapes all our corporate activities. In the past, Dallmeier has been pioneering the area of video security technology in many ways and will continue to develop innovative products which set the benchmark for the industry. With the same energy that the company uses to promote its economic success, it also devotes itself to taking up social responsibility.

Dallmeier Green Global Security

Various aspects of our corporate culture prove that this is not just lip service. The working atmosphere at Dallmeier is characterised by mutual respect, open-mindedness and interest for the work of colleagues. Introducing own ideas and helping each other are equally prominent aspects of that atmosphere. Dallmeier aims at representing the idea of being there for each other to the outside world as well and thus supports a number of aid groups around the world. When it comes to environmental protection Dallmeier is amongst those companies that not only strictly adhere to existing laws. We rather voluntarily impose even more demanding requirements on our corporate activity wherever it seems prudent and possible.

Dallmeier pursues economic success, of course, and asks to be measured by the satisfaction of its customers. However, in doing so we do not allow benevolence to fall by the wayside.

Ideas for the future

Of course, I can't predict what the coming years will bring. But I am looking forward to continue working on our vision and face future challenges and to do so together with my wife Christina, my son Thomas, who is already active in the firm and shares my passion, and with all our employees.

We have many ideas and always push the development of trendsetting solutions for video security. In doing so, the requirements of you, our customers, still come first.

On that note I wish you an enjoyable read of our main catalogue 2009/2010, which again contains many interesting novelties!

Yours

Dieter Dallmeier

Comprehensive solutions from one source

Function. Precision. Perfection.

Regensburg-based manufacturer Dallmeier has more than 25 years of experience in transmission, recording and picture processing technology and is an outstanding pioneer of CCTV/IP solutions worldwide. This extensive knowledge is used in the development of intelligent software and high-quality camera technology, enabling Dallmeier to not only offer stand-alone systems, but complete network solutions up to large projects with perfectly integrated components.

Everything from one source – customised, flexible, scaleable
Only the combination of all the Dallmeier components, namely the recorders, the cameras with calibrated lenses and the easy to use software, allows the customer to fully exploit all the benefits of a complete system. The configuration and control of the Dallmeier cameras, for example, can be done conveniently and at optimal costs via the video cable, and without the need for further wiring to the serial interface, through recorders of the DMS/DLS series or the PView software. Once installed, almost any refinements of all the system components can be carried out via the network. On-site work, which was often necessary during the installation or early stage of a project, can now be reduced to a minimum. In many cases it is possible to reduce installation costs by as much as 50%.

Choosing CCTV systems by Dallmeier, the customer does not receive a mass-produced device. The system is customised to meet the customer's individual requirements and developed according to his specifi cations. Even with extremely short delivery times Dallmeier is able to assemble a customised and fully-functional comprehensive system of intercommunicating components. This customised system is characterised not only by its functionality but also highest availability, user and service friendliness, as well as longevity. Naturally, with Dallmeier the customer receives all this at a reasonable price-performance ratio.

Owing to the highly flexible structure and modular architecture of all Dallmeier components, it is quickly and easily possible to integrate third-party products into the system. The integration possibilities range from systems for the direct control of digital video memory (DVR and NVR) and open standards for the integration of databases (ODBC, SQL etc.) right up to management system interfaces such as OPC and others.

Cameras
With the innovative sensor concept of ***CamInPIX***® technology, the picture information of each individual pixel is converted digitally at the point of capture and processed in the most optimal way. Therefore, even situations with a great range in contrast can be recorded and documented in picture qualities previously unseen. The comprehensive range of cameras omprises high-resolution box and dome cameras, including network cameras, which are always customised to ideally meet the requirements of individual applications.

Digital Hard Disk Video Recorders
The range of digital hard disk recorders is highly diverse. Customers not only have the opportunity to choose between different compression technologies (MPEG-2/-4, H.264), but also select special-purpose models for various applications such as banks, casinos or flexible use.

All Dallmeier recorder models share a common characteristic:
their hardware concepts are based on more than 25 years of experience in the development of high-end components, which meet the extremely high standards of video security technology. Tested stability and reliability of all individual components ensure a long-term availability of the complete systems.

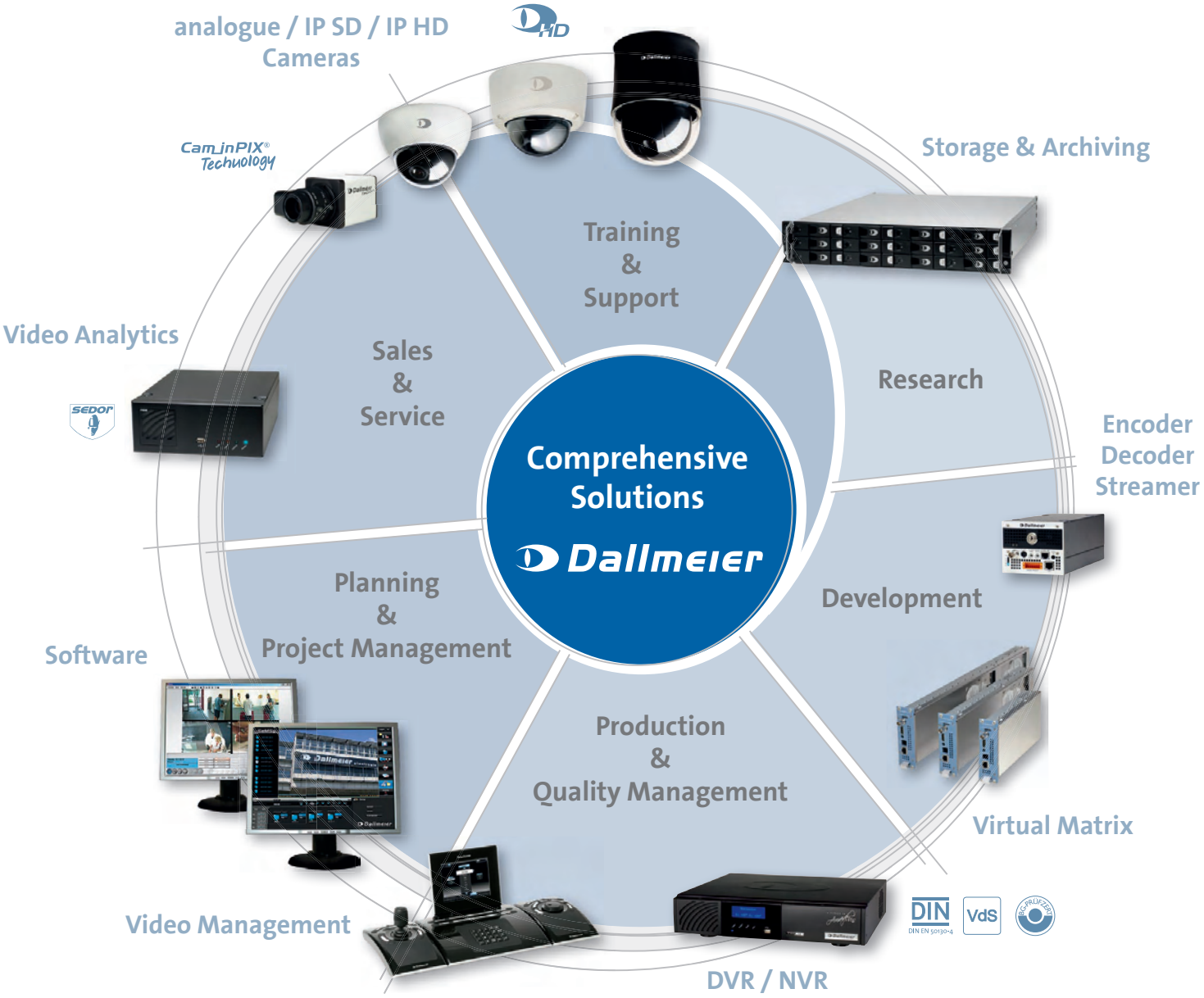
Video Analytics
Video analytics comprises much more these days than mere motion detection. Through intelligent algorithms for the analysis of images and self-learning detection systems it is possible to recognise different situations even within complex scenarios.

With Dallmeier sensor systems it is for instance possible to count people or traffic or detect new static objects. All videoanalysis systems are, of course, fully compatible with other Dallmeier components and can be seamlessly integrated into complex CCTV/IP systems.

Digital Matrix
The Digital Matrix by Dallmeier allows for the transmission and recording of both video and audio signals in broadcast quality via an Ethernet/IP network. With this technology, which is based on the DIS devices, video signals of an unlimited number of cameras are encoded, recorded and, if necessary, transmitted via the IP network. Owing to the use of the MPEG-2/-4 compression technology, the camera images are transmitted in real time, with the highest quality and full frame rate.

Additional network components can be integrated into the network at later points in time without limitations. Therefore, systems based on the security management system SeMSy® are well-equipped to meet all future requirements – today!

Video Management
Application-specific software modules enable the hard disk recorders, video sensors and cameras from Dallmeier to integrate into intelligent comprehensive systems and guarantee the userfriendly and easy configuration as well as the effi cient and intuitive control of even large CCTV/IP solutions.
In order to round off the offer, Dallmeier also offers its own Video Management System, the VMC-1 »Eagle«. With Dallmeier, the highest user-friendliness is also a main priority with all supplementary components.



Storage & Archiving
With the state-of-the-art DAS storage systems (Direct Attached Storage) Dallmeier offers external StorageChassis for connection with the recorders of the DMS series so as to increase storage capacity and provide maximum security of the recorded data.

One step:
Planning & production

Quality “made by Dallmeier”

For over 25 years Dallmeier has been developing and manufacturing high-quality products and complete solutions for the CCTV/IP sector. In its role as a supplier of complete systems the company offers perfectly coordinated components – and strives to create first class, innovative in-house developments and products from its own state-of-the-art production plants. To ensure that everything about a project is handled to the greatest possible satisfaction of the customer, Dallmeier can also provide planning and projection work.

With the first contact already, Dallmeier personnel, with international experience, obtain a picture of the situation and requirements of the customer. The main questions in this process include the following: What are the individual requirements that the customer wants his surveillance system to meet? What conditions apply, for example in terms of infrastructure and network and how can the Dallmeier solution be integrated in any systems that may already be in place? It is only possible to ensure that the solution will meet all the expectations of the customer if that customer receives complete advice tailored to his specific needs from the very beginning of the process.

Customer satisfaction is a core priority for the company. In developing a tailored surveillance system Dallmeier does not simply rely on theoretical considerations and calculations. Intensive practical tests are therefore essential. Consequently, a great deal of investment has been made and an extensive demonstration and test centre has been set up at the production plant in Regensburg in which the entire customer system is installed in the precise configuration and correct in every detail to be tested under real conditions. Even large network environments with over 4,000 cameras can be installed in the demonstration system so that their real-time operation can be simulated.

Thanks to the flexibility of the management software any improvements that are identified during the testing process can be made before the final acceptance procedure.

Quality management is of major importance to Dallmeier

Made by Dallmeier

Dieter Dallmeier, founder and CEO of the company, has defined orientation and guidelines in detail:

“All products are continuously monitored during their production. In addition, each product is subject to a final test before dispatch, which is carried out under increased testing conditions in an air-conditioned environment and under continuous operation. Only those devices that pass all the tests with flying colours will be shipped.

The numbers of certifications and awards as well as the satisfied customers are the best confirmation for the quality and correctness of our concept. The quality of our products is a decisive factor for our customers‘ confidence in our competence. Quality – and to us, this means particularly highest customer satisfaction – is therefore a core priority of our company philosophy.”

This allows Dallmeier to ensure that its quality standards remain uniformly high – “Made by Dallmeier”!

Every machine is handbuilt with each stage being documented

Another benefit for the customer is that he does not just see parts of his future system when he attends the factory acceptance test (FAT), but that he is able to test the system with regards to completeness and functionality in all details before delivery. This test is also an important instrument of quality assurance. It is carried out after completion of the engineering and project planning phase; the customer can therefore be sure that the supplied system will precisely meet his requirements.

In keeping with the company's philosophy "Quality made by Dallmeier", the ISO 9001 certified company develops and manufactures its products in its own production plants. Dallmeier ensures that the entire production process is closely monitored – from the planning, development and production to the commissioning process and after-sales service. All products are manufactured with the latest technologies.

The production personnel have the best equipment and qualification for their duties. They receive extensive training for every product they make. In addition there are explicit work descriptions that explain every individual stage of the process in detail if any of the workers has any further questions.

Dallmeier can offer short lead times for standard products – the customer can be supplied with the systems he requires in only a few working days. This once again demonstrates the high priority given to customer satisfaction since, despite these short lead times, the customer is nevertheless not supplied with a mass product. Dallmeier does not manufacture for stock but only makes systems on the basis of a concrete order so that it can ensure that the system will precisely meet the customer's specifications.

The production personnel have the best equipment and qualification for their duties

Good to know!

You can see the strict Dallmeier quality requirements and the production of your components live.

Just e-Mail us: sales@dallmeier.com

Dallmeier manufactures its products in its own production plants

Paramount:
Our support and customer care

Around the clock advice

A satisfied customer is the ultimate aim at Dallmeier. The best possible technical support and expertise transfer are therefore of paramount importance. In the Dallmeier support team the customer has a competent contact available at all times to answer enquiries and solve problems quickly.

As a manufacturer of high-quality products and solutions, Dallmeier believes it has a duty to pass on its knowledge and expertise to distributors and installers through extensive training courses. End users can therefore initially turn to their sales partner who will be extremely familiar with Dallmeier products. Naturally all customers can also take advantage of the direct assistance provided by the support team.

Close to production and development
The Dallmeier support team has the appropriate hardware and all software versions to enable them to reproduce every possible situation. In addition, support enquiries often provide ideas for improvements. The proximity of support staff to production and to the hardware and software developers ensures that the ideas can be passed on and investigated without delay. This continuous improvement process allows Dallmeier to maintain its leadership in technology and to constantly build upon it.

On-site assistance
If it is not possible to answer a question on the telephone and the problem is of an urgent nature, a member of the support team will go to the customer's premises in person and inspect the situation on site.

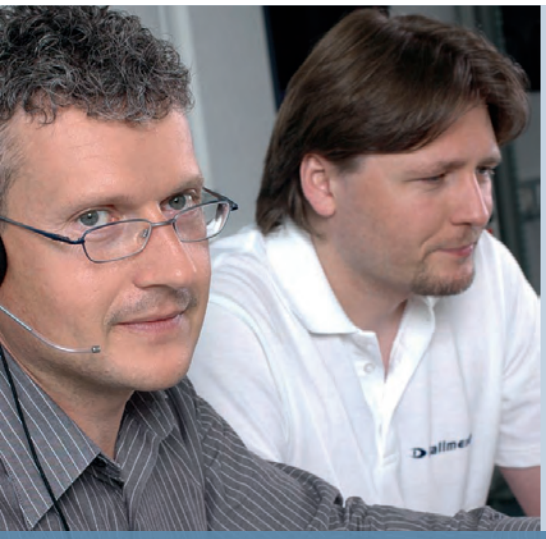
This service can also be requested if the problem is obviously not due to Dallmeier equipment. For example, in a group of Dallmeier recorders with cameras from other manufacturers there may be a problem with setting the cameras. Dallmeier staff will then provide advice and support for an appropriate service charge.

In addition it is possible to obtain remote maintenance using DSL/ISDN in order to gain a better analysis of the problem. The requirement for this, of course, is that the recorder has a DSL/ISDN connection.

Online Partner Forum
Registered customers can log on to a special Partner Forum, which contains valuable information and useful downloads.

You can get your access codes for the online Partner Forum via e-Mail: sales@dallmeier.com

The welcome page or portal contains the latest news relating to recorders, cameras, sensors and software at a glance. Current information and news are listed separately to provide a quick overview. A clear menu on the left hand side guides users through the various topics on the Partner Forum.



Support

At your disposal 24/7

Support-Hotline[1)]
+49(0)1805-32 55 63 or
+49(0)1805-dallmeier

Online via Dallmeier Partner Forum
www.dallmeierpartner.de

Your views are important to us!

If you have any suggestions about how we can improve our service even more, please let us know using the feedback box in the Partner Forum. We will have a look at your ideas and contact you straight away.

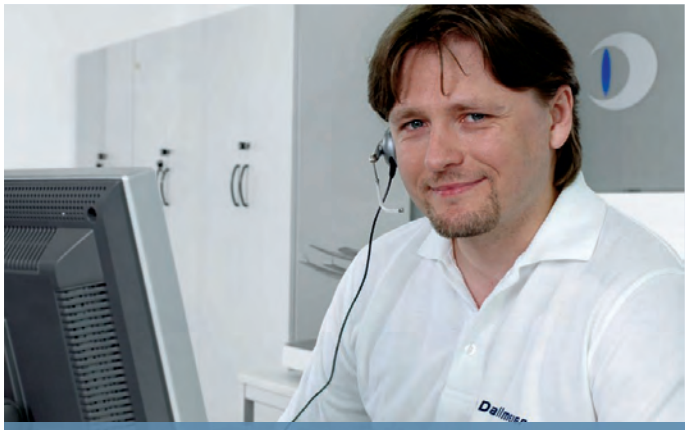
Just send an e-Mail: feedbackbox@dallmeier.com

[1)] 12 cents per minute (including value-added tax) from a German landline operated by Deutsche Telekom.

Online Partner Forum
In addition to the basic information, as a logged-in user, you are able to access many more useful data on every single product. Whether it's manuals, A&E Specs or certifications – it's all there, compact and clearly arranged.

This means, for example, that customers can easily download updates or releases that have been generated from the Internet. Each step is described in both a straightforward and detailed way, meaning that it is child's play for the customer to stay up-to-date at all times. Manuals can also be opened when necessary with just a few clicks.

If the customer needs further clarification on a specific topic or term, the Dallmeier Partner Forum can again be of assistance with its "Knowledge Base". Our support staff assess every individual customer inquiry relating to the installation, maintenance and care of Dallmeier products and solutions and enter them with the solution into a FAQ database that is available online. There are now more than 1,000 entries in both German and English in this database – and more are added every day. Customers can benefit from this knowledge and access it around the clock. All they need to do is enter the required keyword to search the extensive knowledge base and find valuable information to provide a solution. Take advantage of the years of experience and expertise of our support staff.



The Dallmeier support team has the appropriate hardware and software versions to enable them to reproduce every possible situation

Procedure for a support enquiry

The procedures for a support enquiry are defined very precisely to guarantee maximum efficiency and customer satisfaction.

Support enquiries via telephone
If customers wish to make an enquiry or are experiencing problems, they can call a support hotline 24 hours a day on: +491805-dallmeier[1] or +491805-32 55 63[1]

Enquiries will be answered efficiently by trained personnel, wherby the customer's contact details, the serial number of the unit and a brief description of the problem are recorded. The procedure is automatically assigned a unique job number and is documented in a database so that it can be retrieved and analysed at a later date.

The support team receives a message at the same time containing all the relevant information after which they can call the customer back without delay and provide competent support. Generally this does not take longer than 15 minutes.

The solution to the problem is then saved together with the job number so that it can easily be retrieved in the event of subsequent enquiries.

The benefits for the customer are obvious:
- Low telephone costs (you will be called back by Dallmeier free of charge)
- No engaged tones or long waiting times in a telephone queue
- Fast, competent advice in around 15 minutes
- Complete documentation of the procedure for later enquiries

Support enquiries via Partner Forum
The procedure follows a parallel route for enquiries that are sent to the support team via the online form in the Partner Forum. In this case the customer has the additional benefit of being able to add a file attachment, for example the parameter file of the recorder.

When dealing with enquiries the support team also has a resubmit facility. This means that the staff will mark a particular case "for resubmission" and then contact the customer after a certain time to ensure that the solution produced the desired result.

[1] 12 cents per minute (including value-added tax) from a German landline operated by Deutsche Telekom.

Fast and straightforward: Service and spare parts

Dallmeier‘s service philosophy

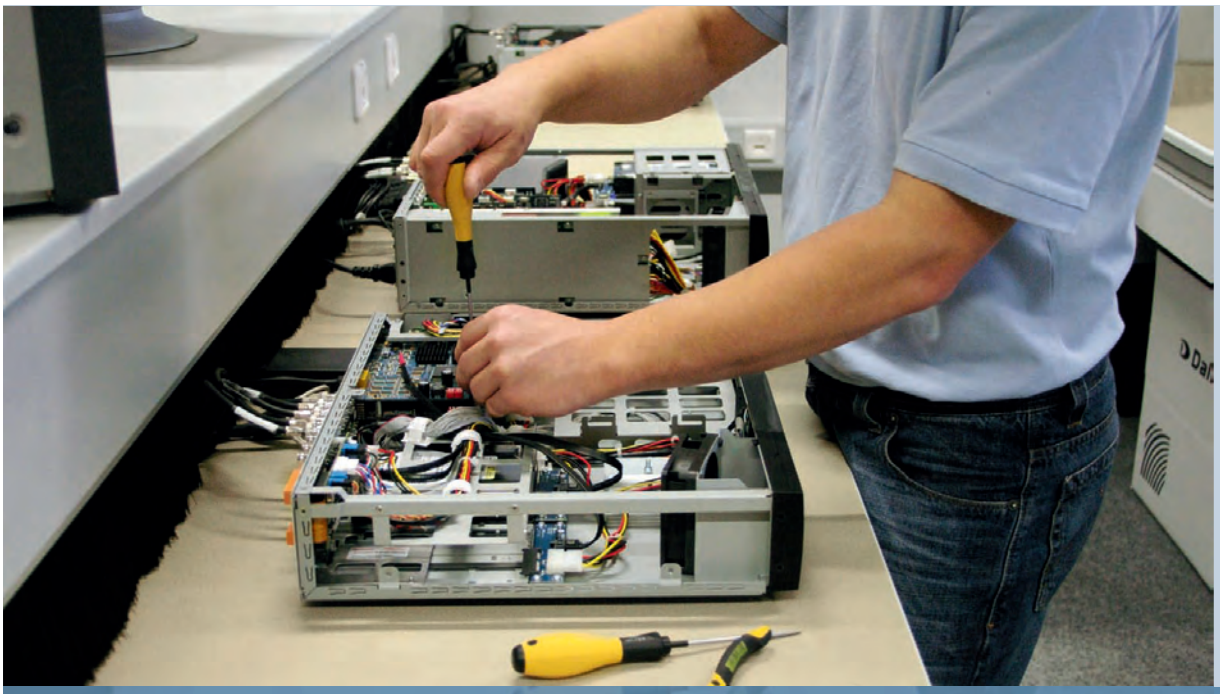
All Dallmeier products are developed and manufactured to the highest quality standards. The tested stability and reliability of all components guarantee a long-term availability of the complete systems. Should a repair of individual components become necessary, it is carried out within a few days. Of course, all spare parts are also available inidividually.

The company‘s commitment to the quality and stability of its products is reflected by the long warranty periods. Dallmeier recorders are usually shipped with a 3 year warranty. During the first three years customers are entitled to make use of warranty repairs and for up to 6 years after the initial purchase they can benefit from the advantages of the unique ServicePlus concept for repairs. Additionally, spare parts are still available even beyond that long period.

During the warranty period: warranty pre-exchange
In the event of faults during the first three months of the warranty period, the customer may obtain a new device. After that period the so-called “warranty pre-exchange” for individual parts can be utilised.

Making use of the warranty pre-exchange, the customer does not have to send the recorder back to Dallmeier but receives advance replacements for defective components, which will be integrated by trained installers. Every installer usually stocks a certain amount of spare parts so that individual components are always ready to hand in order to ensure a quick exchange and minimum down time.

After the warranty period: ServicePlus
Should an out of warranty machine show a fault the customer may utilise the ServicePlus concept via the Dallmeier Repair Centre, which includes professional, quick and cost-efficient repair for a fixed price. The whole process involves exchanging all moving components, reducing the risk of further faults occurring. The customer receives a completely refurbished machine in a condition which is as good as new, with an additional 12 months warranty on the complete system. Furthermore, the fixed price repair includes the possibility of adjusting the hard disk capacity.

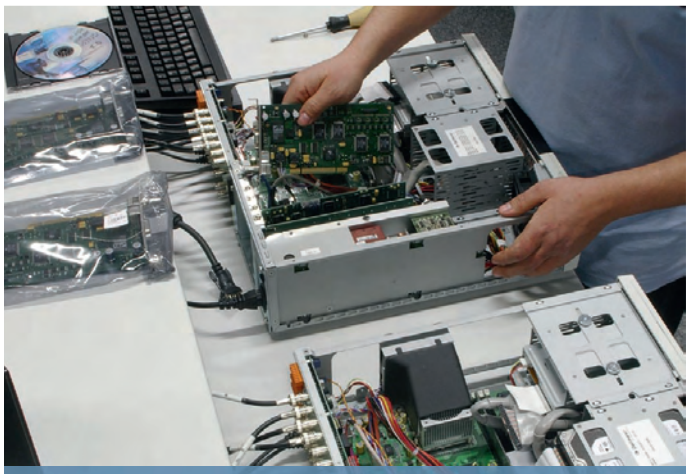


The Dallmeier Repair Centre carries out professional and quick repairs

Service

Advantages of the ServicePlus concept:

- Individual quotations are no longer necessary
- No prior shipment of the recorder in order to prepare an offer
- An immediate offer allows the customer to make an immediate decision
- No costly shipments
- Short response time because recalls for repair are mostly omitted
- If the customer demands more hard disk capacity than currently built-in, a package with the required hard disk equipment is ordered according to the price list
- 12 months warranty – not just on individual components but the complete system.



Repairs are performed within a few days

All spare parts are individually available

Questions?

Our support and sales teams are available to assist you at any time. They have skilled people available to answer questions about our products.

Via Fax
+49 (0) 941-8700 180

Via E-Mail
sales@dallmeier.com

Our advice to installers: Benefit from the sale of spare parts!

All components are individually available.
Benefit from the advantages you get!

If you dispose of the necessary spare parts, you can carry out upgrades or short-term warranty repairs on site yourself (after suitable training). You will have all the replacements you need with you on your first visit at the customer – a second visit will no longer be necessary. This will save time and money and the customer receives fast and professional support.

You will also be able to carry out repairs outside of the recorder's warranty period yourself. Throughout the year Dallmeier offers training for specialist firms as well as specific training programmes for service technicians. If you wish to take part in such a training, you will additionally receive an installation CD, which allows for the installation of a basic hard disk as well as the generation of the required recorder activations.

Tips & hints: service and maintenance
If you want to learn more about the optimal use of replacement components or have questions regarding service and maintenance of Dallmeier products, please contact us.

The Dallmeier Service department always has valuable advice for you.

Skills and Know-How transfer

The Dallmeier training centre

The rapid rate of advance in network technology and the increasing level of networking make it more and more difficult to keep up-to-date. The customer doesn't really have enough time in day to day living to continually update his knowledge. As a manufacturer Dallmeier therefore sees itself obliged to ensure and provide the necessary know-how transfer so that the appropriate specialist knowledge reaches the end-user. After all the end-user can only profit from the knowledge if the information chain is complete.

The training courses are delivered by competent und specialist staff

Multiple use
Because of this there are wide-ranging training courses in the Dallmeier SIT-Point® all year round. The seminars deal not only with hardware and software but also complex subjects such as network systems or practical detection applications.

In order that the participants get the greatest possible benefit from the training courses, the group size is limited to 4 to 6 people who can then get intensively involved in their topic.

Knowledge is not just transferred by interesting lectures, but is very practical. In a specially equipped training room, each participant has his own technical training workstation with appropriate systems and components available. This gives the participants hands-on experience of working with the recorders and "doing open heart surgery". It's not about passive listening but active learning.

The Dallmeier SIT-Point® is not just used as a training centre. It is also used internally for many seminars which prepare the sales staff for their customer visits, continuously bringing them up-to-date with the latest technology. Skill, practical knowledge and advice – all guaranteed right from the start!

Optimal integration
Dallmeier made a conscious decision to set up a separate training centre – the training staff can then concentrate fully on the customers and are not distracted by daily business. However SIT-Point® is nevertheless fully integrated into the life of the company. It is the experience of the training staff which provides valuable guidance on how products and solutions could be made even better.

SIT-Point® – Security | Information | Technology

Speakers attend to the participants

Skills and flexibility
Whoever they are for – beginners or advanced – the training courses are delivered by competent, specialist staff. Practising consultants, such as the head of the development department for example, can give thorough answers to questions. It is also important to Dallmeier that the training is focussed on target groups. All training is tailor-made and deals with the particular topics which are requested.

Agreeable ambience
The training courses take place in a pleasant atmosphere in a wellequipped, up-to-date training centre. Congenial group sizes and state-of-the-art systems all ensure that you can make best use of our seminars.

Professional training in state-of-the-art facilities

The current seminar programme and the application form are both on our website at:
www.dallmeier.com
under “events/seminars”

Questions?

Our support and sales teams are available to assist you at any time. They have skilled people available to answer questions about our products.

Via Fax
+49 (0) 941-8700 180

Via E-Mail
sales@dallmeier.com

Awards and certifications

Quality and reliability

With the many international certifications and awards that our products have received, we continue to prove to our customers that we are on the right track with our "Quality first" philosophy.

BG-PRÜFZERT
Sicherheit geprüft
tested safety
BGV Kassen

The **BG-Prüfzertifikat "UVV-Kassen"** guarantees a high-quality standard of digital recording systems for the use in banks and financial institutions.

Various requirements have to be met for the UVV-Kassen certification:

- Possibility to separately save suspicious recordings
- Sufficient memory capacity has to be available
- Pictures cannot be deleted or overwritten unintentionally
- It has to be guaranteed that nobody unauthorised can view, change or copy pictures to another data carrier
- The system has to provide the opportunity to export pictures to ensure that after a hold up the police are able to save pictures immediately and without any loss
- Date and time have to be saved together with the picture's data to ensure that the saved data can be used in court
- Cameras must fulfil the stringent requirements regarding colour fidelity, contrast, sharpness and light sensitivity.

LGC Forensics

KALAGATE

LGC Forensics, formerly Kalagate, checks if the pictures recorded by the digital CCTV system meet the requirements decisive for an argumentation in court:

- The pictures' quality has to meet certain criteria
- The recording systems have to be designed fraud-resistantly, e.g. with an electronic water mark, the authenticity of the picture can be assessed when copying data to CD
- Encryption to protect against external access to the "closed" system and to avoid extraneous manipulation

Apropos: Certificates issued by Kalagate remain valid after the takeover by LGC Forensics. According to LGC there are currently no plans to reissue existing certificates.

Stringent test criteria – for the benefit of the customer
Each purchaser of a VdS-approved device derives benefits from higher quality specifications in the following areas:

- Resistance to electro-magnetic interference
- Mechanical influences
- Sabotage protection
- Integration in alarm system
- Climatic tolerance and endurance
- Power supply stability
- Picture quality (UVV-Kassen)

In 2002, Dallmeier received the world's first **VdS certificate** for a digital video recorder with its DMS 180 III model. With the VdS CertiSec Pack® and the DMS series "In Memory of Leonardo" Dallmeier again proves that it has kept its innovative strength and competence and that security and reliability are the top priorities in the development of the products.

CertiSec Pack® – first VdS certified video surveillance system
For the first time ever worldwide, the loss prevention company VdS GmbH, a company of the German Insurance Association (GDV), has not just certified an individual CCTV product, but a complete video surveillance system. The CertiSec Pack® is certified as a category I, class C video surveillance system. Those kinds of systems are especially proper for monitoring high risks, which means that the system has an increased protection against sabotage, damage and failure of security-relevant functions, which are also constantly monitored.

The **DIN EN 50130-4** has existed since 1995 and belongs to the EMC product family standard (electromagnetic compatibility) for alarm systems, which includes closed circuit television for security use.

DIN EN 50130-4

The DIN EN 50130-4 states that the certified devices – in addition to the standards mentioned in the CE declaration of conformity – meet the increased requirements for interference resistance of system parts used in closed circuit television for security use.

Useful information:
The use of this standard has been compulsory since 01/01/2001, for example when recording systems are integrated in closed circuit television for security systems. If a user operates systems without this permission, they may not be covered by insurance in the event of damage, because the systems were not state-of-the-art.

Dallmeier achieved the **ISO 9001 certification** for its quality management. This confirmed that Dallmeier, as developer and manufacturer, fulfilled the requirements of the world's most widely used standard for quality management. The ISO 9001 focuses particularly on customer satisfaction and process management as well as continuous improvement.

ISO 9001 BUREAU VERITAS Certification

New for old
Recorder exchange offer

Keep abreast of changing technologies

Time for a change, switch to the 4th generation

More performance with price advantage when returning your old 2nd or 3rd generation recorder

Our products are trend-setters in the world of digital video surveillance. They are backed by continuous development and innovation which improves their performance and functionality. Since hardware does have a natural life cycle, and in order that you can benefit from the advantages of the latest generation devices – while at the same time avoid expensive, age-related hardware failures and repairs – we are making a "new for old" offer. You have the opportunity to bring your system right up-to-date at a special price.

The Dallmeier 4th generation recorders

4th generation digital recorders
with convincing advantages

Choose the future
Change to the 4th generation

We are offering our distributors and customers the opportunity to exchange their old 2nd or 3rd generation Dallmeier recorders for the latest, future-proof devices – and at a special price.

A leader then as now
In 1999 Dallmeier recorders were leading the way with up to 18 camera inputs, 10 GB hard disks and LAN/Ethernet ports.

More functions with greater ease of use, higher performance capacity and extra security are good reasons to move to 4th generation products.

Besides, after four years in constant use the chance of a high quality IDE hard disk failing is now about a 30%.

Open platform
CCTV/IP integration solutions

Open Platform for
3rd Party Integration

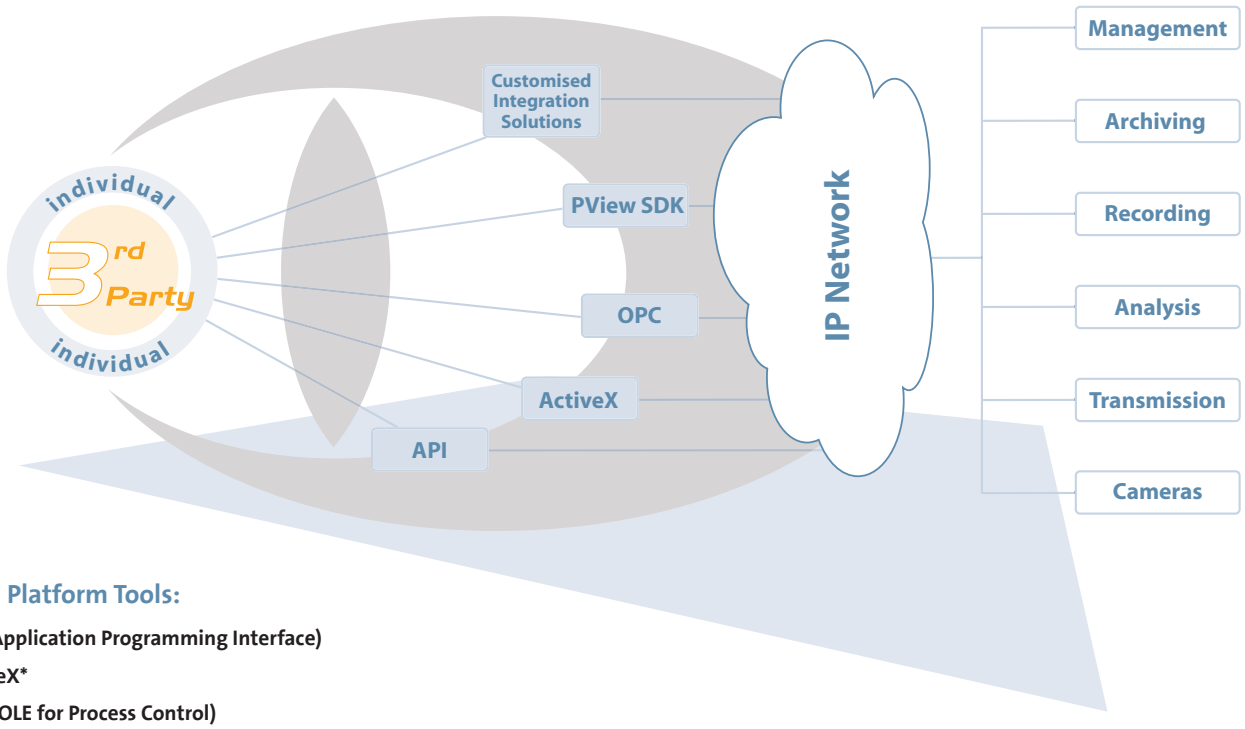
The high quality and exceptional reliability of the Dallmeier products have made them the solution of choice for a variety of international, high-profile CCTV/IP surveillance projects. However, for more than 25 years now, Dallmeier products and solutions have likewise been internationally renowned for enabling state-of-the-art systems that always remain open and ready for any kind of integration purpose.

Every Dallmeier CCTV/IP solution is principally designed to be able to serve as an open platform for third-party integration. Thus, a Dallmeier surveillance system always remains open for any kind of adjustment or expansion and offers long-term investment protection.

Integration into third-party systems
From cameras to recorders and storage systems right up to video management, all Dallmeier products can be integrated into any kind of third-party systems.

Integration of third-party systems
Likewise third-party systems or individual components can of course be integrated into existing Dallmeier solutions. The integration process is carried out by using either standard or customised communication protocols, so-called "Open Platform Tools", or else through tools that are specifically developed for the customer. The latter are then part of an integration solution that is consistently designed to meet customer requirements.

Open Platform for 3rd Party Integration:



Open Platform Tools:

- **API (Application Programming Interface)**
- **ActiveX***
- **OPC (OLE for Process Control)**
- **SDK (Software Development Kit)**

The list above is a selection of tools; for specific integration requirements please contact us by sending an email to: info@dallmeier.com

Description of the interfaces

1. ActiveX*
The Dallmeier control element for ActiveX is a standardised interface for easy integration of Dallmeier IP cameras, MicroStreamers, DIS-2 StreamerPro encoders as well as DMS and DLS recorders into a third-party software or into a browser as part of a Microsoft operating system. The different files of the ActiveX packages are usually installed under C://Programmes/Dallmeier/ActiveX. The third-party software accesses these DLLs in order to establish a connection with the Dallmeier products. The connection is necessary to enable the data transfer, decoding and image display.

2. API
The Dallmeier control element for API (Application Programming Interface) is an interface that enables the integration of Dallmeier IP cameras, MicroStreamers, DIS-2 StreamerPro encoders as well as DMS and DLS recorders into a third-party software as part of a Microsoft or Linux operating system. The various libraries (DLL / SO) are usually saved in the working folder of the third-party application. Compared with ActiveX the third-party software should preferably be programmed in C++. It integrates the DLLs into the software. That way it can establish a connection with the Dallmeier products and enable the data transfer, the decoding and the image display. Compared with the implementation of ActiveX the process is slightly more difficult, however, it also offers more possibilities..

3. DaVid
The DaVid protocol enables the control of Dallmeier IP cameras, Micro Streamers, DIS-2 StreamerPro encoders as well as DMS and Wavelet recorders via the network or the serial interfaces. Often, the DaVid protocol is used to send commands from a matrix to a recording system. The PView software and the DNI interfaces also send the commands to the recorder via DaVid.

4. SDK
PView SDK is an interface that allows for the integration of the PView software into a third-party software on a Microsoft operating system. It enables the control of PView as well as data enquiries and thus allows for the control of Dallmeier IP cameras, MicroStreamers, DIS-2 StreamerPro encoders as well as DMS and Wavelet recorders via the network.

When do I have to use which interface?

Dallmeier offers various interfaces to enable the integration of Dallmeier products into third-party systems. Which interface is suitable for a specific project depends on the functional requirements and the conditions of the IT environment.

Conditions of the IT environment

Which interface is needed for which product?	API	ActiveX*	DaVid	SDK
Wavelet recorders			X	X
IP camera / MicroStreamer	X	X	X	X
DIS-2 StreamerPro	X	X	X	X
H.264 recorder (DMS / DLS)	X	X	X	X
Which types of software are the interfaces suitable for?	**API**	**ActiveX***	**DaVid**	**SDK**
Browser (IE)		X		
Third-party software	X	X	X	X
Which programming language is used?	**API**	**ActiveX***	**DaVid**	**SDK**
C++	X	X	X	X
VisualBasic		X	X	
c#		X	X	
Javascript		X		
Which operating system can be used?	**API**	**ActiveX***	**DaVid**	**SDK**
Linux	X		X	
Windows	X	X	X	X

Functions

Video	API	ActiveX*	DaVid	SDK
Live image display	X	X		X
Camera control (PTZ cameras)	X	X	X	X
Playback	X	X		X
Search (expanded search, SmartFinder)	X	X	X	
Export (Saving of the current picture as JPEG on HDD)	X	X	X	X
Backup (Saving of recordings on HDD)	X	X		X
Mirror (All displayed images saved on HDD)	X	X		X
Audio	X	X		X
Reception of the decoded image in raw format (YUV)	X			
Configuration	**API**	**ActiveX***	**DaVid**	**SDK**
Encoder (Video stream)[1)]	X	X	X	
Image sensor (Image parameters, e.g. brightness)[2)]	X	X	X	
General features of the devices (Recording, network, system, interfaces)			X	
Events	**API**	**ActiveX***	**DaVid**	**SDK**
Switch relay			X	
Receive contact information			X	
Receive event information			X	

[1)] Only for DIS-2 encoders [2)] Only for UTC ready Dallmeier cameras

High-definition in security applications

The HD label does not necessarily imply the same quality in all cases! Did you know, for example, that you can only fully benefit from the advantages of an HD camera, if you also have appropriate compatible transmission and recording devices?

Therefore, you should trust in a partner who develops products that are not meant for the mass market of consumer electronics, but rather destined for the professional security market with the highest demands in terms of quality and reliability!

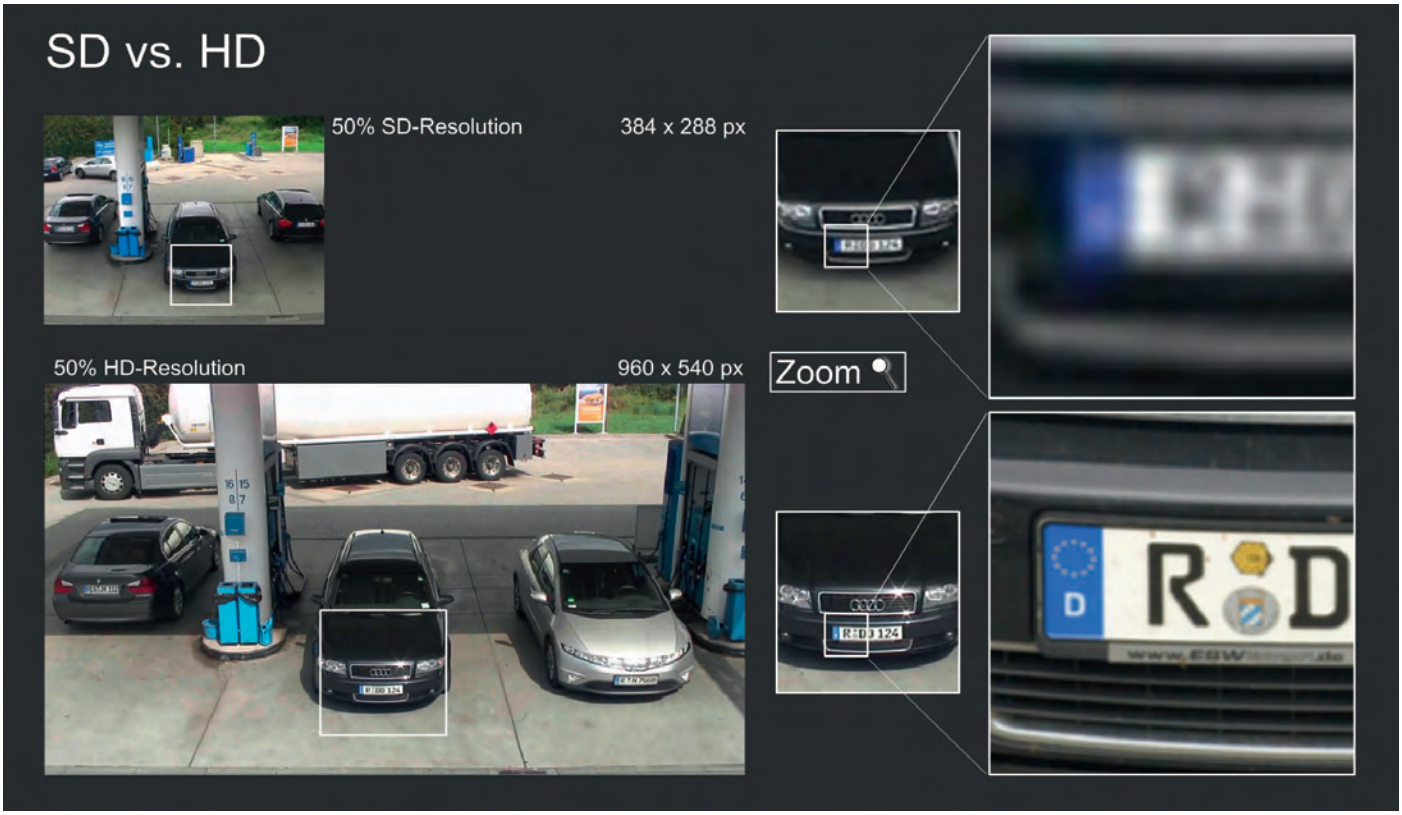
HD and *Cam_inPIX*®: An unbeatable combination
Using HD technology you rely on a sustainable high-resolution video standard with 16:9 image format. Nevertheless you don't have to give up the proven advantages of the Dallmeier ***Cam_inPIX***® technology: Dallmeier HD cameras are characterised by a high dynamic range and an outstanding control mode. The result is highest colour fidelity and richness of detail, while the bit rate still remains low.

Full High-Definition cameras from Dallmeier are characterised by:

- **1920x1080 native resolution**
- **Best zoom quality through unique SmartZoom functionality, because more detail means higher security!**
- **Made in Germany: Developed and manufactured by Dallmeier**
- **Specifically developed for security applications**
- **Highest image quality owing to *Cam_inPIX*® technology**
- **H.264 standard for highly efficient video compression**
- **Open API for an easy integration into third-party systems**
- **Independent testing institutes confirm highest quality standards: DIN EN 50130-4, CE, FCC, UL, ACA, CB**

Complete End-to-End HD systems
The best HD camera is of no use, if the quality can't be transmitted, recorded, or archived.
Therefore, Dallmeier offers complete HD End-to-End solutions. **Watch out for the HD logo throughout our catalogue!**

Discover new realms of security technology with Dallmeier!



Complete
End-to-End HD systems

High Definition – a step ahead of Megapixel!

HDTV broadcast systems are defined by:

- **Number of lines** (frame size):
  e.g. 1280 x 720 or 1920 x 1080,
  combined with i or p, depending on the

- **Scanning system:**
  i = interlaced (image build-up by two separated, consecutive fields)
  or
  p = progressive scan (image build-up with progressive scan method)

- **Frame rate:**
  is defined by the number of frames per second (fps): 25 or 30 frames
  (sometimes indicated as 50 or 60 fields respectively

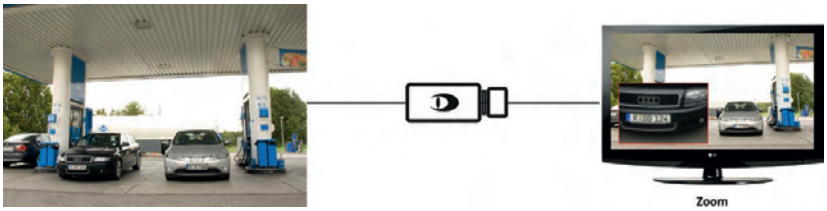
Number of lines Scanning system / Frame rate

1080i/25		720p/50	
1080	lines	720	lines
i	= interlaced	p	= progressive scan
25	frames	50	frames

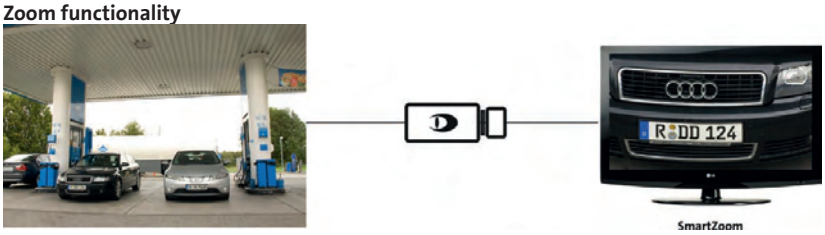
SmartZoom functionality

The SmartZoom functionality allows for the recording and streaming of a certain area of an image (picture of interest). The relevant image area is cropped from the overall image, which reduces the size of the image without manipulating the resolution. Therefore, less storage capacity is required since unnecessary image material is not saved. Additionally, this means that more images can be transmitted per second.

SmartZoom functionality



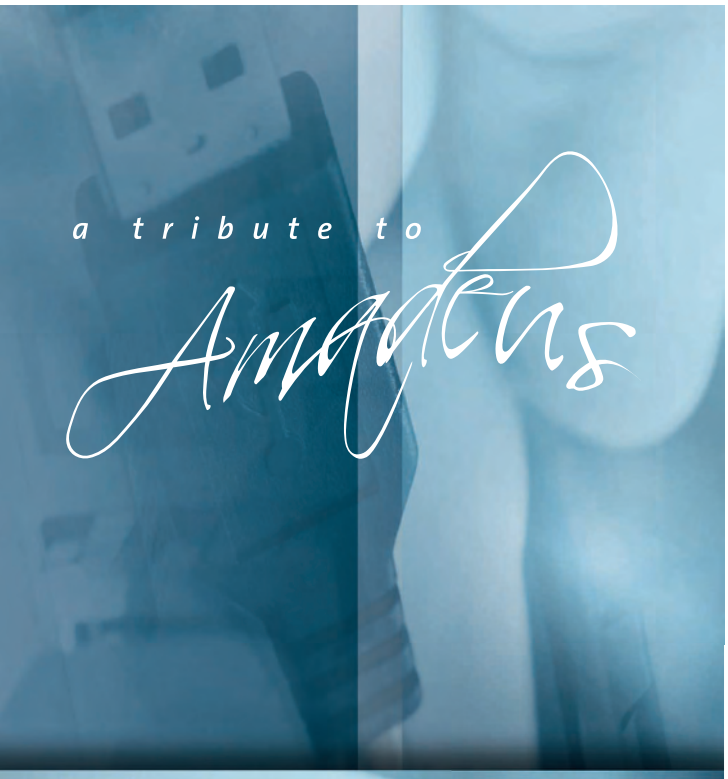
Zoom functionality



You can watch current demo video about HDTV High-Definition on our website at www.dallmeier.com

VideoIP range

"a tribute to Amadeus"



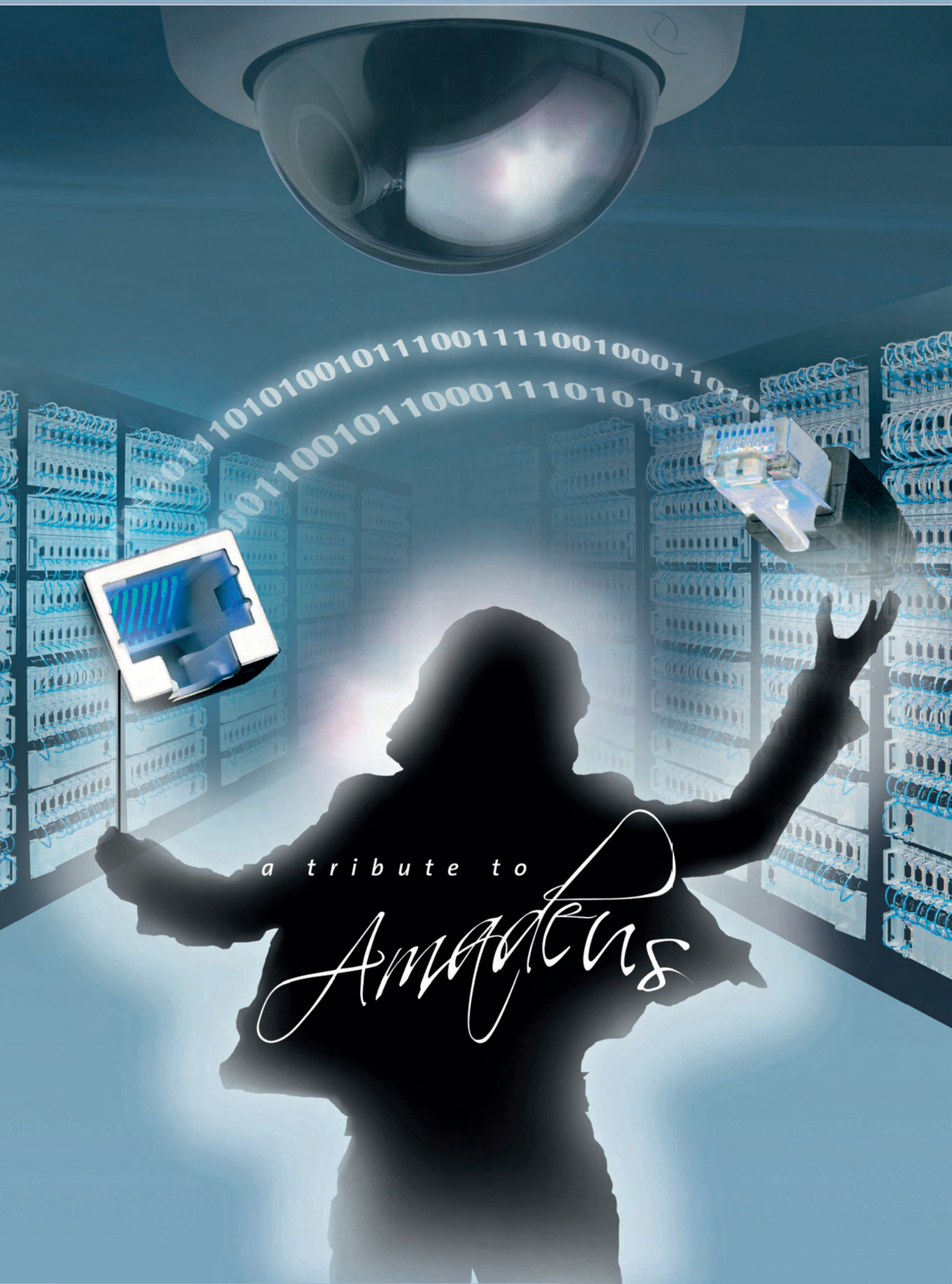
Wolfgang Amadeus Mozart

Gifted with an incredible amount of talent and filled with unlimited passion, he composed operas, concerts and symphonies. His works were elaborate, harmonic and perfectly orchestrated. Whoever saw him play was enthralled by his prowess. Of course, there were already numerous outstanding compositions before his day, but Mozart's work eclipsed all previous musical creations. The genius of his pieces however did not lie in them being particularly complex, but rather in their ingenious simplicity.

In that regard professional IP video networks may well be compared to Mozart's masterpieces. The principle that great ideas and innovations do not necessarily have to be complicated was incorporated in the development of the new Dallmeier IP range "a tribute to Amadeus". High-quality products and solutions which are nevertheless understandable and comprehensible for everyone.

Just as Mozart through perfect composition and brilliant instrumentation, created an ingenious body of work, individual high-value IP components can be used to realise top-quality video network solutions. Like instruments in an orchestra, devices operate in perfect harmony, controlled by the operator, who, like a conductor, keeps things firmly in hand. As with an orchestra whose instrumentation may change, the arrangement of the Dallmeier IP solution remains variable and flexible. Its composition can range from a duo of camera and streamer to a large ensemble of different elements.

Dallmeier's high requirements regarding image quality and reliability also apply when it comes to IP solutions. With the IP range "a tribute to Amadeus" the high standards of CCTV applications combine with the benefits of pure IP solutions. The best of both worlds, a star-studded ensemble with guaranteed success!


a tribute to
Amadeus

VideoIP range

Cameras

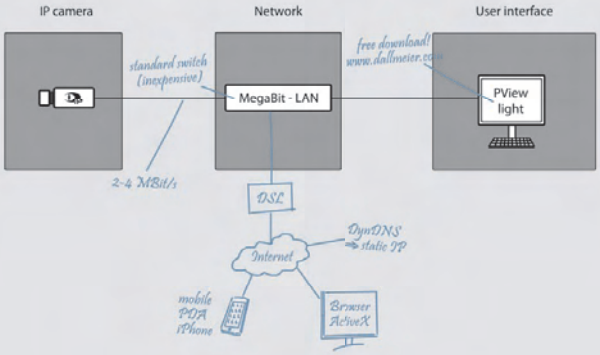
Cameras form the first element of a complete system and therefore have to be chosen particularly carefully. For one thing is clear: even the best recorder can only record high-quality images if the camera provides them. A chain is only as strong as its weakest link.

Dallmeier has used its many years of experience to produce own analogue, network and PTZ cameras. In doing so Dallmeier has banked on the latest Pixim DPS* technology and used it as the basis for the in-house development of ***Cam_inPIX***® technology.

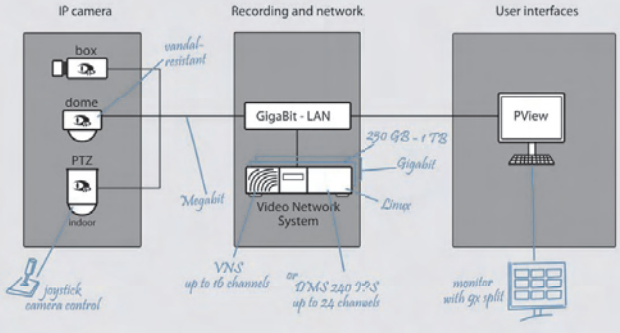
Streamers, encoders, decoders

In many cases, there is already an analogue surveillance system in place with components which customers want to continue operating. The challenge is therefore to make existing infrastructure IP-ready. In order to facilitate this Dallmeier has developed the MicroStreamer which enables easy and straightforward integration of analogue cameras into a network. The MicroStreamer can receive analogue audio and video signals via different inputs (e.g. BNC). After digitising or encoding, data can be transmitted over a network in various formats, for instance MPEG-2, MPEG-4 or MJPEG. Transmission is done in real-time, either to one (unicast) or more (multicast) IP addresses.

EasyEntry Solution



Multi-channel Solution



Recorders and NVRs

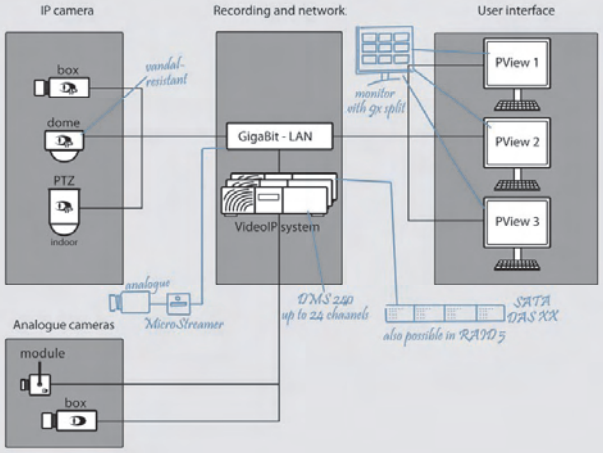
In the world of analogue technology, a recorder was often used as a stand-alone device as well. IP recorders are seen as part of a network of various components. That is why, in this context, people refer to them as Network Video Recorders (NVR). Dallmeier has a suitable device for any requirement. The DMS 240 model range with up to 24 channels, and the recipient of several international awards, leaves no desires unaddressed. One new innovation is the compact VNS production series with up to 16 IP channels. In terms of quality the VNS is on a par with the DMS – just its number of channels is more limited

Video Management

Network technology allows the user to spread recorders and IP cameras all over the building and the entire area, which offers a high degree of flexibility when planning the CCTV system. The video management system is simply integrated into the network, and can be used to administer the installation's recorders and cameras, even across wide area networks

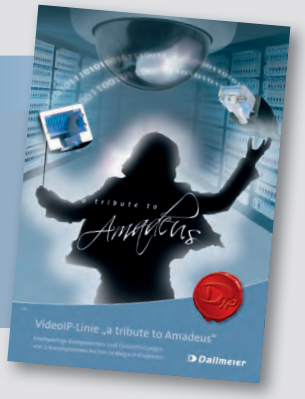
Are you looking for convenience?
The Video Management Centre VMC-1 "Eagle" is modular in structure and therefore flexible.

Hybrid-Solution



Good to know!

More detailed and in-depth information on the topic of VideoIP can be found in our "a tribute to Amadeus" brochure. You can order it online at www.dallmeier.com



VNS 1

Available shortly!

The VNS 1 is a 1 channel audio and video streamer with recording capability. It is able to receive, via an Ethernet network, audio and video streams in different encodings, record and playback them and output them in real time as a stream. The VNS 1 is a stand-alone streamer. The compact and robust design of the streamer allows for a flexible use of the device, regardless of the location. The VNS 1 is furthermore designed for the installation and operation in a 19" module rack.

- 1x IP based video channel
- Simultaneous real-time recording, streaming and playback
- Supported video formats: MPEG-2/-4 H.264 1)
- Supported audio formats: MPEG-1 Layer 2, G.722 1)
- Bit rate up to 16 Mbps and frame rate up to 25 fps
- Resolutions: SD, HD, (720p, 1087oi, 1080p)
- Evaluation with SeMSy® or PView via Ethernet
- Integrated management software PView Light
- Integrated motion detection
- Changeable hard disk: up to 2x 3,5" HDDs (optional)
- Configuration and firmware update through web browser via Ethernet
- Linux operating system on Flash memory
- Integrated hard disk
- DIN EN 50130-4 compliant

1) In development

Variants

008.007.012.101	VNS 1 with 1x 120 GB HDD 1x IP based video channel Please note: this product is only available on request!

Options

002.001.390	19" module rack, (L390 mm x 3HU) for the installation of up to 10 single devices, incl. power supply unit and its depositing rack
000.214	19" bracket, for up to 4 units (1HU)

VNS 16

The VNS 16 is an audio and video network system with 16 IP based channels for streaming, recording and playback of various video channels. The VNS series is designed for both stand-alone or client/server applications. Using a release code the basic version with 2 IP based channels can be activated by blocks of another 14 IP based channels at a time (up to a total maximum of 16 IP based channels).

- Up to 16 IP based video channels (SD/HD)
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, remote access, live display, playback [1)]
- Supports cameras by third-party manufacturers, including megapixel and high-definition cameras
- Supported video formats: MPEG-4, MJPEG, H.264 [2)]
- Supported audio formats: MPEG-1 Layer 2, G.722 [2)]
- Resolution: SD, HD (720p, 1080i, 1080p), up to 8MP
- Bit rate up to 3Mbps
- Frame rate per channel up to 12.5 fps at all resolutions
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated software for administration and configuration
- Live access via web browser
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Motion detection and IP Finder for Dallmeier IP cameras integrated
- EasyChange functionality in case of hard disk failure
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

1) Only video recording, live display and playback only via PView Light or PView

2) In development

Variants

008.006.000.002	VNS 16 without HDDs 2x IP based video channels Please note that HDDs must be ordered separately!

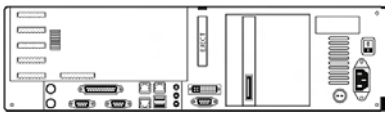
Options

000.120	19" bracket, for a 2HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.338	Filter pad, 2HU (5 pieces)
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

240.000IP02	Activation of additional 2 IP based channels (SD/HD)
240.000IP04	Activation of additional 4 IP based channels (SD/HD)
240.000IP08	Activation of additional 8 IP based channels (SD/HD)

DMS 240 IPS



The DMS 240 IP is an audio and video network system with up to 24 IP based channels (thereof 16 HD channels) for streaming, recording and playback of several video channels. The basic version with 8 IP based channels can be expanded by 8/16 IP based channels with an activation code.

- Up to 24 IP based video channels (max. 16 HD video channels)
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, remote access, live display and playback 1)
- Supported video formats: MPEG-4, MJPEG, H.264 2)
- Supported audio formats: MPEG-1 Layer 2, G.722 2)
- Bit rate up to 4 Mbps
- Resolutions: SD, HD (720p, 1080i, 1080p) up to 8 MB
- Frame rate per channel up to 25 fps
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated motion detection for Dallmeier IP cameras
- Live browser access
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- 12V output for the external storage expansion DAS-4 Eco
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

1) Live display and playback only via PView Light or PView

2) In development

Variants

240.004.000.008	DMS 240 IPS without HDDs 8x IP based video channels Please note that HDDs must be ordered separately!
240.004.000.016	DMS 240 IPS without HDDs 16x IP based video channels Please note that HDDs must be ordered separately!
240.004.000.024	DMS 240 IPS without HDDs 24x IP based video channels Please note that HDDs must be ordered separately!
240.004.100.308	DMS 240 IPS, ready for storage with 2x 500 GB HDDs 8x IP based video channels
240.004.100.316	DMS 240 IPS, ready for storage with 2x 500 GB HDDs 16x IP based video channels
240.004.100.324	DMS 240 IPS, ready for storage with 2x 500 GB HDDs 24x IP based video channels

Options

000.194	19" bracket, for a 3HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
010.240	DVI digital output
100.030	FC interface (fiber optic), for connecting DAS-303 (see storage systems), only ex factory
100.090	SATA interface, for connecting DAS-4 Eco (see storage systems), only ex factory
100.092	Multi Display Board, for the use of PRemote advance, incl. PRemote advance activation
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

Activations

100.101.FS	ATM activity survey
240.000IP02	Activation of additional 2 IP based channels (SD/HD)
240.000IP04	Activation of additional 4 IP based channels (SD/HD)
240.000IP08	Activation of additional 8 IP based channels (SD/HD)
240.000IP16	Activation of additional 16 IP based video channels (SD/HD)

Overview VideoIP network systems

VNS 16

DMS 240 IPS

Standard / max. video channels	2x IP based video channels	8x / 24x IP based video channels
Supported cameras	Dallmeier and third party IP cameras incl. megapixel and high-definition cameras	Dallmeier and third party IP cameras incl. megapixel and high-definition cameras
Operating mode	PentaplexPlus: video recording, streaming, live display, playback, remote access (live display and playback only via PView Light or PView)	PentaplexPlus: recording, streaming, live display, playback, remote access (live display and playback only via PView Light or PView)
Recording mode	Permanent, motion, contact, timer	Permanent, motion, contact, timer
Display via PRemote advance	-	Live display: up to 16x (Multi Display Board required) Playback: 1x (Multi Display Board required)
Split display via PView	1, 4, 9, 13, 16	1, 4, 9, 13, 16, 25
Video formats	MPEG-4, MJPEG (H.264 in development)	MPEG-4, MJPEG, (H.264 in development)
Audio formats	MPEG-1 Layer 2 (G.722 in development)	MPEG-1 Layer 2, (G.722 in development)
Recording resolution	SD, HD (720p, 1080i, 1080p), up to 8 MP	SD, HD (720p, 1080i, 1080p), up to 8MP
Display resolution	D1, 4CIF, Half D1, 2CIF, CIF, QCIF	D1, 4CIF, Half D1, 2CIF, CIF, QCIF
Frame rate at all resolutions		
Per IP based channel	6.25 / 12.5 fps	6.25 / 12.5 / 25 fps
Bit rate per channel		
With up to 8 activated IP channels	-	Up to 4 Mbps
With up to 16 activated IP channels	Up to 3 Mbps	Up to 3 Mbps
Integrated / optional functions		
Management software	PView 7 Light	PView 7 Light
Configuration software	DMS NetConfig	DMS NetConfig
With up to 24 activated IP channels	-	Up to 2 Mbps
Motion detection	Integrated	Integrated
IP-Finder	Integrated	Integrated
Track modes	Standard, automatic, manual	Standard, automatic, manual
Activation additional video channels	Up to 14 IP based video channels	Up to 16 IP based video channels (in total 24 channels)
Interfaces		
Video outputs	-	Only for playback: 1x VGA, 1x DVI-I (optional)
Aux-Line IN/Mic IN/Audio OUT	1x 3.5 mm phone jack / - / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack
Ethernet	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN / relay OUT	22x, each 4 functions / 5x, configurable as NO or NC	30x, each 4 functions / 5x, configurable as NO or NC
Serial / parallel / USB / PS/2	2x RS 232, 1x RS 485 / - / 5x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 (optional) / 1x IEEE 1284 / 3x USB 2.0 / Mouse, keyboard
Further interfaces	1x VGA (only for local configuration, no video display possible)	-
Further specifications		
Exchangeable hard disks	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)
Max. storage capacity	Up to 4 TB	Up to 4 TB
Video norm	PAL / NTSC	PAL / NTSC
Power consumption	Max. 60 W	Max. 130 W
Voltage supply	12V DC +/-5 %	110/230V AC +/- 10% (50/60 Hz)
Thermal power	Max. 204 BTU/h	Max. 444 BTU/h
Dimensions (W x H x D)	Approx. 425 x 88 (2HU) x 384 mm	Approx. 425 x 133 (3HU) x 445 mm
Operating temperature	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended
Humidity	5 - 70 % RH non-condensing	5 - 70 % RH non-condensing
Atmospheric load	Dust-free	Dust-free
Weight	9 - 10 kg	10 - 12 kg
Fan	2x with automatic speed adaptation	3x with automatic speed adaptation
Operating system	Linux	Linux
Languages	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)
Approvals/certifications	CE, FCC, ACA, UL, CB, DIN EN 50130-4	CE, FCC, UL, ACA, CB, Kalagate, DIN EN 50130-4

Cameras

Convincing technology wit finesse

With the innovative sensor concept of *CamInPIX*® technology, the picture information of each individual pixel is converted digitally at the point of capture and processed in the most optimal way. Therefore, even situations with a great range in contrast can be recorded and documented in picture qualities previously unseen.

With the innovative sensor concept of ***CamInPIX***® technology, the picture information of each individual pixel is converted digitally at the point of capture and processed in the most optimal way. Therefore, even situations with a great range in contrast can be recorded and documented in picture qualities previously unseen.

With this UWDR technology (Ultra Wide Dynamic Range), the Dallmeier cameras have the advantage over all previously known processes in that they can display considerably more details in shaded and very bright sections of a picture. The latest generation of high-resolution sensor technology also provides clear, high-contrast and colour-true pictures without any blooming or smearing even in the most difficult lighting conditions, e.g. against strong backlighting, in conjunction with the software developed especially for the security field.

Convenient factory settings enable easy, quick and economical installation of the cameras in any surveillance situation combined with extremely user-friendly menu control. With the exclusive Dallmeier UTC protocol (Up The Coax), the ***CamInPIX***® cameras can be controlled directly via the video cable of a Dallmeier digital recorder or a PView Station. The ability to switch between the PAL and NTSC signal formats enables you to use the cameras across the globe in any video surveillance system.

Combining them with the Dallmeier picture transmission and picture recording technologies results in a complete system with perfectly coordinated individual components in which the “components using the picture” (DVR, PView-PC, etc.) obtain dynamic control of the “components creating the picture” by means of UTC.

Ideal for any application area

CamInPIX® is the first chip technology that was not originally developed for the mass market of consumer electronics, but rather specifically for security applications. It provides you with an ideal solution for any area of application:

- Petrol stations
- Banks
- Logistics
- Industry
- Retail
- Casinos
- Airports
- Car parks and traffic
- Train stations
- City surveillance
- etc.

Revolutionary

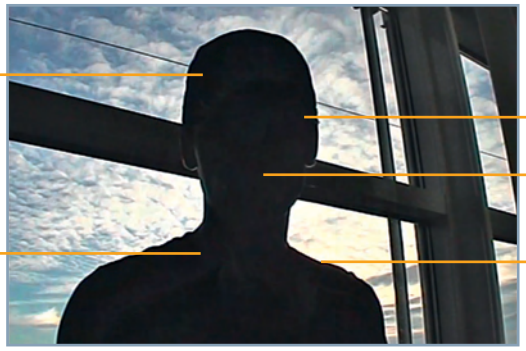
CamInPIX® Technology

Description of offender

WANTED

unknown

Clothing: unknown



Person:
slender, possibly male,
complexion unknown

Age: unknown

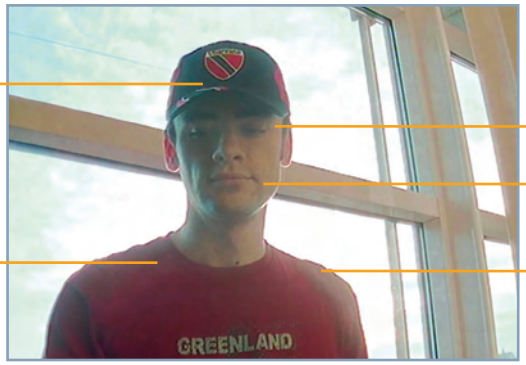
Particular characteristics:
none

High-End CCD camera

WANTED

Baseball cap with
the flag of Trinidad & Tobago

Clothing: red T-shirt with the
label “Greenland”



Person:
male, bright complexion,
no beard

Age: approx. 22 - 28 years

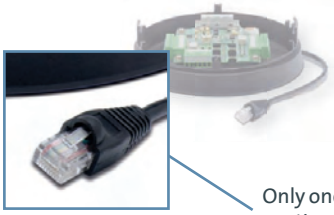
Particular
characteristics:
No piercings, no facial tattoos

CamInPIX®

DOMERA®

PTZ dome system DOMERA®

High Definition – a step ahead of Megapixel!



Only one single cable connection for all interfaces.

Extremely fast and simple exchange of the mechanics through Push&Click function at the bottom of the camera.

The advantages of the PTZ dome system DOMERA®:

BackBox & BackPlate interface system
The BackBox & BackPlate interface system offers huge advantages and a high flexibility regarding planning, installation, maintenance and upgrades. This means that initially during the planning, only the camera locations need to be determined. Zoom factors need not be decided upon until after the installation of the BackBox (in-ceiling) or the BackPlate (surface). If required, changes can even be made after the initial setup tests without any problem through an exchange of the dome mechanics, which only takes a few seconds.

Dallmeier PTZ protocol DCCP
Current standard protocols or, optionally, the Dallmeier PTZ protocol DCCP which offers a variety of additional functions are supported.

Dallmeier UTP
Simple cabling of the analogue models of the DOMERA® series because power supply, video signal and RS485 interface all run over one cable, for example Cat5.

Update capability
The update capability ensures that the camera functionalities are always kept up to date and hence guarantees a long-term use of the DOMERA® cameras.

Push&Click function
The Push&Click function allows for a quick exchange of the mechanics during maintenance or upgrade work. After the exchange the cameras do not need to be configured again. Presets and other configurations remain in the memory of the BackBox or BackPlate respectively and are immediately active again.

High speed and positioning accuracy
Owing to high-quality mechanics (panning up to 420°/second) the DOMERA® cameras can be controlled extremely fast and positioned extremely precisely.

Highest resolution and pin sharp images
DOMERA® cameras use the latest DSP technology (Digital Signal Processing) and therefore provide pin sharp images even under extreme lighting conditions (horizontal resolution: 530 TV-lines).

High-quality PTZ dome cameras "made in Germany"
DOMERA® cameras are developed and manufactured in Germany. Prior to shipment they undergo the most stringent quality controls and acceptance tests – all according to the motto: Quality Made by Dallmeier!

With the new PTZ dome series DOMERA® Dallmeier has developed a flexible high-speed PTZ dome system.
The modular concept allows for a maintenance-friendly and cost-efficient planning and installation of the system.

3rd Party

All models are characterised by:
- high-performance Pan/Tilt/Zoom mechanisms
- integrated motion detection
- ICR function for Day/Night switching
- auto focus with manual correction

The choice is yours:
- Analogue, IP or HDTV
- in-ceiling, surface or weather-proof variant
- different zoom factors

Open Platform Tools:
- API (Application Programming Interface)
- ActiveX
- OPC (OLE for Process Control)
- SDK (Software Development Kit)

cost-efficient

DIN EN 50130-4
checked

investment protection

maintenance-friendly

modular

surface mount



DDZ30SM(-A/-IP) → **DDZ3018-SM/HS, DDZ3026-SM/HS DDZ3036-SM/HS**

in-ceiling mount



DDZ30IM(-A/-IP) → **DDZ3018-IM/HS, DDZ3026-IM/HS DDZ3036-IM/HS**

weather-proof housing



DDZ30WM(-A/-IP) → **DDZ3018-SM/HS, DDZ3026-SM/HS DDZ3036-SM/HS**

DDF4010HDV

The DDF4010HDV is a vandal-resistant high-definition high-end Cam_inPIX® colour IP network dome.

- 1/3" Full high-definition CMOS image sensor with Cam_inPIX® technology
- Pure Digital Signal Processing
- 10x optical zoom
- Additonal 12x digital zoom
- ICR function for Day/Night switching
- Integrated Dallmeier Image Optimiser for perfect image quality even under difficult lighting conditions
- Enhanced image quality by means of numerous control functions such as AWB, AGC, BLC and slow shutter
- Zoom lens: F1.8-F2.1/ f=5.1-51 mm
- Auto-focus with manual override
- Resolution: SD, HD (720p, 1080i, 1080p), frame rate up to 50 fps [1)]
- Video compression: MJPEG, H.264
- Simultaneous multi-streaming with freely selectable resolutions, frame and bit rates of each stream
- Integrated SmartZoom functionality
- Integrated motion detection with selectable sensitivity
- Alarm notification via email and FTP image upload
- Local video memory (USB/SD port)
- Integrated 64 MB RAM video buffer
- PoE ready
- Power supply: PoE or 24V AC
- Tri-axial adjustment
- Three available camera variants: in-ceiling mount, surface mount and weather-proof housing
- Compact, vandal-resistant housing with IP67 (surface mount variant)
- DIN EN 50130-4 compliant

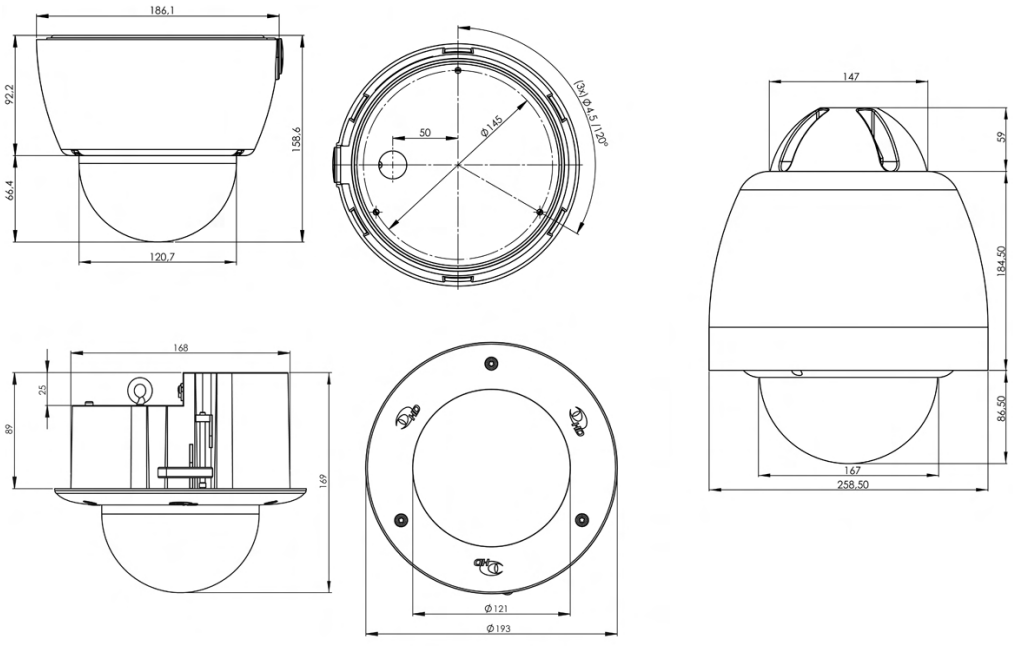
1) Depending on the resolution

Variants

200.407.01.100	DDF4010HDV-IM 1080p / Day-Night / white / clear bubble / in-ceiling mount variant Zoom lens F1.8-F2.1/ 5.1-51mm
200.407.02.100	DDF4010HDV-SM 1080p / Day-Night / white / clear bubble / surface mount variant Zoom lens F1.8-F2.1/ 5.1-51mm
200.407.03.100	DDF4010HDV-WM 1080p / Day-Night / white / clear bubble / weather-proof variant Zoom lens F1.8-F2.1/ 5.1-51mm

Options

200.407.01.01	Clear bubble, for dome cameras
200.407.01.02	Tinted bubble, for dome cameras
200.407.02.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
200.511	DPU-240W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



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DDF4110HDV

The DDF4110HDV is a vandal-resistant high-definition high-end Cam_inPIX® colour IP network dome.

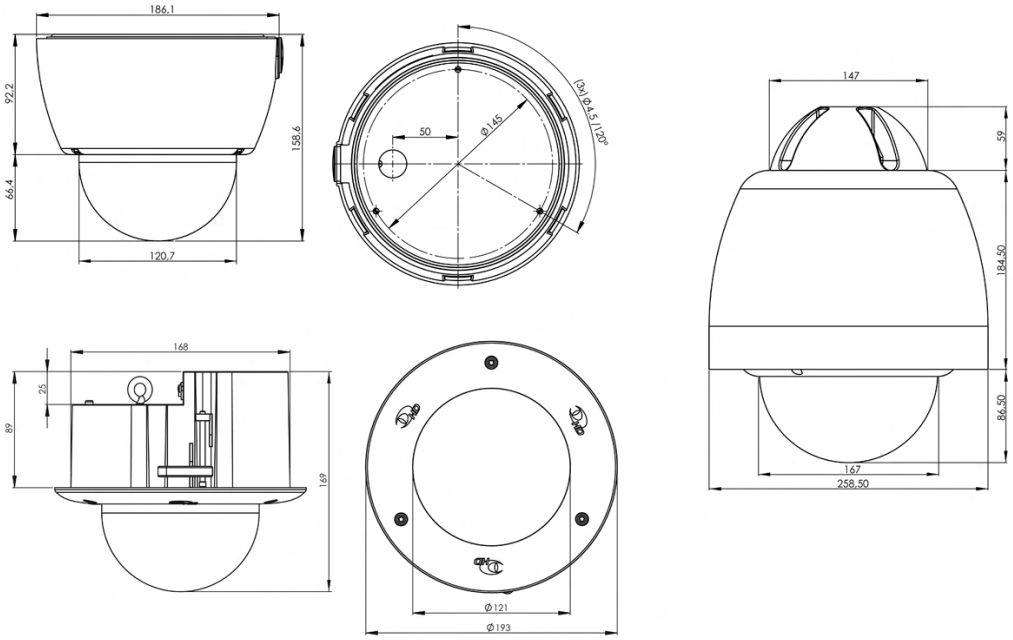
- 1/3" Full high-definition CMOS image sensor with Cam_inPIX® technology
- Pure Digital Signal Processing
- 10x optical zoom
- Additonal 12x digital zoom
- ICR function for Day/Night switching
- Integrated Dallmeier Image Optimiser for perfect image quality even under difficult lighting conditions
- Enhanced image quality by means of numerous control functions such as AWB, AGC, BLC and slow shutter
- Zoom lens: F1.8-F2.1/ f=5.1-51 mm
- Auto-focus with manual override
- Resolution: SD, HD (720p), frame rate up to 30 fps
- Video compression: MJPEG, H.264
- Simultaneous multi-streaming with freely selectable resolutions, frame and bit rates of each stream
- Integrated SmartZoom functionality
- Integrated motion detection with selectable sensitivity
- Alarm notification via email and FTP image upload
- Local video memory (USB/SD port)
- Integrated 64 MB RAM video buffer
- PoE ready
- Power supply: PoE or 24V AC
- Tri-axial adjustment
- Three available camera variants: in-ceiling mount, surface mount and weather-proof housing
- Compact, vandal-resistant housing with IP67 (surface mount variant)
- DIN EN 50130-4 compliant

Variants

200.408.01.100	DDF4110HDV-IM 720p / Day-Night / white / clear bubble / in-ceiling mount variant Zoom lens F1.8-F2.1/ 5.1-51mm
200.408.02.100	DDF4110HDV-SM 720p / Day-Night / white / clear bubble / surface mount variant Zoom lens F1.8-F2.1/ 5.1-51mm
200.408.03.100	DDF4110HDV-WM 720p / Day-Night / white / clear bubble / weather-proof variant Zoom lens F1.8-F2.1/ 5.1-51mm

Options

200.407.01.01	Clear bubble, for dome cameras
200.407.01.02	Tinted bubble, for dome cameras
200.407.02.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
200.511	DPU-240W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



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DDZ4010-YY/HS/HD DOMERA®

DOMERA® is a modular high-speed PTZ dome system. The high-resolution high-definition Cam_inPIX® colour dome camera DDZ4010-YY/HS/HD with 10x optical zoom is available in different mounting variants (in-ceiling, surface, weather-proof).

- 1/3" full high-definition CMOS sensor with Cam_inPIX® technology
- Pure Digital Signal Processing
- High definition high-speed PTZ dome with 10x optical zoom
- Additional 12x digital zoom
- ICR function for Day/Night switching
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- Auto-focus with manual override
- Resolution: SD, HD (720p, 1080i, 1080p) frame rate up to 50 fps [1)]
- Video compression: MJPEG, H.264
- Simultaneous multi-streaming with freely selectable resolutions, frame rate and bit rate of each stream
- Integrated SmartZoom functionality
- Motion detection with selectable sensitivity integrated
- High-performance Pan/Tilt/Zoom mechanism
- Local video memory (USB/SD port)
- Integrated 64MB RAM video buffer
- 248 programmable preset positions, 16 programmable tours
- Three mounting appliances with integrated IP I/O interface available: in-ceiling, surface and weather-proof variant
- Easy and quick installation
- DIN EN 50130-4 compliant

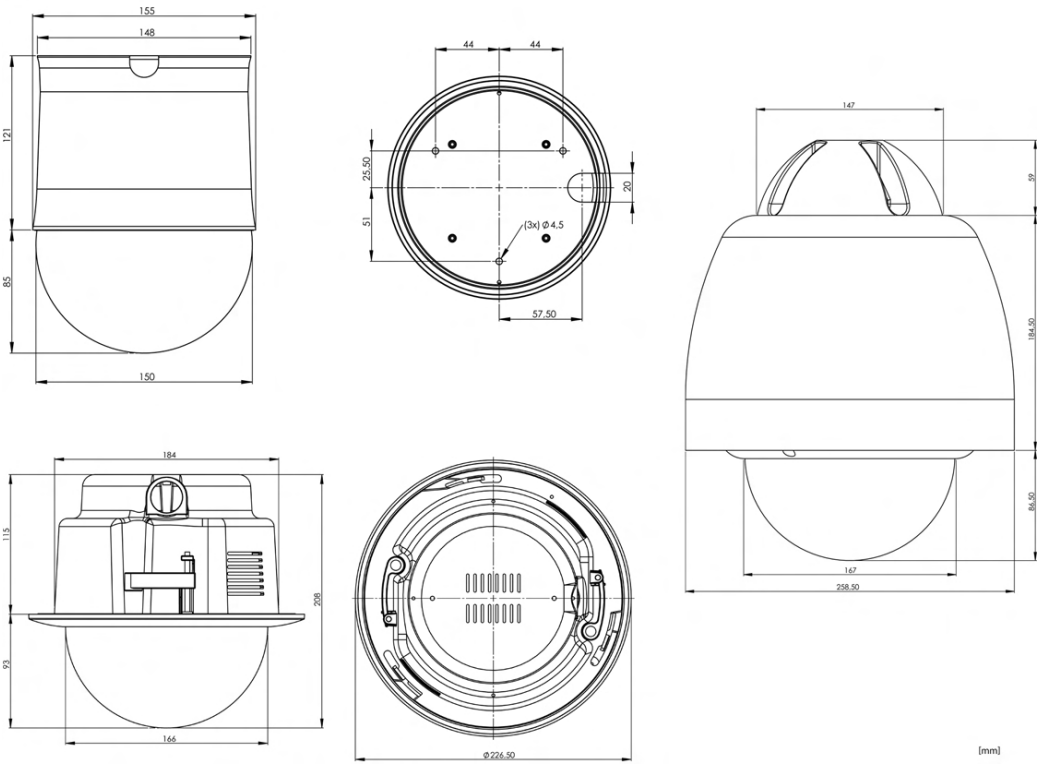
1) Depending on the resolution

Variants

200.03.031	DDZ4010-IM/HS/HD DOMERA® 1080p / Day-Night / 10x optical zoom / high definition / high-speed / clear bubble / in-ceiling mount variant
200.03.032	DDZ4010-SM/HS/HD DOMERA® 1080p / Day-Night / 10x optical zoom / high definition / high-speed / clear bubble / surface mount variant
200.03.033	DDZ4010-WM/HS/HD DOMERA® 1080p / Day-Night / 10x optical zoom / high definition / high-speed / clear bubble / weather-proof variant
200.03.066	DDZ4010-SM/HS/HD DOMERA® 1080p / Day-Night / 10x optical zoom / high definition / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)

Options

200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.52.02	Wall mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
200.622	Wall mount bracket, for PTZ domes surface mount variant / black
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



DDZ4110-YY/HS/HD DOMERA®

DOMERA® is a modular high-speed PTZ dome system. The high-resolution high-definition Cam_inPIX® colour dome camera DDZ4110-YY/HS/HD with 10x optical zoom is available in different mounting variants (in-ceiling, surface, weather-proof).

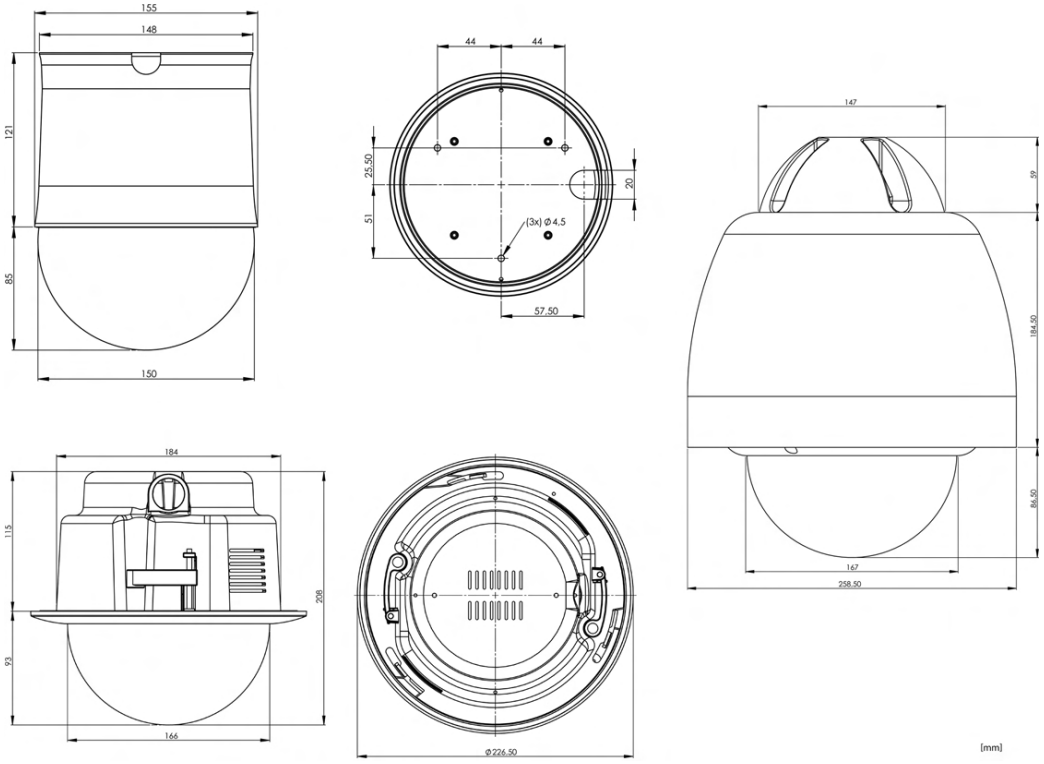
- 1/3" full high-definition CMOS sensor with Cam_inPIX® technology
- Pure Digital Signal Processing
- High definition high-speed PTZ dome with 10x optical zoom
- Additional 12x digital zoom
- ICR function for Day/Night switching
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- Auto-focus with manual override
- Resolution: SD, HD (720p) frame rate up to 30 fps
- Video compression: MJPEG, H.264
- Simultaneous multi-streaming with freely selectrable resolutions, frame rate and bit rate of each stream
- Integrated SmartZoom functionality
- Motion detection with selectable sensitivity integrated
- High-performance Pan/Tilt/Zoom mechanism
- Local video memory (USB/SD port)
- Integrated 64MB RAM video buffer
- 248 programmable preset positions, 16 programmable tours
- Three mounting appliances with integrated IP I/O interface available: in-ceiling, surface and weather-proof variant
- Easy and quick installation
- DIN EN 50130-4 compliant

Variants

200.03.028	DDZ4110-IM/HS/HD DOMERA® 720p / Day-Night / 10x optical zoom / high definition / high-speed / clear bubble / in-ceiling mount variant
200.03.029	DDZ4110-SM/HS/HD DOMERA® 720p / Day-Night / 10x optical zoom / high definition / high-speed / clear bubble / surface mount variant
200.03.030	DDZ4110-WM/HS/HD DOMERA® 720p / Day-Night / 10x optical zoom / high definition / high-speed / clear bubble / weather-proof variant
200.03.067	DDZ4110-SM/HS/HD DOMERA® 720p / Day-Night / 10x optical zoom / high definition / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)

Options

200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.52.02	Wall mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
200.622	Wall mount bracket, for PTZ domes surface mount variant / black
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



DF3000IP-PoE-DN

The DF3000IP-PoE-DN is a high-resolution UWDR Cam_inPIX® colour IP box camera. It is ready for PoE and can also be operated with 24V AC power supply.

- Horizontal resolution: 540 TV lines
- 1/3" DPS* image sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- 17-bit Digital Signal Processing
- High light sensitivity at F0.95, 50IRE: 0.5 lux and (-DN) 0.2 lux
- Progressive image capture and image transmission
- ICR function for Day/Night switching
- Integrated Dallmeier Image Optimiser for perfect image quality, even under adverse lighting conditions
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- Integrated motion detection with selectable sensitivity
- Hybrid IP camera with analogue preview output
- Video compression with either MPEG-2/-4, MJPEG or H.264 1)
- Resolution up to D1 and frame rate up to 25 fps at all resolutions
- Alarm message via email and FTP image upload
- Integrated 64MB RAM video memory
- PoE capable
- Power supply: PoE or 24V AC
- Standard version delivered without lens 2)
- DIN EN 50130-4 compliant

1) In development

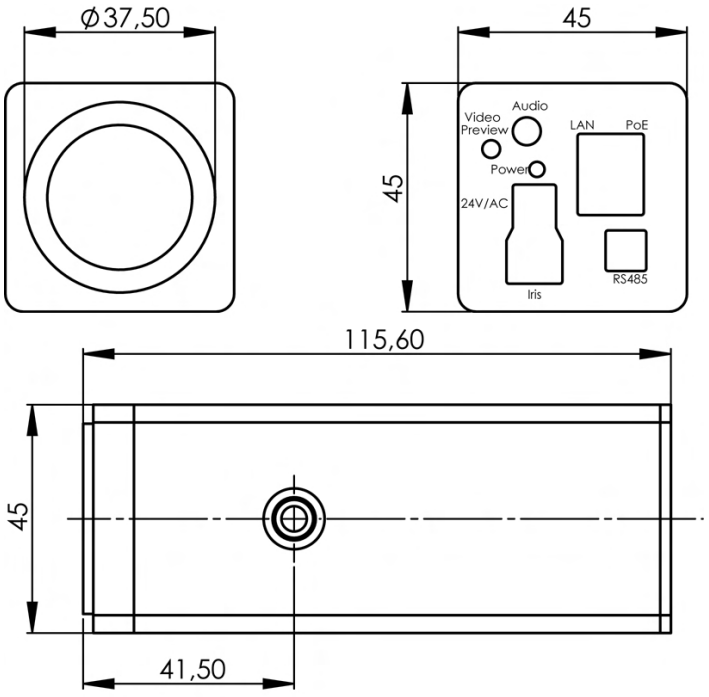
2) The use of IR corrected Day/Night lenses is recommended for IR lighting; Day lenses are only suitable for CasinoCam variants.

Variants

200.403.01.100	DF3000IP-PoE-DN PAL / Day-Night / grey without lens
200.403.01.200	DF3000IP-PoE-D CasinoCam PAL / Day / grey HiRes vari-focal lens F0.95/ 2.8-8mm
200.403.01.201	DF3000IP-PoE-D CasinoCam PAL / Day / grey HiRes vari-focal lens F1.5/ 15-50mm

Options

200.400.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale., For enquires please contact design@dallmeier.com
200.402.2.09.01	Preview adapter cable, 2.5mm phone jack on BNC
210.400.2	Fujinon F0.95/ 2.8-8mm D, HiRes vari-focal lens / Day / not IR corrected
210.400.3	Fujinon F1.5/ 15-50mm DN, HiRes vari-focal lens / Day-Night / IR corrected
210.400.4	Fujinon F0.95/ 2.9-8mm DN, HiRes vari-focal lens / Day-Night / IR corrected
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
200.511	DPU-240W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.301.1.001	Weather-proof housing Arctic with mounted box camera, Operational from very low temperatures of -55°C up to +45°C; with mounted camera including heater, sun shield, power supply unit and wall mount, Please note that camera must be ordered separately
200.301.2.001	Weather-proof housing Arctic for box camera, Operational from very low temperatures of -55°C up to +45°C; including heater, sun shield, power supply unit and wall mount



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DDF3000IPV-DN

The DDF3000IPV-DN is a vandal-resistant HiRes UWDR Cam_inPIX® colour IP dome camera.

- Horizontal resolution: 540 TV lines
- 1/3" DPS* image sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- 17-bit Digital Signal Processing
- High sensitivity for low-light images at F1.2, 50IRE: 0.8 lux and (-DN) 0.3 lux
- Progressive image capture and transmission
- ICR function for Day/Night switching
- Integrated Dallmeier Image Optimiser for perfect image quality, even under adverse lighting conditions
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- Integrated motion detection with selectable sensitivity
- HiRes vari-focal lens: F1.2/ f=2.9-10mm, Day/Night [1)]
- Hybrid IP camera with analogue preview output
- Video compression: MPEG-2/-4, MJPEG, H.264 [2)]
- Resolution up to D1 and frame rate up to 25 fps at all resolutions
- Alarm message via email and FTP image upload
- Integrated 64MB RAM video memory
- PoE capable
- Power supply: PoE or 12V DC / 24V AC
- Tri-axial adjustment
- Compact, vandal-resistant housing with IP67 (surface mount variant)
- DIN EN 50130-4 compliant

1) The use of IR corrected Day/Night lenses is recommended for IR lighting; Day lenses are only suitable for CasinoCam variants.

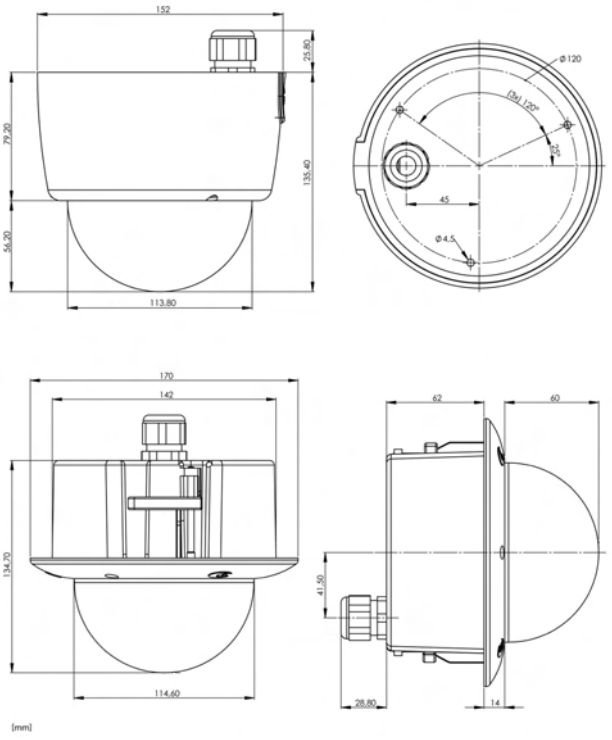
2) In development.

Variants

200.401.10.01.101	DDF3000IPV-DN PAL / Day-Night / white / clear bubble / surface mount variant / suitable for IR lighting HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.10.01.103	DDF3000IPV-DN PAL / Day-Night / white / clear bubble / surface mount variant / suitable for IR lighting HiRes vari-focal lens F1.5/ 9-22mm
200.401.10.01.201	DDF3000IPV-D CasinoCam PAL / Day / white / clear bubble / surface mount variant HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.10.01.203	DDF3000IPV-D CasinoCam PAL / Day / white / clear bubble / surface mount variant HiRes vari-focal lens F1.5/ 9-22mm
200.401.10.02.100	DDF3000IPV-DN PAL / Day-Night / white / clear bubble / in-ceiling variant / suitable for IR lighting HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.10.02.102	DDF3000IPV-DN PAL / Day-Night / white / clear bubble / in-ceiling variant / suitable for IR lighting HiRes vari-focal lens F1.5/ 9-22mm
200.401.10.02.200	DDF3000IPV-D CasinoCam PAL / Day / white / clear bubble / in-ceiling mount variant HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.10.02.202	DDF3000IPV-D CasinoCam PAL / Day / white / clear bubble / in-ceiling mount variant HiRes vari-focal lens F1.5/ 9-22mm

Options

200.401.10.01.01	Clear bubble, for dome cameras, surface mount variant
200.401.10.01.02	Tinted bubble, for dome cameras, surface mount variant
200.401.10.02.01	Clear bubble, for dome cameras, in-ceiling mount variant
200.401.10.02.02	Tinted bubble, for dome cameras, in-ceiling mount variant
200.401.10.02.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.511	DPU-240W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



DDZ30XX-YY/HS/A DOMERA®

DOMERA Analogue

DOMERA® is a modular high-speed PTZ dome system. The high-resolution analogue Wide Dynamic Range colour dome cameras DDZ30XX-YY/HS/A are available in different mounting variants (in-ceiling, surface, weather-proof) and with different zoom factors (18x, 26x, 36x). The cameras are shipped as a complete system (dome camera including mounting device). The maintenance-friendly modular concept allows for flexible planning and subsequent changes to the zoom factor can be made without effort.

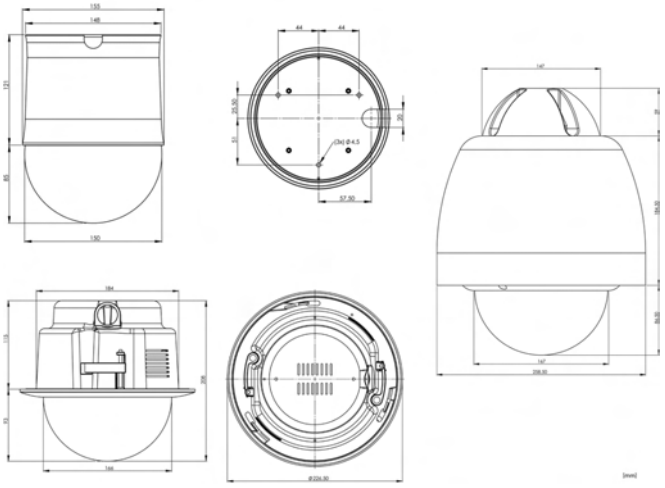
- Horizontal resolution: up to 530 TV lines
- 1/4" EXview HAD CCD* sensor
- Pure Digital Signal Processing
- Three Wide Dynamic Range high-speed PTZ domes with 18x / 26x / 36x optical zoom are available
- Additional 12x digital zoom
- High sensitivity for low-light images
- ICR function for Day/Night switching
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and slow shutter
- Auto-focus with manual override
- High-performance Pan/Tilt/Zoom mechanism
- 248 programmable preset positions, 16 programmable tours
- Integrated motion detection
- Three mounting appliances with integrated analogue I/O interface available: in-ceiling, surface and weather-proof mount
- Easy and quick installation
- DIN EN 50130-4 compliant

Variants

200.011.001	DDZ3018-IM/HS/A PAL / 480 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.011.002	DDZ3026-IM/HS/A PAL / 480 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.011.003	DDZ3036-IM/HS/A PAL / 480 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.011.004	DDZ3018-SM/HS/A PAL / 480 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / surface mount variant
200.011.005	DDZ3026-SM/HS/A PAL / 480 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / surface mount variant
200.011.006	DDZ3036-SM/HS/A PAL / 480 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / surface mount variant
200.011.007	DDZ3018-WM/HS/A PAL / 480 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / weather-proof variant
200.011.008	DDZ3026-WM/HS/A PAL / 480 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / weather-proof variant
200.011.009	DDZ3036-WM/HS/A PAL / 480 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / weather-proof variant
200.011.052	DDZ3018-SM/HS/A PAL / 480 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.011.053	DDZ3026-SM/HS/A PAL / 480 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.011.054	DDZ3036-SM/HS/A PAL / 480 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.012.034	DDZ3018-IM/HS/A PAL / 530 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.012.035	DDZ3026-IM/HS/A PAL / 530 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.012.036	DDZ3036-IM/HS/A PAL / 530 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.012.037	DDZ3018-SM/HS/A PAL / 530 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / surface mount variant
200.012.038	DDZ3026-SM/HS/A PAL / 530 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / surface mount variant
200.012.039	DDZ3036-SM/HS/A PAL / 530 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / surface mount variant
200.012.040	DDZ3018-WM/HS/A PAL / 530 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / weather-proof variant
200.012.041	DDZ3026-WM/HS/A PAL / 530 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / weather-proof variant
200.012.042	DDZ3036-WM/HS/A PAL / 530 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / weather-proof variant
200.012.055	DDZ3018-SM/HS/A PAL / 530 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.012.056	DDZ3026-SM/HS/A PAL / 530 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.012.057	DDZ3036-SM/HS/A PAL / 530 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)

Options

200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.52.02	Wall mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
200.620	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant /, white cover ring
200.622	Wall mount bracket, for PTZ domes surface mount variant / black
200.630	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant / black cover ring
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.515	Power Inserter, for the voltage supply of UTP ready cameras via DIS-2/M UTP modules (only in combination with DPU-240W or DPU-480W)
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



DDZ30XX-YY/HS/IP DOMERA®

DOMERA® is a modular high-speed PTZ dome system. The high-resolution Wide Dynamic Range IP colour dome cameras DDZ30XX-YY/HS/IP are available in different mounting variants (in-ceiling, surface, weather-proof) and with different zoom factors (18x, 26x, 36x). The cameras are shipped as a complete system (dome camera including mounting device). The maintenance-friendly modular concept allows for flexible planning and subsequent changes to the zoom factor can be made without effort.

- Horizontal resolution: up to 530 TV lines
- 1/4" EXview HAD CCD* sensor
- Pure Digital Signal Processing
- Three Wide Dynamic Range high-speed PTZ domes with 18x / 26x / 36x optical zoom are available
- Additional 12x digital zoom
- High sensitivity for low-light images
- ICR function for Day/Night switching
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and slow shutter
- Auto-focus with manual override
- IP output and analogue preview output
- Motion detection with selectable sensitivity integrated
- Video compression with MPEG-2/-4, MJPEG or H.264 [1)]
- Resolution up to D1 and frame rate up to 25fps at all resolutions
- Alarm message via email and FTP image upload
- Integrated 64MB RAM video memory
- High-performance Pan/Tilt/Zoom mechanism
- 248 programmable preset positions, 16 programmable tours
- Three mounting appliances available with integrated IP I/O interface: in-ceiling, surface and weather-proof mount
- Easy and quick installation
- DIN EN 50130-4 compliant

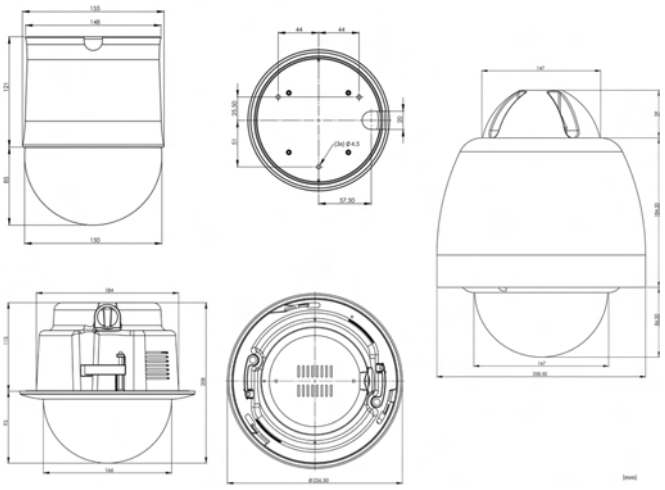
1) In development

Variants

200.021.010	DDZ3018-IM/HS/IP PAL / 480 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.021.011	DDZ3026-IM/HS/IP PAL / 480 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.021.012	DDZ3036-IM/HS/IP PAL / 480 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.021.013	DDZ3018-SM/HS/IP PAL / 480 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / surface mount variant
200.021.014	DDZ3026-SM/HS/IP PAL / 480 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / surface mount variant
200.021.015	DDZ3036-SM/HS/IP PAL / 480 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / surface mount variant
200.021.016	DDZ3018-WM/HS/IP PAL / 480 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / weather-proof variant
200.021.017	DDZ3026-WM/HS/IP PAL / 480 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / weather-proof variant
200.021.018	DDZ3036-WM/HS/IP PAL / 480 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / weather-proof variant
200.021.058	DDZ3018-SM/HS/IP PAL / 480 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.021.059	DDZ3026-SM/HS/IP PAL / 480 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.021.060	DDZ3036-SM/HS/IP PAL / 480 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.022.043	DDZ3018-IM/HS/IP PAL / 530 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.022.044	DDZ3026-IM/HS/IP PAL / 530 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.022.045	DDZ3036-IM/HS/IP PAL / 530 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / in-ceiling mount variant
200.022.046	DDZ3018-SM/HS/IP PAL / 530 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / surface mount variant
200.022.047	DDZ3026-SM/HS/IP PAL / 530 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / surface mount variant
200.022.048	DDZ3036-SM/HS/IP PAL / 530 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / surface mount variant
200.022.049	DDZ3018-WM/HS/IP PAL / 530 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / weather-proof variant
200.022.050	DDZ3026-WM/HS/IP PAL / 530 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / weather-proof variant
200.022.051	DDZ3036-WM/HS/IP PAL / 530 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / weather-proof variant
200.022.061	DDZ3018-SM/HS/IP PAL / 530 TVL / Day-Night / 18x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.022.062	DDZ3026-SM/HS/IP PAL / 530 TVL / Day-Night / 26x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)
200.022.063	DDZ3036-SM/HS/IP PAL / 530 TVL / Day-Night / 36x optical zoom / high-speed / clear bubble / surface mount variant / white housing (minimum order quantity and delivery periods upon request)

Options

200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.52.02	Wall mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
200.620	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant /, white cover ring
200.622	Wall mount bracket, for PTZ domes surface mount variant / black
200.630	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant / black cover ring
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



DDZ3018-YY/RP/A DOMERA®

DOMERA® is a modular remote-positioning PTZ dome system. The high-resolution analogue Wide Dynamic Range colour dome cameras DDZ3018-YY/RP/A are available in different mounting variants (in-ceiling, surface, weather-proof) and with 18x zoom factor. The cameras are shipped as a complete system (dome camera including mounting device). The maintenance-friendly modular concept allows for flexible planning.

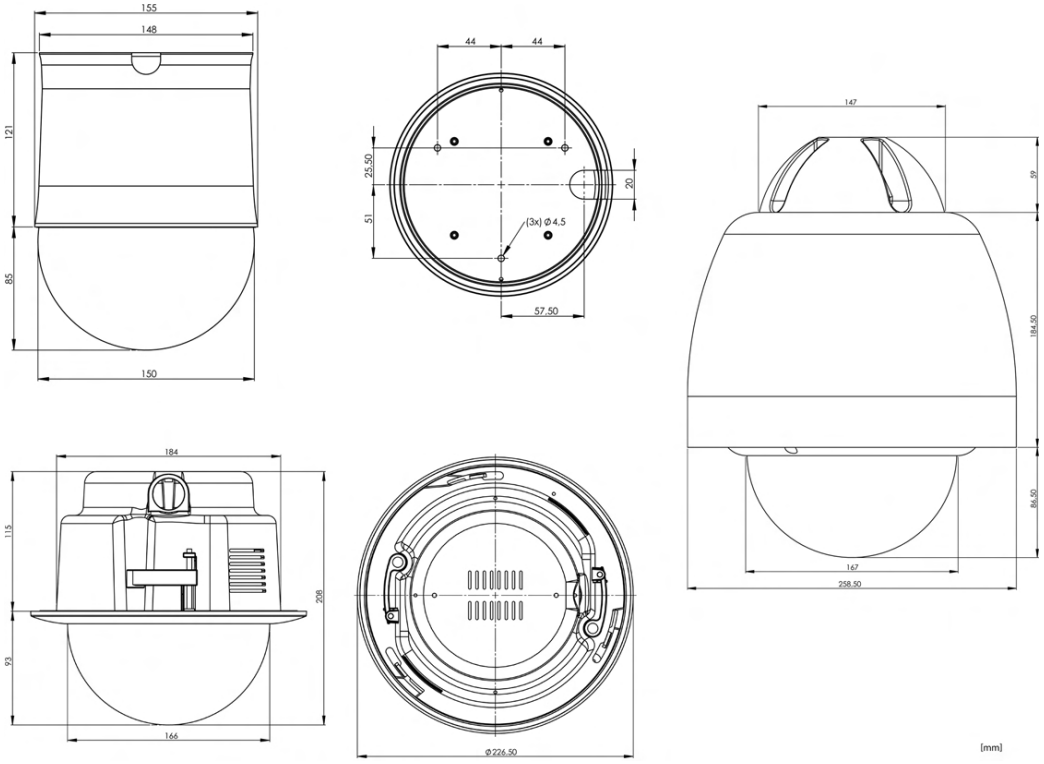
- Horizontal resolution: 480 TV lines
- 1/4" EXview HAD CCD* sensor
- Pure Digital Signal Processing
- 18x optical zoom additional 12x digital zoom
- High sensitivity for low-light images
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and slow shutter
- Auto-focus with manual override
- Remote-positioning Pan/Tilt/Zoom mechanism
- 8 programmable preset positions
- Three mounting appliances with integrated analogue I/O interface available: in-ceiling, surface and weather-proof mount
- Easy and quick installation
- DIN EN 50130-4 compliant

Variants

200.01.022	DDZ3018-IM/RP/A PAL / Day / remote positioning / clear bubble / in-ceiling mount variant 18x optical zoom
200.01.023	DDZ3018-SM/RP/A PAL / Day / remote positioning / clear bubble / surface mount variant 18x optical zoom
200.01.024	DDZ3018-WM/RP/A PAL / Day / remote positioning / clear bubble / weather-proof variant 18x optical zoom
200.01.064	DDZ3018-SM/RP/A PAL / Day / remote positioning / clear bubble / surface mount variant 18x optical zoom white housing (minimum order quantity and delivery periods upon request)

Options

200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
200.620	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant /, white cover ring
200.622	Wall mount bracket, for PTZ domes surface mount variant / black
200.630	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant / black cover ring
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.515	Power Inserter, for the voltage supply of UTP ready cameras via DIS-2/M UTP modules (only in combination with DPU-240W or DPU-480W)
200.445.18.1.001	DDZ3018-SM/RP, PTZ dome camera without I/O interface, PAL / Day / black / remote positioning / surface mount variant / 18x optical zoom
200.445.18.2.001	DDZ3018-IM/RP, PTZ dome camera without I/O interface, PAL / Day / black / remote positioning / in-ceiling mount variant / 18x optical zoom
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



DDZ3018-YY/RP/IP DOMERA®

DOMERA® is a modular remote-positioning PTZ dome system. The high-resolution IP colour dome cameras DDZ3018-YY/RP/IP are available in different mounting variants (in-ceiling, surface, weather-proof) and with 18x zoom factors. The cameras are shipped as a complete system (dome camera including mounting device). The maintenance-friendly modular concept allows for flexible planning.

- Horizontal resolution: 480 TV lines
- 1/4" EXview HAD CCD* sensor
- Pure Digital Signal Processing
- 18x optical zoom and additional 12x digital zoom
- High sensitivity for low-light images
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and slow shutter
- Auto-focus with manual override
- IP output and analogue preview output
- Motion detection with selectable sensitivity integrated
- Video compression with MPEG-2/-4, MJPEG or H.264 [1)]
- Resolution up to D1 and frame rate up to 25fps at all resolutions
- Alarm message via email and FTP image upload
- Integrated 64MB RAM video memory
- Remote-positioning Pan/Tilt/Zoom mechanism
- 8 programmable preset positions
- Three mounting appliances available with integrated IP I/O interface: in-ceiling, surface and weather-proof mount
- Easy and quick installation
- DIN EN 50130-4 compliant

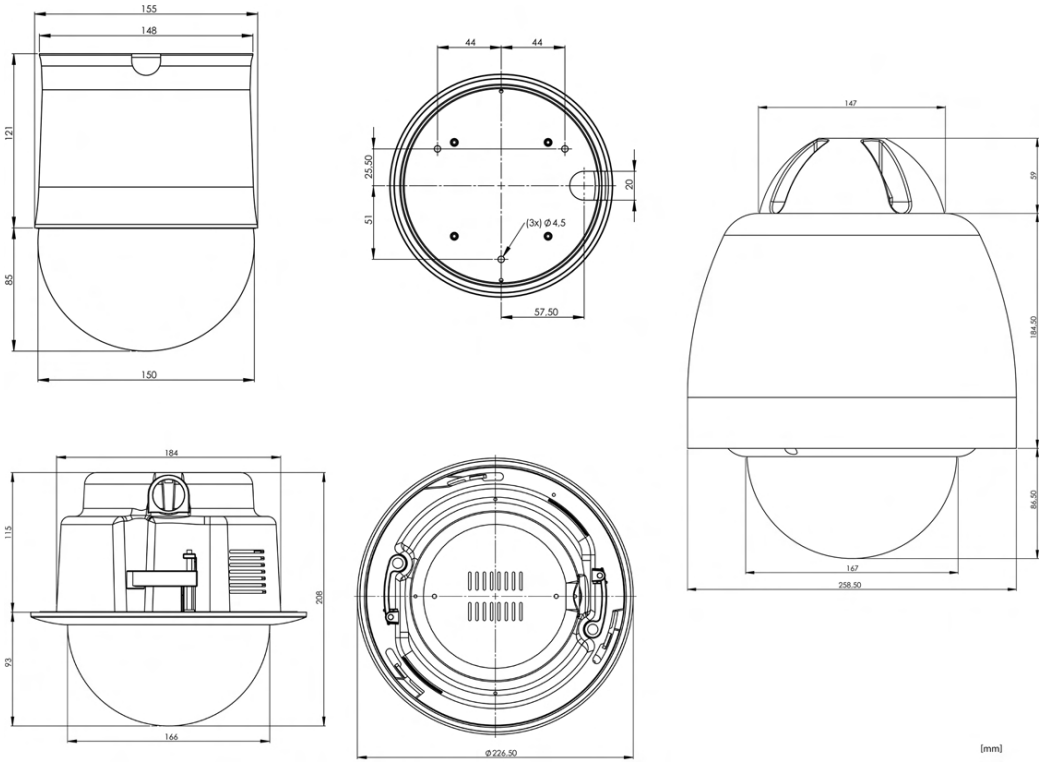
1) In development

Variants

200.02.019	DDZ3018-IM/RP/IP PAL / Day / remote positioning / clear bubble / in-ceiling mount variant 18x optical zoom
200.02.020	DDZ3018-SM/RP/IP PAL / Day / remote positioning / clear bubble / surface mount variant 18x optical zoom
200.02.021	DDZ3018-WM/RP/IP PAL / Day / remote positioning / clear bubble / weather-proof variant 18x optical zoom
200.02.065	DDZ3018-SM/RP/IP PAL / Day / remote positioning / clear bubble / surface mount variant 18x optical zoom white housing (minimum order quantity and delivery periods upon request)

Options

200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
200.620	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant /, white cover ring
200.622	Wall mount bracket, for PTZ domes surface mount variant / black
200.630	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant / black cover ring
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.445.18.1.001	DDZ3018-SM/RP, PTZ dome camera without I/O interface, PAL / Day / black / remote positioning / surface mount variant / 18x optical zoom
200.445.18.2.001	DDZ3018-IM/RP, PTZ dome camera without I/O interface, PAL / Day / black / remote positioning / in-ceiling mount variant / 18x optical zoom
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



DDZ3018A-DN

The DDZ3018A-DN is a HiRes high-speed PTZ colour dome camera.

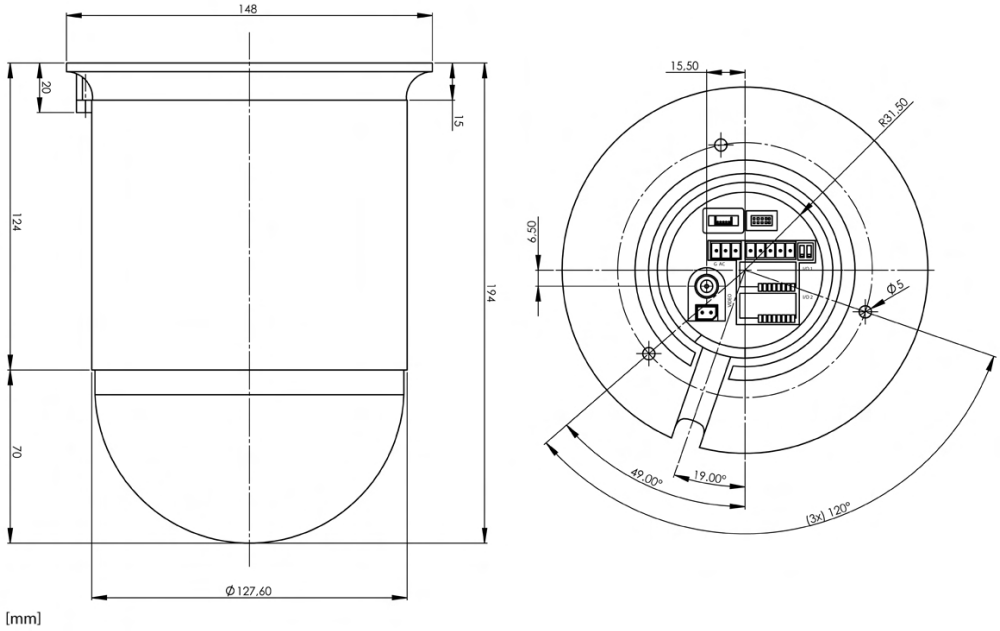
- Horizontal resolution: 480 TV lines
- 1/4" EXview HAD CCD* sensor
- Pure Digital Signal Processing
- HiRes zoom lens: F1.4-F3.0/ f=4.1-73.8mm
- 18x optical zoom and additional 12x digital zoom
- High sensitivity for low-light images at F1.4, 50IRE: 0.7 lux and (-DN) 0.01 lux
- ICR function for Day/Night switching
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and slow shutter
- Auto-focus with manual override
- High-performance Pan/Tilt/Zoom mechanism
- 248 programmable preset positions, 12 programmable guard tours
- 8 alarm inputs and 2 relay outputs
- Configuration and control via RS485 interface

Variants

200.401.7.103	DDZ3018A-DN (DS) PAL / Day-Night / 18x optical zoom / black / clear bubble / in-ceiling mount variant
200.401.7.106	DDZ3018A-DN (DS) PAL /Day-Night / 18x optical zoom / white / clear bubble / surface mount variant

Options

200.401.4.10.02	Wall mount bracket, for PTZ dome cameras surface mount variant / white
200.401.4.10.03	Wall mount bracket, for PTZ dome cameras surface mount variant / black
200.401.4.20.02	In-ceiling mount kit, for PTZ dome cameras / white cover ring
200.401.4.50.02	Weather-proof housing, for PTZ dome cameras / with integrated fan and heater / white
200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.52.02	Wall mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
200.401.4.55.02	Sun shield, for weather-proof housing / white
200.401.7.02.01	Clear bubble for, PTZ dome cameras
200.401.7.02.02	Tinted bubble, for PTZ dome cameras
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



DDZ3026A-DN

The DDZ3026A-DN is a HiRes high-speed PTZ colour dome camera.

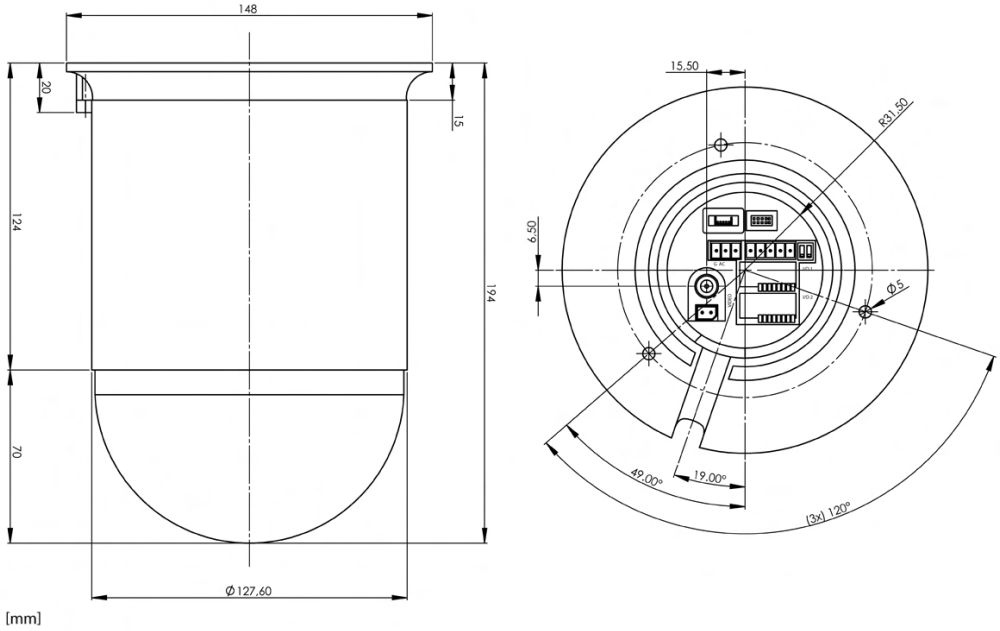
- Horizontal resolution: 480 TV lines
- 1/4" Super HAD CCD* sensor
- Pure Digital Signal Processing
- HiRes zoom lens: F1.6-F3.8/ f=3.5-91.0mm
- 26x optical zoom and additional 10x digital zoom
- High sensitivity for low-light images at F1.6, 50IRE: 1.0 lux and (-DN) 0.1 lux
- ICR function for Day/Night switching
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and slow shutter
- Image stabilisation
- Auto-focus with manual override
- High-performance Pan/Tilt/Zoom mechanism
- 248 programmable preset positions, 12 programmable guard tours
- 8 alarm inputs and 2 relay outputs
- Configuration and control via RS485 interface

Variants

200.401.11.100	DDZ3026A-DN (PS) PAL / Day-Night / 26x optical zoom / black / clear bubble
200.401.11.101	DDZ3026A-DN (PS) PAL / Day-Night / 26x optical zoom / black / tinted bubble

Options

200.401.4.10.02	Wall mount bracket, for PTZ dome cameras surface mount variant / white
200.401.4.10.03	Wall mount bracket, for PTZ dome cameras surface mount variant / black
200.401.4.20.02	In-ceiling mount kit, for PTZ dome cameras / white cover ring
200.401.4.50.12	Weather-proof housing, for PTZ dome cameras / with integrated fan and heater / white
200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.52.02	Wall mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
200.401.4.55.02	Sun shield, for weather-proof housing / white
200.401.7.01.01	Clear bubble, for PTZ dome cameras
200.401.7.01.02	Tinted bubble for, PTZ dome cameras
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".



DDF3000APV Picodome®

The DDF3000APV is a vandal-resistant UWDR Cam_inPIX® colour Picodome®.

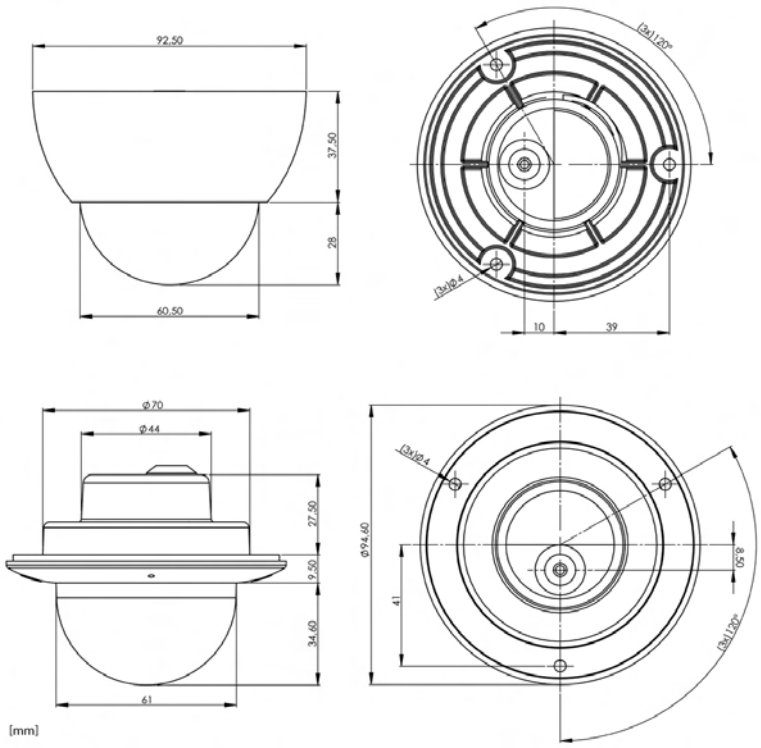
- Horizontal resolution: 540 TV lines
- 1/3" DPS* sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- Pure 17-bit Digital Signal Processing
- High sensitivity for low-light images at F1.4, 50IRE: 1.0 lux
- Progressive image capture
- Progressive With Segmented Frames (PsF) image data transmission
- IR cut lens coating
- Advanced noise reduction
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- Mono-focal lens with F1.4/ f=3.6mm
- Configuration via UTC commands
- Compact, vandal-resistant housing with IP66 (surface mount version)
- PPL (push, point and lock, easy alignment)
- DIN EN 50130-4 compliant

Variants

200.401.17.002	DDF3000APV-D Picodome® PAL / Day / white / clear bubble / surface mount variant mono-focal lens F1.4/ 3.6mm
200.401.17.003	DDF3000APV-D Picodome® PAL / Day / white / clear bubble / surface mount variant HiRes mono-focal lens F2.5/ 2.3mm
200.401.17.004	DDF3000APV-D Picodome® PAL / Day / white / clear bubble / surface mount variant mono-focal lens F1.8/ 6mm
200.401.17.005	DDF3000APV-D Picodome® PAL / Day / white / clear bubble / surface mount variant mono-focal lens F2.0/ 8mm
200.401.18.002	DDF3000APV-D Picodome® PAL / Day / white / clear bubble / in-ceiling mount variant mono-focal lens F1.4/ 3.6mm
200.401.18.003	DDF3000APV-D Picodome® PAL / Day / white / clear bubble / in-ceiling mount variant HiRes mono-focal lens F2.5/ 2.3mm
200.401.18.004	DDF3000APV-D Picodome® PAL / Day / white / clear bubble / in-ceiling mount variant mono-focal lens F1.8/ 6mm
200.401.18.005	DDF3000APV-D Picodome® PAL / Day / white / clear bubble / in-ceiling mount variant mono-focal lens F2.0/ 8mm

Options

200.401.17.05.03	Mounting ring for surface mount variants, standard adapter ring, lateral cable routing, screw connection at flush-mounted sockets according to DIN 49073 (D=68mm and D=74mm),
200.401.17.05.11	Angular adapter for surface mount variants, 15° adapter ring, angle of view with wall/ceiling mounting of 90°, lateral cable routing, screw connection at flush-mounted sockets according to DIN 49073 (D=68mm and D=74mm),
200.401.17.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for surface mount variants., For enquires please contact design@dallmeier.com
200.401.18.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
100.043	Voltage converter 24V AC on 12V DC
200.433	Privacy Zone Box, for analogue cameras, More information can be found in our Partner Forum under "Documentations".
200.440	PicoRemote, UTC Remote Box for analogue Cam_inPIX® cameras, More information can be found in our Partner Forum under "Documentations".
200.401.17.01.004	Designer cover ring, surface mount variant / carbon black-silver high gloss finish
200.401.17.01.011	Designer cover ring, surface mount variant / dark walnut matt
200.401.17.01.014	Designer cover ring, surface mount variant / dark burl wood high gloss finish
200.401.17.01.016	Designer cover ring, surface mount variant / bright burl wood high gloss finish
200.401.17.01.018	Designer cover ring, surface mount variant / marble black-white high gloss finish
200.401.18.01.001	Designer cover ring, in-ceiling mount variant / black beamless
200.401.18.01.002	Designer cover ring, in-ceiling mount variant / coppery brushed
200.401.18.01.003	Designer cover ring, in-ceiling mount variant / carbon black-silver high gloss finish
200.401.18.01.005	Designer cover ring, in-ceiling mount variant / chrome
200.401.18.01.006	Designer cover ring, in-ceiling mount variant / chrome black
200.401.18.01.007	Designer cover ring, in-ceiling mount variant / golden brushed
200.401.18.01.008	Designer cover ring, in-ceiling mount variant / golden gleaming
200.401.18.01.010	Designer cover ring, in-ceiling mount variant / dark walnut matt
200.401.18.01.012	Designer cover ring, in-ceiling mount variant / silver
200.401.18.01.013	Designer cover ring, in-ceiling mount variant / dark burl wood high gloss finish
200.401.18.01.015	Designer cover ring, in-ceiling mount variant / bright burl wood high gloss finish
200.401.18.01.017	Designer cover ring, in-ceiling mount variant / marble black-white high gloss finish
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.434.1.001	MicroStreamer-PoE, PAL / grey



PICODOME®

CamInPIX® Technology

PICODOME®

The perfectly formed Picodome.

Petite, yet Precise.

Proof that the best performing

cameras in the world,

can look the best too.

DDF3000A4-DN

The DDF3000A4-DN is a HiRes UWDR Cam_inPIX® colour mini dome with dual mode UTP (two-wire line/Unshielded Twisted Pair) and BNC video output and tri-axial gimbal adjustment. The DDF3000A4-DN can be operated on 12V DC as well as on 24V AC power supply.

- Horizontal resolution: 540 TV lines
- 1/3" DPS* image sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- 17-bit Digital Signal Processing
- High light sensitivity at F1.2, 50IRE: 0.8 lux and (-DN) 0.3 lux
- Progressive image capture
- Progressive With Segmented Frames (PsF) image transmission
- ICR function for Day/Night switching
- Enhanced noise suppression
- Optimisation of image quality through numerous control functions such as AWB, AGC, BLC and extended Slow Shutter
- HiRes vari-focal lens with F1.2/ f=2.9-10mm, Day/Night [1)]
- Configuration via UTC commands
- Video outputs: 1x UTP and 1x BNC
- Tri-axial gimbal adjustment
- Power supply: 12V DC or 24V AC
- DIN EN 50130-4 compliant

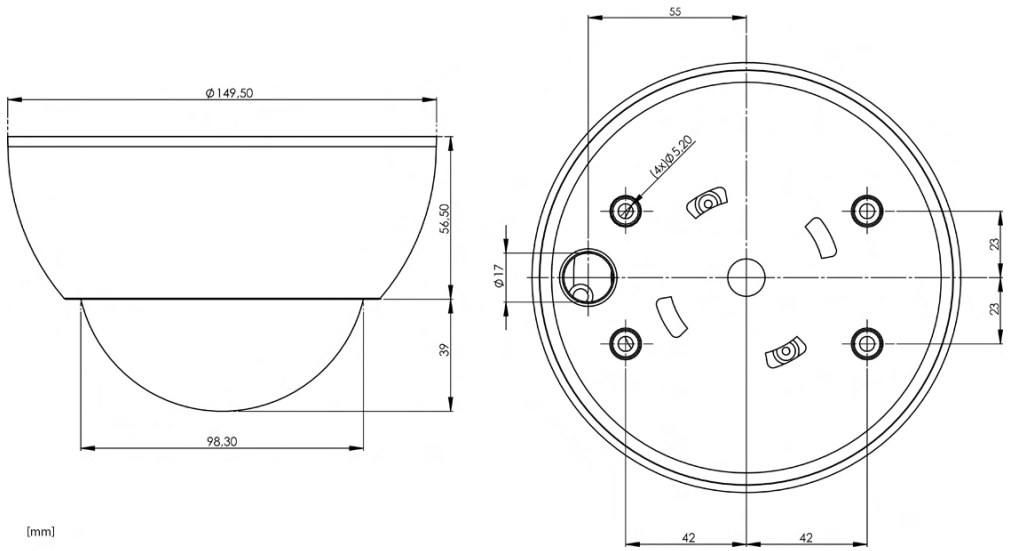
1) The use of IR corrected Day/Night lenses is recommended for IR lighting; Day lenses are only suitable for CasinoCam variants.

Variants

200.404.01.101	DDF3000A4-DN PAL / Day-Night / white / clear bubble / surface mount variant / suitable for IR lighting HiRes vari-focal lens F1.5/ 9-22mm
200.404.01.102	DDF3000A4-DN PAL / Day-Night / white / clear bubble / surface mount variant / suitable for IR lighting HiRes vari-focal lens F1.2/ 2.9-10mm
200.404.01.201	DDF3000A4-D CasinoCam PAL / Day / white / clear bubble / surface mount variant HiRes vari-focal lens F1.2 / 2.9-10 mm
200.404.01.202	DDF3000A4-D CasinoCam PAL / Day / white / clear bubble / surface mount variant HiRes vari-focal lens F1.5 / 9-22 mm

Options

200.401.10.01.01	Clear bubble, for dome cameras, surface mount variant
200.401.10.01.02	Tinted bubble, for dome cameras, surface mount variant
200.404.01.05.03	Mounting ring for surface mount variant, standard adapter ring, lateral cable routing, screw connection at flush-mounted sockets according to DIN 49073 (D=68mm and D=74mm),
200.404.01.05.11	Angular adapter for surface mount variant, 15° adapter ring, angle of view with wall/ceiling mounting of 90°, lateral cable routing, screw connection at flush-mounted sockets according to DIN 49073 (D=68mm and D=74mm),
200.404.01.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for surface mount variants., For enquires please contact design@dallmeier.com
200.401.2.09.01	Preview adapter cable, phone jack 3.5mm on BNC
200.433	Privacy Zone Box, for analogue cameras, More information can be found in our Partner Forum under "Documentations".
200.440	PicoRemote, UTC Remote Box for analogue Cam_inPIX® cameras, More information can be found in our Partner Forum under "Documentations".
200.515	Power Inserter, for the voltage supply of UTP ready cameras via DIS-2/M UTP modules (only in combination with DPU-240W or DPU-480W)
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.511	DPU-240W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.434.1.001	MicroStreamer-PoE, PAL / grey



DDF3000AV4-DN

The DDF3000AV4-DN is a vandal-resistant high-resolution UWDR Cam_inPIX® colour minidome with DualMode video UTP (two-wire line/Unshielded Twisted Pair) and BNC video output as well as tri-axial adjustment.

- Horizontal resolution: 540 TV lines
- 1/3" DPS* image sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- 17-bit Digital Signal Processing
- High light sensitivity at F0.95, 50IRE: 0.5 lux and (-DN) 0.2 lux
- Progressive image capture
- Progressive With Segmented Frames (PsF) image transmission
- ICR function for Day/Night switching
- Enhanced noise suppression
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- HiRes vari-focal lens: F0.95/ f=2.9-8mm, IR corrected, Day/Night [1)]
- Configuration via UTC commands
- Video output: 1x UTP and 1x BNC
- Tri-axial adjustment
- Compact vandal-resistant housing with IP67 (surface mount variant)
- Power supply: 12V DC or 24V AC
- VdS variant available in combination with VdS variant of the DMS recorder series (VdS CertiSec Pack®)
- DIN EN 50130-4 compliant

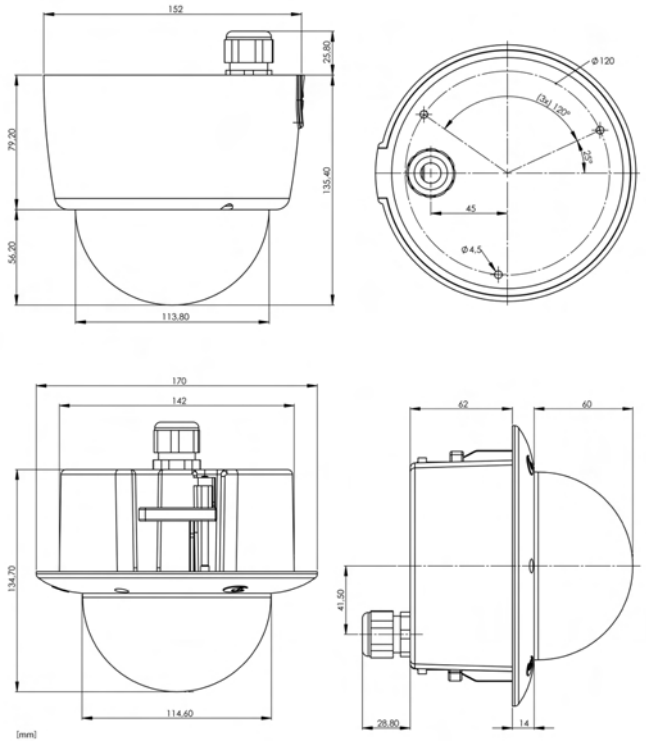
1) The use of IR corrected Day/Night lenses is recommended for IR lighting; Day lenses are only suitable for CasinoCam variants.

Variants

200.404.03.101	DDF3000AV4-DN PAL / Day-Night / white / clear bubble / surface mount variant / suitable for IR lighting HiRes vari-focal lens F0.95/ 2.9-8mm
200.404.03.102	DDF3000AV4-DN PAL / Day-Night / white / clear bubble / surface mount variant / suitable for IR lighting HiRes vari-focal lens F1.5/ 15-50mm
200.404.03.201	DDF3000AV4-D CasinoCam PAL / Day / white / clear bubble / surface mount variant HiRes vari-focal lens F0.95/ 2.8-8mm
200.404.03.202	DDF3000AV4-D CasinoCam PAL / Day / white / clear bubble / surface mount variant HiRes vari-focal lens F1.5/ 15-50mm
200.404.04.101	DDF3000AV4-DN PAL / Day-Night / white / clear bubble / in-ceiling mount variant / suitable for IR lighting HiRes vari-focal lens F0.95/ 2.9-8mm
200.404.04.102	DDF3000AV4-DN PAL / Day-Night / white / clear bubble / in-ceiling mount variant / suitable for IR lighting HiRes vari-focal lens F1.5/ 15-50mm
200.404.04.201	DDF3000AV4-D CasinoCam PAL / Day / white / clear bubble / in-ceiling mount variant HiRes vari-focal lens F0.95/ 2.8-8mm
200.404.04.202	DDF3000AV4-D CasinoCam PAL / Day / white / clear bubble / in-ceiling mount variant HiRes vari-focal lens F1.5/ 15-50mm

Options

200.404.03.01.01	Clear bubble, for dome cameras
200.404.03.01.02	Tinted bubble, for dome cameras
200.404.04.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale for in-ceiling mount variants, For enquires please contact design@dallmeier.com
200.401.2.09.01	Preview adapter cable, phone jack 3.5mm on BNC
200.433	Privacy Zone Box, for analogue cameras, More information can be found in our Partner Forum under "Documentations".
200.440	PicoRemote, UTC Remote Box for analogue Cam_inPIX® cameras, More information can be found in our Partner Forum under "Documentations".
200.515	Power Inserter, for the voltage supply of UTP ready cameras via DIS-2/M UTP modules (only in combination with DPU-240W or DPU-480W)
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.511	DPU-240W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.434.1.001	MicroStreamer-PoE, PAL / grey



DDF3000A3(-DN)

Availability upon request The DDF3000A3(-DN) is a HiRes UWDR Cam_inPIX® colour minidome with tri-axial gimbal adjustment.

- Horizontal resolution: 540 TV lines
- 1/3" DPS* sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- Pure 17-bit Digital Signal Processing
- High sensitivity for low-light images at F1.2, 50IRE: 0.8 lux and (-DN) 0.3 lux
- Progressive image capture
- Progressive With Segmented Frames (PsF) image data transmission
- ICR function for Day/Night switching
- Advanced noise reduction
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- HiRes vari-focal lens with F1.2/ f=2.9-10mm, Day [1)]
- Configuration via UTC commands
- Tri-axial gimbal adjustment
- DIN EN 50130-4 compliant

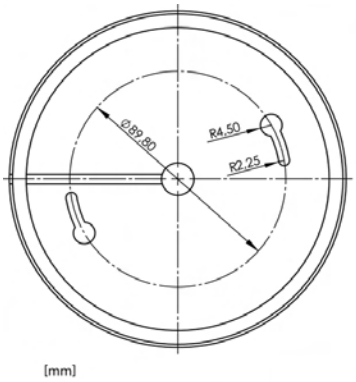
1) The use of IR corrected Day/Night lenses is recommended for IR lighting; Day lenses are only suitable for CasinoCam variants.

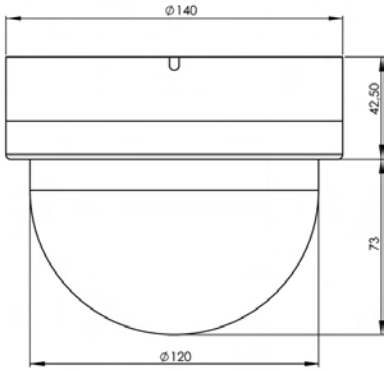
Variants

200.401.8.001	DDF3000A3-D PAL / Day / black / clear bubble / 12V DC HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.002	DDF3000A3-D PAL / Day / black / clear bubble / 12V DC HiRes vari-focal lens F1.5/ 9-22mm
200.401.8.007	DDF3000A3-D PAL / Day / grey / clear bubble / 12V DC HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.008	DDF3000A3-D PAL / Day / grey / clear bubble / 12V DC HiRes vari-focal lens F1.5/ 9-22mm
200.401.8.009	DDF3000A3-D PAL / Day / white / clear bubble / 12V DC HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.010	DDF3000A3-D PAL / Day / white / clear bubble / 12V DC HiRes vari-focal lens F1.5/ 9-22mm
200.401.8.017	DDF3000A3-D PAL / Day / white / clear bubble / 12V DC and 24V AC HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.100	DDF3000A3-DN PAL / Day-Night / black / clear bubble / suitable for IR lighting / 12V DC, HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.101	DDF3000A3-DN PAL / Day-Night / black / clear bubble / suitable for IR lighting / 12V DC, HiRes vari-focal lens F1.5/ 9-22mm
200.401.8.106	DDF3000A3-DN PAL / Day-Night / grey / clear bubble / suitable for IR lighting / 12V DC, HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.107	DDF3000A3-DN PAL / Day-Night / grey / clear bubble / suitable for IR lighting / 12V DC, HiRes vari-focal lens F1.5/ 9-22mm
200.401.8.108	DDF3000A3-DN PAL / Day-Night / white / clear bubble / suitable for IR lighting / 12V DC, HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.109	DDF3000A3-DN PAL / Day-Night / white / clear bubble / suitable for IR lighting compatible / 12V DC, HiRes vari-focal lens F1.5/ 9-22mm
200.401.8.114	DDF3000A3-DN PAL / Day-Night / white / clear bubble / suitable for IR lighting / 12V DC and 24V AC, HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.200	DDF3000A3-D CasinoCam PAL / Day / black / clear bubble / 12V DC HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.201	DDF3000A3-D CasinoCam PAL / Day / black / clear bubble / 12V DC and 24V AC HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.202	DDF3000A3-D CasinoCam PAL / Day / black / clear bubble / 12V DC HiRes vari-focal lens F1.5/ 9-22mm
200.401.8.203	DDF3000A3-D CasinoCam PAL / Day / black / clear bubble / 12V DC and 24V AC HiRes vari-focal lens F1.5/ 9-22mm
200.401.8.204	DDF3000A3-D CasinoCam PAL / Day / grey /clear bubble / 12V DC HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.205	DDF3000A3-D CasinoCam PAL / Day / grey / clear bubble / 12V DC and 24V AC HiRes vari-focal lens F1.2/ 2.9-10mm
200.401.8.206	DDF3000A3-D CasinoCam PAL / Day / white / clear bubble / 12V DC HiRes vari-focal lens F1.2/ 2.9-10mm

Options

200.401.1.01.01	Clear bubble for dome cameras
200.401.1.01.02	Tinted bubble, for dome cameras
200.401.2.09.01	Preview adapter cable, phone jack 3.5mm on BNC
200.433	Privacy Zone Box, for analogue cameras, More information can be found in our Partner Forum under "Documentations".
200.440	PicoRemote, UTC Remote Box for analogue Cam_inPIX® cameras, More information can be found in our Partner Forum under "Documentations".
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.511	DPU-240W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.434.1.001	MicroStreamer-PoE, PAL / grey





DF3000A-DN

The DF3000A-DN is a HiRes UWDR Cam_inPIX® colour box camera.

- Horizontal resolution: 540 TV lines
- 1/3" DPS* sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- Pure 17-bit Digital Signal Processing
- High sensitivity for low-light images at F0.95, 50IRE: 0.5 lux and (-DN) 0.2 lux
- Progressive image capture
- Progressive With Segmented Frames (PsF) image data transmission
- ICR function for Day/Night switching
- Advanced noise reduction
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- Configuration via UTC commands
- Power supply: 12V DC or 24V AC
- Standard version delivered without lens [1)]
- DIN EN 50130-4 compliant

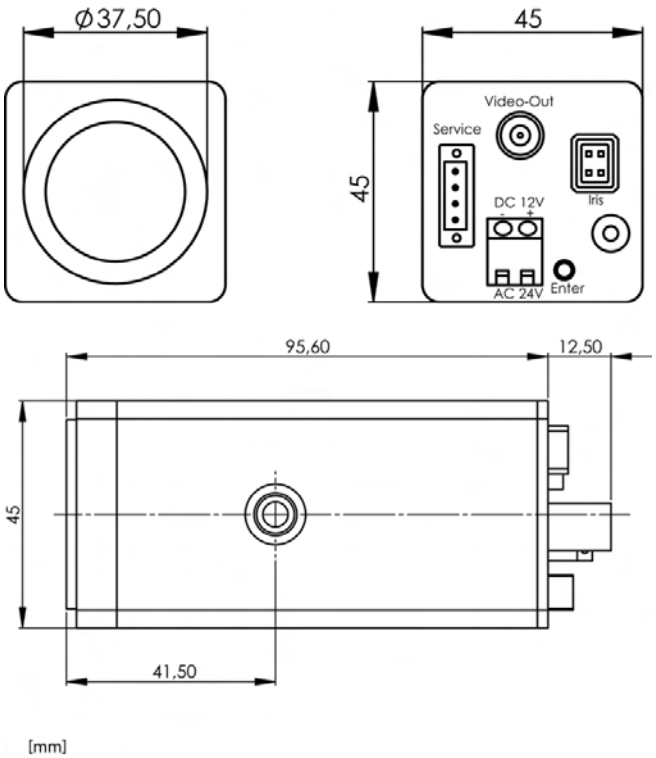
1) The use of IR corrected Day/Night lenses is recommended for IR lighting; Day lenses are only suitable for CasinoCam variants.

Variants

200.400.1.100	DF3000A-DN PAL / Day-Night / grey without lens
200.400.1.200	DF3000A-D CasinoCam PAL / Day / grey HiRes vari-focal lens F0.95/ 2.8-8mm
200.400.1.202	DF3000A-D CasinoCam PAL / Day / grey HiRes vari-focal lens F1.5/ 15-50mm

Options

200.400.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale., For enquires please contact design@dallmeier.com
200.433	Privacy Zone Box, for analogue cameras, More information can be found in our Partner Forum under "Documentations".
200.440	PicoRemote, UTC Remote Box for analogue Cam_inPIX® cameras, More information can be found in our Partner Forum under "Documentations".
210.400.2	Fujinon F0.95/ 2.8-8mm D, HiRes vari-focal lens / Day / not IR corrected
210.400.3	Fujinon F1.5/ 15-50mm DN, HiRes vari-focal lens / Day-Night / IR corrected
210.400.4	Fujinon F0.95/ 2.9-8mm DN, HiRes vari-focal lens / Day-Night / IR corrected
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.511	DPU-240W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.300.1.001	Weather-proof housing Sun with mounted box camera, Operational from normal to very high ambient temperatures, ranging from -20°C to +60°C; with mounted camera including fan, heater, sun shield and wall mount, Please note that camera must be ordered separately
200.300.2.001	Weather-proof housing Sun for box camera, Operational from normal to very high ambient temperatures, ranging from -20°C to +60°C;, including fan, heater, sun shield and wall mount
200.301.1.001	Weather-proof housing Arctic with mounted box camera, Operational from very low temperatures of -55°C up to +45°C; with mounted camera including heater, sun shield, power supply unit and wall mount, Please note that camera must be ordered separately
200.301.2.001	Weather-proof housing Arctic for box camera, Operational from very low temperatures of -55°C up to +45°C; including heater, sun shield, power supply unit and wall mount
200.434.1.001	MicroStreamer-PoE, PAL / grey



DF3000AS-DN

The DF3000AS-DN is a HiRes UWDR Cam_inPIX® colour box camera.

- Horizontal resolution: 540 TV lines
- 1/3" DPS* sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- Pure 17-bit Digital Signal Processing
- High sensitivity for low-light images at F0.95, 50IRE: 0.5 lux and (-DN) 0.2 lux
- Progressive image capture
- Progressive With Segmented Frames (PsF) image data transmission
- ICR function for Day/Night switching
- Advanced noise reduction
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- Configuration via UTC commands
- Practical small size
- Power supply: 12V DC
- Standard version delivered without lens [1)]
- DIN EN 50130-4 compliant

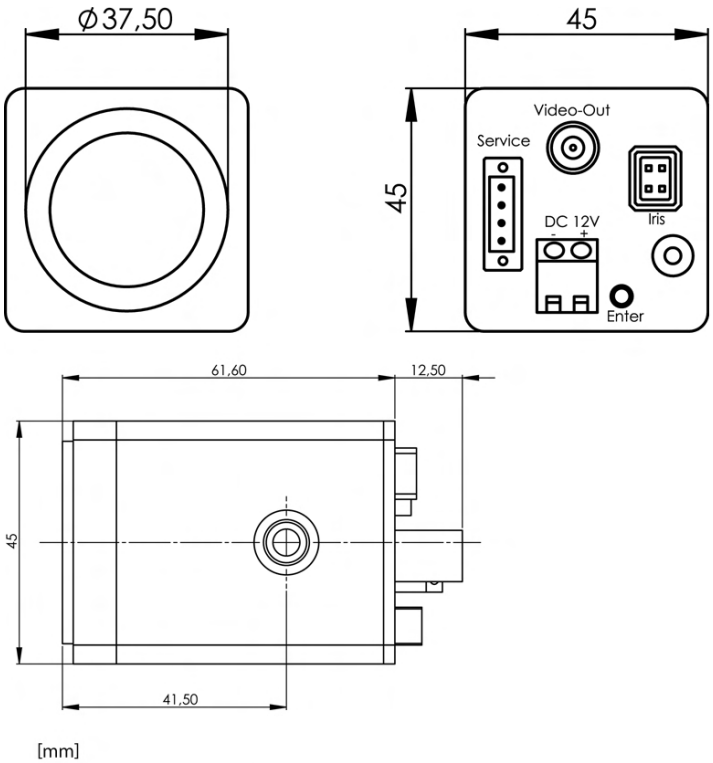
1) The use of IR corrected Day/Night lenses is recommended for IR lighting; Day lenses are only suitable for CasinoCam variants.

Variants

200.400.2.100	DF3000AS-DN PAL / Day-Night / grey without lens
200.400.2.200	DF3000AS-D CasinoCam PAL / Day / grey HiRes vari-focal lens F0.95/ 2.8-8mm
200.400.2.203	DF3000AS-D CasinoCam PAL / Day / grey HiRes vari-focal lens F1.5/ 15-50mm
200.400.2.251	DF3000AS-D Design CasinoCam PAL / Day / carbon effect high gloss finish HiRes vari-focal lens F0.95/ 2.8-8mm
200.400.2.252	DF3000AS-D Design CasinoCam PAL / Day / carbon effect high gloss finish HiRes vari-focal lens F1.5/ 15-50mm
200.400.2.253	DF3000AS-D Design CasinoCam PAL / Day / dark walnut matt HiRes vari-focal lens F0.95/ 2.8-8mm
200.400.2.254	DF3000AS-D Design CasinoCam PAL / Day / dark walnut matt finish HiRes vari-focal lens F1.5/ 15-50mm
200.400.2.255	DF3000AS-D Design CasinoCam PAL / Day / dark burl wood high gloss finish HiRes vari-focal lens F0.95/ 2.8-8mm
200.400.2.256	DF3000AS-D Design CasinoCam PAL / Day / dark burl wood high gloss finish HiRes vari-focal lens F1.5/ 15-50mm
200.400.2.257	DF3000AS-D Design CasinoCam PAL / Day / bright burl wood high gloss finish HiRes vari-focal lens F0.95/ 2.8-8mm
200.400.2.258	DF3000AS-D Design CasinoCam PAL / Day / bright burl wood high gloss finish HiRes vari-focal lens F1.5/ 15-50mm
200.400.2.259	DF3000AS-D Design CasinoCam PAL / Day / marble black/white high gloss finish HiRes vari-focal lens F0.95/ 2.8-8mm
200.400.2.260	DF3000AS-D Design CasinoCam PAL / Day / marble black/white high gloss finish HiRes vari-focal lens F1.5/ 15-50mm
200.400.2.300	DF3000AS-DN DesignCam PAL / Day-Night / carbon effect high gloss finish without lens
200.400.2.301	DF3000AS-DN DesignCam PAL / Day-Night / dark walnut matt finish without lens
200.400.2.302	DF3000AS-DN DesignCam PAL / Day-Night / dark burl wood high gloss finish without lens
200.400.2.303	DF3000AS-DN DesignCam PAL / Day-Night / bright burl wood high gloss finish without lens
200.400.2.304	DF3000AS-DN DesignCam PAL / Day-Night / marble black/white high gloss finish without lens

Options

200.400.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale., For enquires please contact design@dallmeier.com
100.043	Voltage converter 24V AC on 12V DC
200.433	Privacy Zone Box, for analogue cameras, More information can be found in our Partner Forum under "Documentations".
200.440	PicoRemote, UTC Remote Box for analogue Cam_inPIX® cameras, More information can be found in our Partner Forum under "Documentations".
210.400.2	Fujinon F0.95/ 2.8-8mm D, HiRes vari-focal lens / Day / not IR corrected
210.400.3	Fujinon F1.5/ 15-50mm DN, HiRes vari-focal lens / Day-Night / IR corrected
210.400.4	Fujinon F0.95/ 2.9-8mm DN, HiRes vari-focal lens / Day-Night / IR corrected
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.300.1.001	Weather-proof housing Sun with mounted box camera, Operational from normal to very high ambient temperatures, ranging from -20°C to +60°C; with mounted camera including fan, heater, sun shield and wall mount, Please note that camera must be ordered separately
200.300.2.001	Weather-proof housing Sun for box camera, Operational from normal to very high ambient temperatures, ranging from -20°C to +60°C;, including fan, heater, sun shield and wall mount
200.301.1.001	Weather-proof housing Arctic with mounted box camera, Operational from very low temperatures of -55°C up to +45°C; with mounted camera including heater, sun shield, power supply unit and wall mount, Please note that camera must be ordered separately
200.301.2.001	Weather-proof housing Arctic for box camera, Operational from very low temperatures of -55°C up to +45°C; including heater, sun shield, power supply unit and wall mount
200.434.1.001	MicroStreamer-PoE, PAL / grey



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DF3000AXS

The DF3000AXS is a HiRes UWDR Cam_inPIX® colour box camera.

- Horizontal resolution: 540 TV lines
- 1/3" DPS* sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- 17-bit Digital Signal Processing
- High sensitivity at F0.95, 50IRE: 0.5 lux
- Progressive image capture
- Progressive With Segmented Frames (PsF) image data transmission
- Electronic Day/Night switching [1)]
- Advanced noise reduction
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- Configuration via UTC commands
- Practical small size
- Power supply: 12V DC
- Standard version delivered without lens
- DIN EN 50130-4 compliant

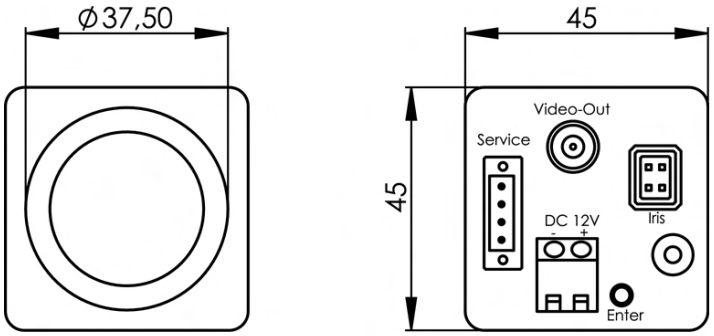
1) The electronic Day/Night switching is not realised through a mechnically switchable IR cut filter. Therefore, there is no ICR function available and hence no IR sensitivity.

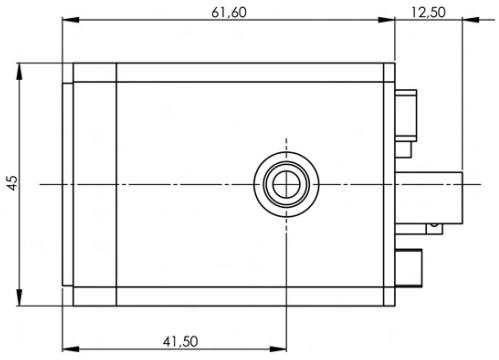
Variants

200.400.7.100	DF3000AXS-DN PAL / electr. Day-Night / grey without lens

Options

200.400.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale., For enquires please contact design@dallmeier.com
100.043	Voltage converter 24V AC on 12V DC
200.433	Privacy Zone Box, for analogue cameras, More information can be found in our Partner Forum under "Documentations".
200.440	PicoRemote, UTC Remote Box for analogue Cam_inPIX® cameras, More information can be found in our Partner Forum under "Documentations".
210.400.2	Fujinon F0.95/ 2.8-8mm D, HiRes vari-focal lens / Day / not IR corrected
210.400.3	Fujinon F1.5/ 15-50mm DN, HiRes vari-focal lens / Day-Night / IR corrected
210.400.4	Fujinon F0.95/ 2.9-8mm DN, HiRes vari-focal lens / Day-Night / IR corrected
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.300.1.001	Weather-proof housing Sun with mounted box camera, Operational from normal to very high ambient temperatures, ranging from -20°C to +60°C; with mounted camera including fan, heater, sun shield and wall mount, Please note that camera must be ordered separately
200.300.2.001	Weather-proof housing Sun for box camera, Operational from normal to very high ambient temperatures, ranging from -20°C to +60°C;, including fan, heater, sun shield and wall mount
200.301.1.001	Weather-proof housing Arctic with mounted box camera, Operational from very low temperatures of -55°C up to +45°C; with mounted camera including heater, sun shield, power supply unit and wall mount, Please note that camera must be ordered separately
200.301.2.001	Weather-proof housing Arctic for box camera, Operational from very low temperatures of -55°C up to +45°C; including heater, sun shield, power supply unit and wall mount
200.434.1.001	MicroStreamer-PoE, PAL / grey





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MDF3000A-CS-DN

The MDF3000A-CS-DN is a HiRes UWDR Cam_inPIX® colour module camera.

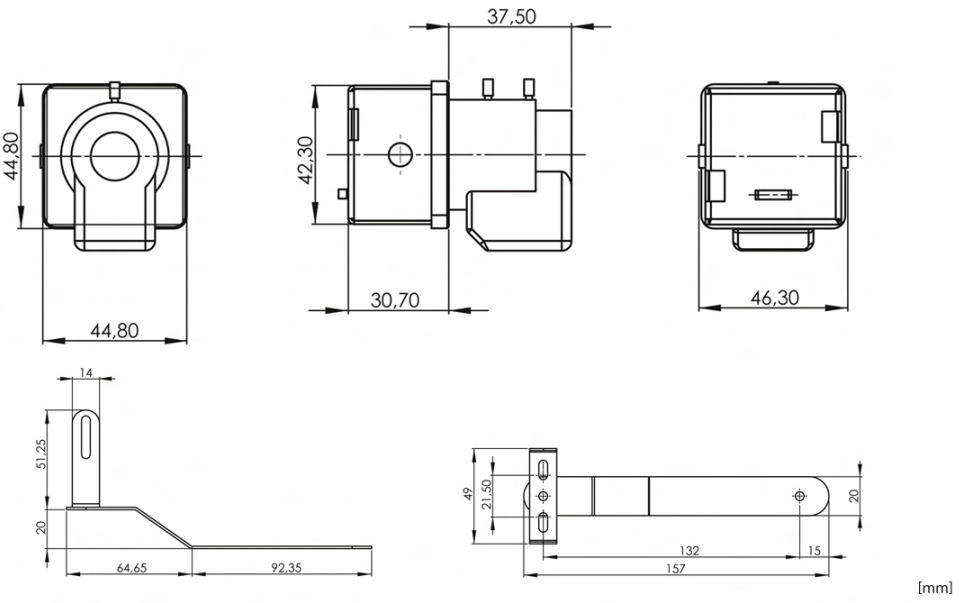
- Horizontal resolution: 540 TV lines
- 1/3" DPS* sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- Pure 17-bit Digital Signal Processing
- High sensitivity for low-light images at F0.95, 50IRE: 0.5 lux and (-DN) 0.2 lux
- Progressive image capture
- Progressive With Segmented Frames (PsF) image data transmission
- ICR function for Day/Night switching
- Advanced noise reduction
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- HiRes vari-focal lens with F0.95/ f=2.8-8mm
- Configuration via UTC commands
- Compact and lightweight camera housing
- Versatile and adjustable mounting device
- DIN EN 50130-4 compliant

Variants

200.400.3.100	MDF3000A-CS-DN PAL / Day-Night/ not suitable for IR lighting HiRes vari-focal lens F0.95/ 2.8-8mm
200.400.3.101	MDF3000A-CS-DN PAL / Day-Night/ suitable for IR lighting HiRes vari-focal lens F0.95/ 2.9-8mm
200.400.3.200	MDF3000A-CS-D CasinoCam PAL / Day HiRes vari-focal lens F0.95/ 2.8-8mm

Options

100.043	Voltage converter 24V AC on 12V DC
200.433	Privacy Zone Box, for analogue cameras, More information can be found in our Partner Forum under "Documentations".
200.440	PicoRemote, UTC Remote Box for analogue Cam_inPIX® cameras, More information can be found in our Partner Forum under "Documentations".
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.434.1.001	MicroStreamer-PoE, PAL / grey



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MDF3000A-M

The MDF3000A-M is a UWDR Cam_inPIX® colour module camera.

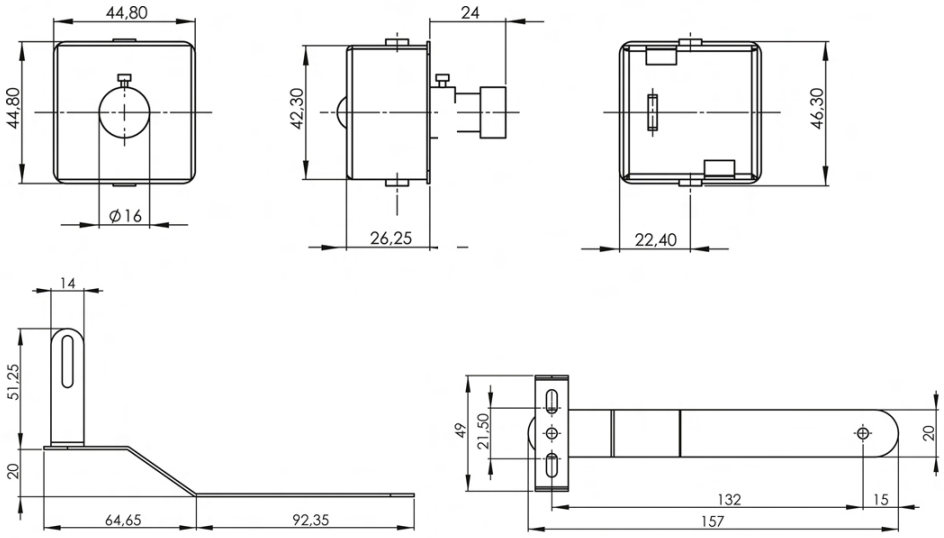
- Horizontal resolution: 540 TV lines
- 1/3" DPS* sensor with Cam_inPIX® technology
- Digital Pixel System* chipset
- Pure 17-bit Digital Signal Processing
- High sensitivity for low-light images at F1.4, 50IRE: 1.0 lux
- Progressive image capture
- Progressive With Segmented Frames (PsF) image data transmission
- Advanced noise reduction
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and extended slow shutter
- Mono-focal lens with F1.4/ f=3.6mm
- IR cut lens coating
- Configuration via UTC commands
- Compact and lightweight camera housing
- Versatile and adjustable mounting device

Variants

200.400.5.003	MDF3000A-M-D PAL / Day HiRes mono-focal lens F2.5/ 2.3mm
200.400.5.005	MDF3000A-M-D PAL / Day mono-focal lens F1.4/ 3.6mm
200.400.5.006	MDF3000A-M-D PAL / Day mono-focal lens F1.8/ 6mm
200.400.5.007	MDF3000A-M-D PAL / Day mono-focal lens F2.0/ 8mm

Options

100.043	Voltage converter 24V AC on 12V DC
200.433	Privacy Zone Box, for analogue cameras, More information can be found in our Partner Forum under "Documentations".
200.440	PicoRemote, UTC Remote Box for analogue Cam_inPIX® cameras, More information can be found in our Partner Forum under "Documentations".
100.042	Universal power pack 110-240V AC / 12V DC, removable adapter EU/UK/US/AUS
200.434.1.001	MicroStreamer-PoE, PAL / grey



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Camera accessories

Design Demo Case

Design Demo Case

High-value sample collection of the Dallmeier DesignCams

Item number: 210.000

Privacy Zone Box

Privacy Zone Box

For use with:
MDF3000A-CS, MDF3000A-M, DF3000A-DN, DF3000AS-DN, DF3000AXS, DDF3000A4-DN, DDF3000APV, DDF3000AV4, MDF3000A-CS CasinoCam, DF3000A-D CasinoCam, DF3000AS-D CasinoCam, DDF3000A4-D CasinoCam, DDF3000AV4 CasinoCam

Item number: 200.433

PicoRemote Box

UTC-Remote-Box

For use with:
MDF3000A-CS, MDF3000A-M, DF3000A-DN, DF3000AS-DN, DF3000AXS, DDF3000A4-DN, DDF3000APV, DDF3000AV4, MDF3000A-CS CasinoCam, DF3000A-D CasinoCam, DF3000AS-D CasinoCam, DDF3000A4-D CasinoCam, DDF3000AV4 CasinoCam

Item number: 200.440

Universal power pack

Universal power pack 110-240V AC / 12V DC

For use with:
MDF3000A-CS, MDF3000A-M, DF3000A-DN, DF3000AS-DN, DF3000AXS, DDF3000A4-DN, DDF3000APV, DDF3000AV4, DDF3000IPV-DN, MDF3000A-CS CasinoCam, DF3000A-D CasinoCam, DF3000AS-D CasinoCam, DDF3000A4-D CasinoCam, DDF3000AV4 CasinoCam, DDF3000IPV-D CasinoCam

Item number: 100.042

Power Supply Unit

DPU-240W Dallmeier Power Supply Unit 240W for 20 cameras

For use with:
DF3000A-DN, DDF3000A4-DN, DDF3000AV4, DF3000IP-PoE-DN, DDF3000IPV-DN, DF3000A-D CasinoCam, DDF3000A4-D CasinoCam, DDF3000AV4 CasinoCam, DF3000IP-PoE-D CasinoCam, DDF3000IPV-D CasinoCam

Item number: 200.511

Power Inserter

Power Inserter for the voltage supply of UTP ready cameras via DIS-2/M UTP modules

For use with:
DF3000A-DN, DDF3000A4-DN, DDF3000AV4, DF3000IP-PoE-DN, DDF3000IPV-DN, DF3000A-D CasinoCam, DDF3000A4-D CasinoCam, DDF3000AV4 CasinoCam, DF3000IP-PoE-D CasinoCam, DDF3000IPV-D CasinoCam

Item number: 200.515

Voltage converter

Voltage converter 24V AC on 12V DC

For use with:
MDF3000A-CS, MDF3000A-M, DF3000AS-DN, DF3000AXS, DDF3000APV, MDF3000A-CS CasinoCam, DF3000AS-D CasinoCam

Item number: 100.043

Preview adapter cable

Preview adapter cable 2.5/3.5 mm phone jack on BNC

For use with:
DF3000IP-PoE-DN, DF3000IP-PoE-D CasinoCam

Item number: 200.402.2.09.01

For use with:
DDF3000A4-DN, DDF3000AV4-DN, , DDF3000A4-D CasinoCam, DDF3000AV4-D CasinoCam

Item number: 200.401.2.09.01

Tinted bubble

Tinted bubble

For use with:
DDF3000A4-DN, DDF3000AV4-DN, DDF3000IPV-DN, DDF3000A4-D CasinoCam, DDF3000AV4-D CasinoCam, DDF3000IPV-DN CasinoCam

Item number: on request

Angular adapter

Angular adapter for surface mount variants, 15° adapter ring, angle of view with wall/ceiling mounting of 90°, lateral cable routing, screw connection at flush-mounted sockets according to DIN 49073

For use with:
DDF3000APV
DDF3000A4-DN, DDF3000A4-D CasinoCam

Item number: 200.401.17.05.11
Item number: 200.404.01.05.11

Mounting ring

Mounting ring for surface mount variants with lateral cable routing and screw connection at flush-mounted sockets according to DIN 49073

For use with:
DDF3000APV
DDF3000A4-DN, DDF3000A4-D CasinoCam

Item number: 200.401.17.05.03
Item number: 200.404.01.05.03

Universal power pack

Universal power pack 240V AC / 24V AC

For use with:
DF3000A-DN, DDF3000A4-DN, DDF3000AV4, DF3000IP-PoE-DN, DDF3000IPV-DN, DF3000A-D CasinoCam, DDF3000A4-D CasinoCam, DDF3000AV4 CasinoCam, DF3000IP-PoE-D CasinoCam, DDF3000IPV-D CasinoCam

Item number: 100.041

Weather-proof housing Sun for box camera

Weather-proof housing Sun for box camera
Operational from normal to very high ambient temperatures, ranging from -20°C to +60°C; including fan, heater, sun shield and wall mount

For use with:
DF3000A-DN, DF3000AS-DN, DF3000AXS

Item number: 200.300.1.001 (with mounted camera)
Item number: 200.300.2.001

Weather-proof housing Arctic for box camera

Weather-proof housing Arctic for box camera
Operational from very low temperatures of -55°C up to +45°C; including heater, sun shield, power supply unit and wall mount

For use with:
DF3000A-DN, DF3000AS-DN, DF3000AXS, DF3000IP-PoE-DN

Item number: 200.301.1.001 (with mounted camera)
Item number: 200.301.2.001

Pole bracket

Pole bracket for weather-proof housing for box cameras

For use with:
DF3000A-DN, DF3000AS-DN, DF3000AXS, DF3000IP-PoE-DN

Item number: 200.400.1.53.01
only in connection with:
item number: 200.300.(1.001/2.001)
or
item number: 200.301.(1.001/2.001)

Corner bracket

Corner bracket for weather-proof housing for box camera

For use with:
DF3000A-DN, DF3000AS-DN, DF3000AXS, DF3000IP-PoE-DN

Lenses

F0.95/2.8-8mm -D- (Fujinon)

Can be ordered for the following camera models:
DF3000A-DN
DF3000AS-DN
DF3000AXS
DF3000IP-PoE-DN

Format: 1/3"
Mount: CS
Type of lens: Vari focal
Principle of construction: Aspherical
Zoom operation: Manual
Focus operation: Manual
Iris drive: DC auto iris

Iris range/ Focal length range: F0.95/ 2,8 - 8 mm

Horizontal angle of view: Approx. 99° - 35°

Item number:
210.400.2

F0.95/2.9-8mm -D/N- (Fujinon)

Can be ordered for the following camera models:
DF3000A-DN
DF3000AS-DN
DF3000AXS
DF3000IP-PoE-DN

Format: 1/3"
Mount: CS
Type of lens: Vari focal
Principle of construction: Aspherical
Zoom operation: Manual
Focus operation: Manual
Iris drive: DC auto iris

Iris range/ Focal length range: F0.95/ 2,9 - 8 mm

Horizontal angle of view: Approx. 94° - 35°

Item number:
210.400.4

F1.5/15-50mm -D/N- (Fujinon)

Can be ordered for the following camera models:
DF3000A-DN
DF3000AS-DN
DF3000AXS
DF3000IP-PoE-DN

Format: 1/3"
Mount: CS
Type of lens: Vari focal
Principle of construction: Aspherical
Zoom operation: Manual
Focus operation: Manual
Iris drive: DC auto iris

Iris range/ Focal lenght range: F1.5/ 15 - 50 mm

Horizontal angle of view: Approx. 18° - 5°

Item number:
210.400.3

CamInPIX® Technology

PTZ and Domera® accessories

Tinted bubble

Tinted bubble

For use with:
DDZ3018A-DN, DDZ3026A(-DN)

Item number: 200.401.7.01.02

Tinted bubble

Tinted bubble for DOMERA®

For use with:
DDZ30XX-IM/HS/(-A/-IP),
DDZ30XX-IM/RP/(-A/-IP) and
DDZ30IM/(-A/-IP)

Item number: 200.401.7.01.01

In-ceiling mount kit

In-ceiling mount kit

For use with:
DDZ3018A-DN, DDZ3026A-DN

Item number: 200.401.4.20.02

Wall mount bracket

Wall mount bracket for weather proof housing

For use with:
DDZ3018A-DN, DDZ3026A-DN,
DDZ30XX-WM/HS/(-A/-IP) and
DDZ30XX-WM/RP/(-A/-IP)
Item number: 200.401.4.52.02

For DDZ3018A-DN and DDZ3026A-DN only in connection with:
Item number: 200.401.4.50.12,
200.401.4.55.02

Wall mount bracket

Wall mount bracket (black, white)

For use with:
DDZ3018A-DN and DDZ3026A-DN
Item number:
200.401.4.10.03/200.401.4.10.02

For use with:
DDZ30XX-SM/HS/(-A/-IP) and
DDZ30XX-SM/RP/(-A/-IP)
Item number: 200.622

Ceiling mount bracket

Ceiling mount bracket for weather-proof housing

For use with:
DDZ30XX-WM/HS/(-A/-IP) and
DDZ30XX-WM/RP/(-A/-IP)
Item number: 200.401.4.51.02

For use with:
DDZ3018A-DN, DDZ3026A-DN
Item number: 200.401.4.51.02
Only in connection with:
Item number: 200.401.4.50.12

Sun shield

Sun shield for weather-proof housing

For use with:
DDZ3018A-DN, DDZ3026A-DN

Item number: 200.401.4.55.02
Only in connection with:
Item number: 200.401.4.50.12

Weather-proof housing

Weather-proof housing -IP67- with fan/ heater

For use with:
DDZ3018A-DN, DDZ3026A-DN

Item number: 200.401.4.50.12

Pole bracket

Pole bracket

For use with:
DDZ3018A-DN, DDZ3026A-DN,
DDZ30XX-WM/HS/(-A/-IP) and
DDZ30XX-WM/RP/(-A/-IP)

Item number: 200.401.4.54.02
Only in connection with:
Item number: 200.401.4.52.02

Corner bracket

Corner bracket

For use with:
DDZ3018A-DN, DDZ3026A-DN,
DDZ30XX-WM/HS/(-A/-IP) and
DDZ30XX-WM/RP/(-A/-IP)

Item number: 200.401.4.53.02
Only in connection with:
Item number: 200.401.4.52.02

Power Supply Unit

DPU-480W Dallmeier Power Supply Unit 480W for 20 cameras

For use with:
DDZ3018A-DN, DDZ3026A-DN,
DDZ30XX-YY/HS/(-A/-IP) and
DDZ30XX-YY/RP/(-A/-IP)

Item number: 200.510

Power Inserter

Power Inserter for the voltage supply of UTP ready cameras via DIS-2/M UTP modules

For use with:
DDZ30XX-YY/HS/A and DDZ30XX-YY/RP/A

Item number: 200.515
Only in connection with:
Item number: 200.510

DDZ30IM-A

Analogue BackBox for DOMERA®

For use with:
DDZ3018-IM/(-HS/-RP),
DDZ3026-IM/(-HS/-RP),
DDZ3036-IM/(-HS/-RP)

Item number: 200.442

DDZ30SM-A

Analogue BackPlate for DOMERA®

For use with:
DDZ3018-SM/(-HS/-RP),
DDZ3026-SM/(-HS/-RP),
DDZ3036-SM/(-HS/-RP)

Item number: 200.448

DDZ30WM-A

Analogue weather-proof housing for DOMERA®

For use with:
DDZ3018-SM/(-HS/-RP),
DDZ3026-SM/(-HS/-RP),
DDZ3036-SM/(-HS/-RP)

Item number: 200.450.007

DDZ30IM-IP

IP BackBox for DOMERA®

For use with:
DDZ3018-IM/(-HS/-RP),
DDZ3026-IM/(-HS/-RP),
DDZ3036-IM/(-HS/-RP)

Item number: 200.441

DDZ30SM-IP

IP BackPlate for DOMERA®

For use with:
DDZ3018-SM/(-HS/-RP),
DDZ3026-SM/(-HS/-RP),
DDZ3036-SM/(-HS/-RP)

Item number: 200.449

DDZ30WM-IP

IP weather-proof housing for DOMERA®

For use with:
DDZ3018-SM/(-HS/-RP),
DDZ3026-SM/(-HS/-RP),
DDZ3036-SM/(-HS/-RP)

Item number: 200.450.001

DDZ30XX-YY/HS

High-Speed PTZ dome camera without I/O interface for DOMERA®

DDZ30XX-SM/HS for use with:
DZ30SM(-A/-IP) and DDZ30WM(-A/-IP)

DDZ30XX-IM/HS for use with:
DZ30IM(-A/-IP)

Item number: 200.447.1
Item number: 200.447.2

DDZ3018-YY/RP

Remote-Positioning PTZ dome camera without I/O interface for DOMERA®

For use with:
DDZ3018A-DN, DDZ3026A-DN,
DDZ3036A-DN, DDZ3032A

Item number: 200.445.18.1
Item number: 200.445.18.2

A more detailed description of the individual components of the DOMERA® series can be found on the following pages.

DDZ301M-A

The analogue BackBox DDZ301M-A is a device for the in-ceiling mounting of the DOMERA® series of PTZ dome cameras.

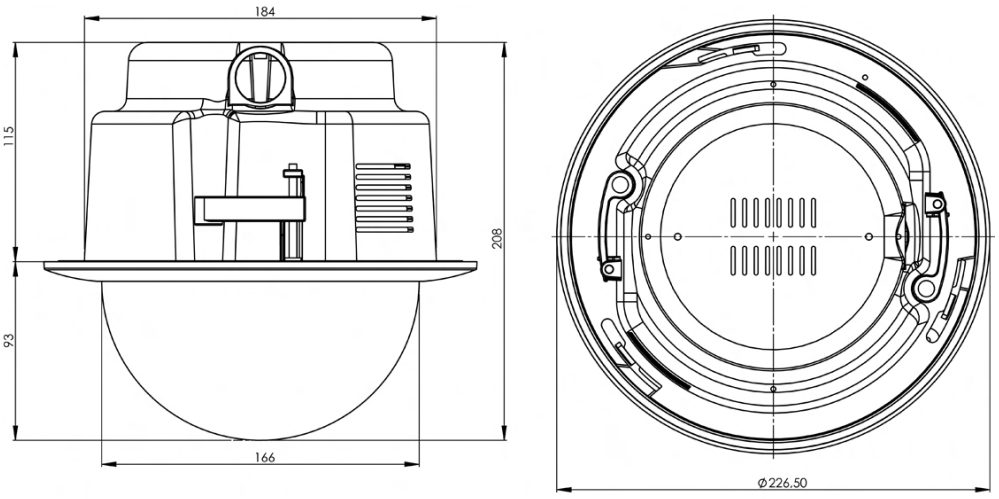
- Integrated analogue I/O interface
- Compatible with the following High-Speed PTZ dome cameras: DDZ3018-IM/(-HS/-RP), DDZ3026-IM/(-HS/-RP) und DDZ3036-IM/(-HS/-RP)
- Integrated UTP output
- Voltage supply: 24/28V AC
- Including clear bubble
- Quick and easy installation
- DIN EN 50130-4 compliant

Variants

200.442	DDZ301M-A analogue BackBox / in-ceiling mount variant / white cover ring / clear bubble

Options

200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
200.620	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant /, white cover ring
200.630	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant / black cover ring
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
200.515	Power Inserter, for the voltage supply of UTP ready cameras via DIS-2/M UTP modules (only in combination with DPU-240W or DPU-480W)
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.447.18.2.100	DDZ3018-IM/HS, PAL / 480 TVL / Day-Night / 18x optical zoom / black / high-speed / in-ceiling mount variant
200.447.26.2.100	DDZ3026-IM/HS, PAL / 480 TVL / Day-Night / 26x optical zoom / black / high-speed / in-ceiling mount variant
200.447.36.2.100	DDZ3036-IM/HS, PAL / 480 TVL / Day-Night / 36x optical zoom / black / high-speed / in-ceiling mount variant
200.448.18.2.100	DDZ3018-IM/HS, PAL / 530 TVL / Day-Night / 18x optical zoom / black / high-speed / in-ceiling mount variant
200.448.26.2.100	DDZ3026-IM/HS, PAL / 530 TVL / Day-Night / 26x optical zoom / black / high-speed / in-ceiling mount variant
200.448.36.2.100	DDZ3036-IM/HS, PAL / 530 TVL / Day-Night / 36x optical zoom / black / high-speed / in-ceiling mount variant



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DDZ3 0IM-IP

The IP BackBox DDZ3 0IM-IP is a device for the in-ceiling mounting of the DOMERA® series of PTZ dome cameras.

- Integrated IP I/O interface
- Compatible with the following high-speed PTZ dome cameras: DDZ3 018-IM/(-HS/-RP), DDZ3 026-IM/(-HS/-RP) and DDZ3 036-IM/(-HS/-RP)
- Hybrid IP I/O interface with analogue preview output
- Video compression: MPEG-2/-4, MJPEG, H.264 [1)]
- Resolution up to D1 and frame rate up to 25 fps at all resolutions
- Integrated motion detection with selectable sensitivity
- Alarm message via email and FTP image upload
- Easy and quick mounting
- DIN EN 50130-4 compliant

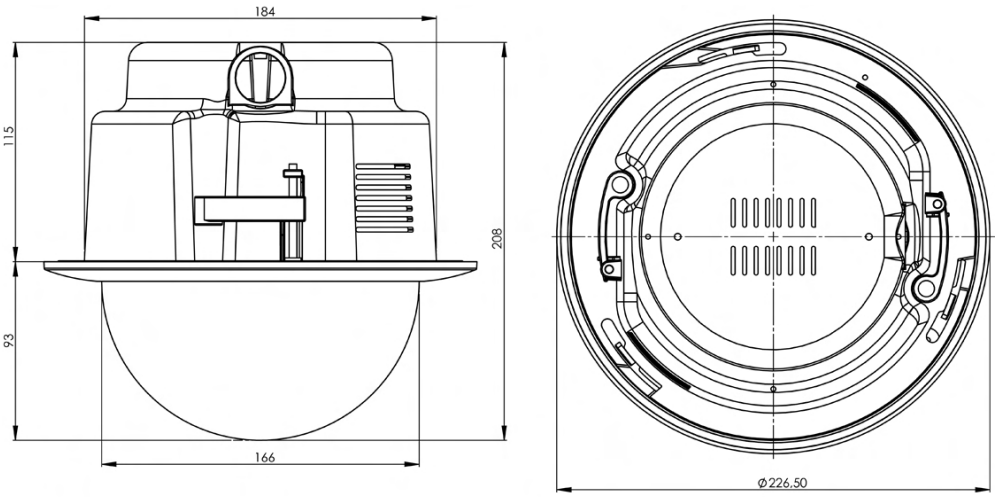
1) In development

Variants

200.441	DDZ3 0IM-IP IP BackBox / in-ceiling mount variant / white cover ring / clear bubble

Options

200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
200.620	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant /, white cover ring
200.630	Tinted bubble, for PTZ dome cameras / in-ceiling mount variant / black cover ring
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.447.18.2.100	DDZ3 018-IM/HS, PAL / 480 TVL / Day-Night / 18x optical zoom / black / high-speed / in-ceiling mount variant
200.447.26.2.100	DDZ3 026-IM/HS, PAL / 480 TVL / Day-Night / 26x optical zoom / black / high-speed / in-ceiling mount variant
200.447.36.2.100	DDZ3 036-IM/HS, PAL / 480 TVL / Day-Night / 36x optical zoom / black / high-speed / in-ceiling mount variant
200.448.18.2.100	DDZ3 018-IM/HS, PAL / 530 TVL / Day-Night / 18x optical zoom / black / high-speed / in-ceiling mount variant
200.448.26.2.100	DDZ3 026-IM/HS, PAL / 530 TVL / Day-Night / 26x optical zoom / black / high-speed / in-ceiling mount variant
200.448.36.2.100	DDZ3 036-IM/HS, PAL / 530 TVL / Day-Night / 36x optical zoom / black / high-speed / in-ceiling mount variant



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DDZ30SM-A

The analogue BackPlate DDZ30SM-A is a device for the surface mounting of the DOMERA® series of PTZ dome cameras.

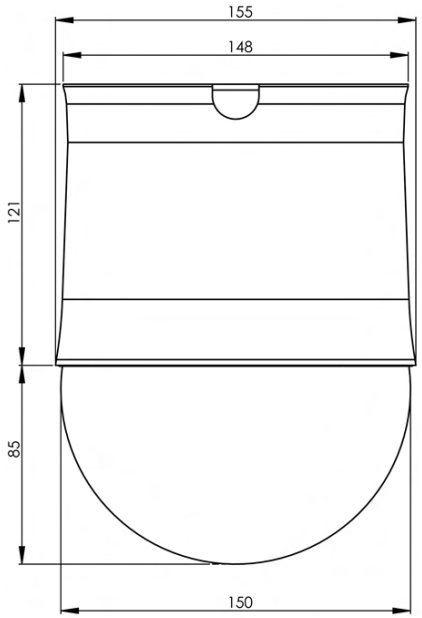
- Integrated analogue I/O interface
- Compatible with the following high-speed PTZ dome cameras: DDZ3018-SM/(-HS/-RP), DDZ3026-SM/(-HS/-RP) and DDZ3036-SM/(-HS/-RP)
- Integrated UTP output
- Power supply: 24/28V AC
- Including clear bubble
- Quick and easy installation
- DIN EN 50130-4 compliant

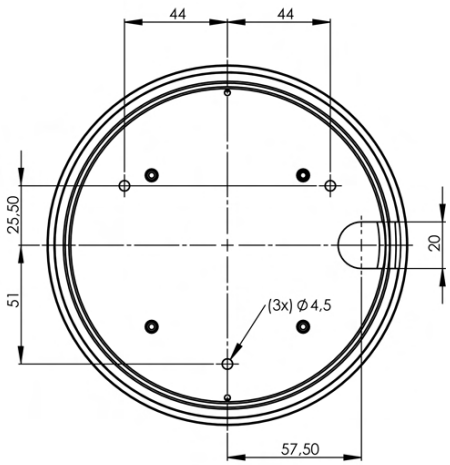
Variants

200.448	DDZ30SM-A analogue BackPlate / surface mount variant / black / clear bubble

Options

200.622	Wall mount bracket, for PTZ domes surface mount variant / black
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
200.515	Power Inserter, for the voltage supply of UTP ready cameras via DIS-2/M UTP modules (only in combination with DPU-240W or DPU-480W)
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.447.18.1.100	DDZ3018-SM/HS, PAL / 480 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.447.26.1.100	DDZ3026-SM/HS, PAL / 480 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.447.36.1.100	DDZ3036-SM/HS, PAL / 480 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant
200.448.18.1.100	DDZ3018-SM/HS, PAL / 530 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.448.26.1.100	DDZ3026-SM/HS, PAL / 530 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.448.36.1.100	DDZ3036-SM/HS, PAL / 530 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant





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DDZ30SM-IP

The IP BackPlate DDZ30SM-IP is a device for the surface mounting of the DOMERA® series of PTZ dome cameras.

- Integrated IP I/O interface
- Compatible with the following high-speed PTZ dome cameras: DDZ3018-SM/(-HS/-RP), DDZ3026-SM/(-HS/-RP) and DDZ3036-SM/(-HS/-RP)
- Hybrid IP I/O interface with analogue preview output
- Video compression: MPEG-2/-4, MJPEG, H.264 [1)]
- Resolution up to D1 and frame rate up to 25 fps at all resolutions
- Integrated motion detection with selectable sensitivity
- Alarm message via email and FTP image upload
- Power supply: 24/28V AC
- Including clear bubble
- Easy and quick mounting
- DIN EN 50130-4 compliant

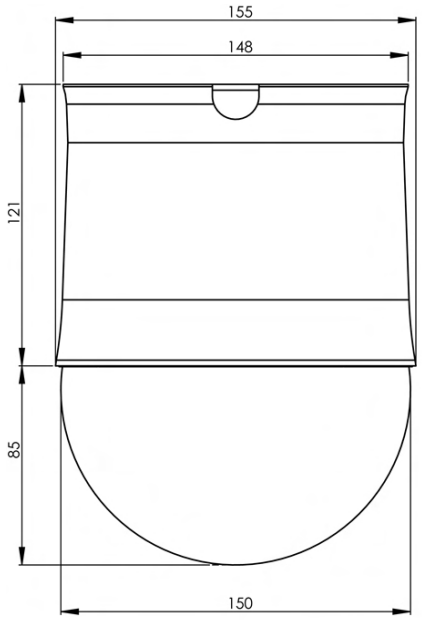
1) In development

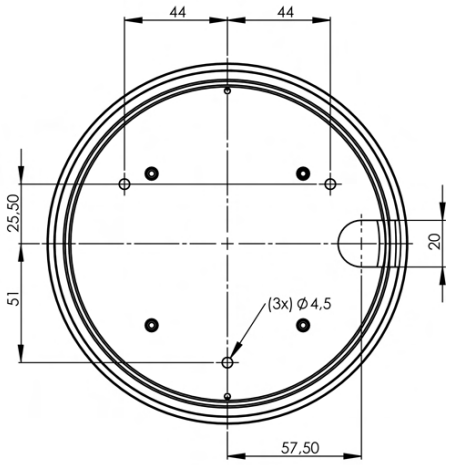
Variants

200.449	DDZ30SM-IP IP BackPlate / surface mount variant / black / clear bubble

Options

200.622	Wall mount bracket, for PTZ domes surface mount variant / black
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.447.18.1.100	DDZ3018-SM/HS, PAL / 480 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.447.26.1.100	DDZ3026-SM/HS, PAL / 480 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.447.36.1.100	DDZ3036-SM/HS, PAL / 480 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant
200.448.18.1.100	DDZ3018-SM/HS, PAL / 530 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.448.26.1.100	DDZ3026-SM/HS, PAL / 530 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.448.36.1.100	DDZ3036-SM/HS, PAL / 530 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant





[mm]

DDZ30WM-A

The DDZ30WM-A is an analogue weather-proof housing for the PTZ dome system DOMERA®.

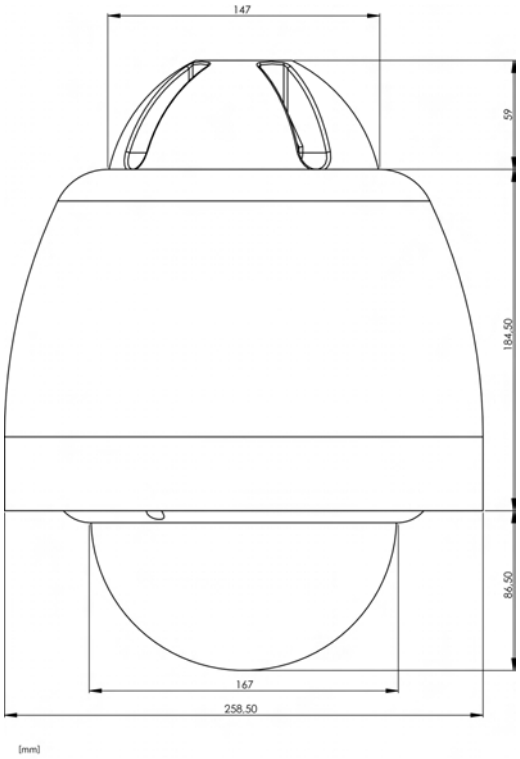
- Integrated analogue I/O interface
- Compatible with the following high-speed PTZ dome cameras: DDZ3018-SM/(-HS/-RP), DDZ3026-SM/(-HS/-RP) and DDZ3036-SM/(-HS/-RP)
- Integrated fan, heater and sun shield
- Integrated UTP output
- Max. power consumption 64 W
- Power supply: 24/28V AC
- Including clear bubble
- Quick and easy installation
- DIN EN 50130-4 compliant

Variants

200.450.007	DDZ30WM-A analogue weather-proof housing / white / clear bubble

Options

200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.52.02	Wall mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
200.447.18.1.100	DDZ3018-SM/HS, PAL / 480 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.447.26.1.100	DDZ3026-SM/HS, PAL / 480 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.447.36.1.100	DDZ3036-SM/HS, PAL / 480 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant
200.448.18.1.100	DDZ3018-SM/HS, PAL / 530 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.448.26.1.100	DDZ3026-SM/HS, PAL / 530 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.448.36.1.100	DDZ3036-SM/HS, PAL / 530 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant



DDZ30WM-IP

The DDZ30WM-IP is an IP based weather-proof housing for the PTZ dome system DOMERA®.

- Compatible with the following high-speed PTZ dome cameras: DDZ3018-SM/(-HS/-RP), DDZ3026-SM/(-HS/-RP) and DDZ3036-SM/(-HS/-RP)
- Hybrid IP I/O interface with analogue preview output
- Video compression: MPEG-2/-4, MJPEG, H.264 1)
- Resolution up to D1 and frame rate up to 25 fps at all resolutions
- Integrated motion detection with selectable sensitivity
- Alarm message via email and FTP image upload
- Integrated fan, heater and sun shield
- Max. power consumption: 64 W
- Power supply: 24/28V AC
- Easy and quick mounting
- DIN EN 50130-4 compliant

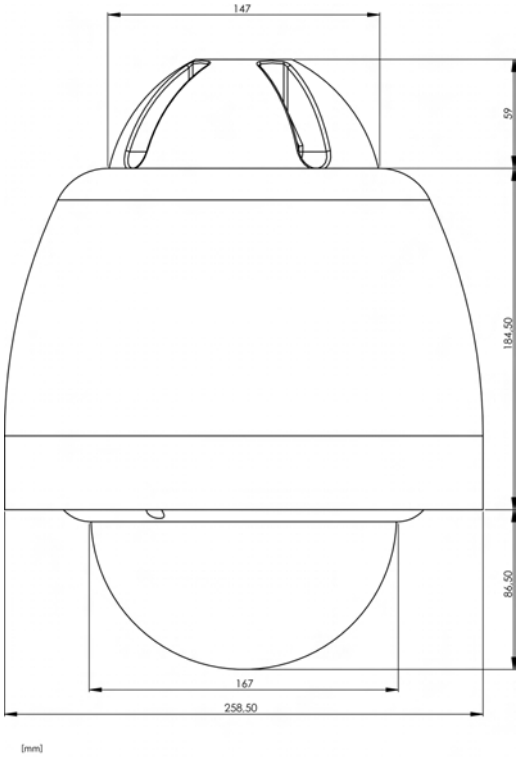
1) In development

Variants

200.450.001	DDZ30WM-IP IP weather-proof housing / white / clear bubble

Options

200.401.4.51.02	Ceiling mount bracket, for weather-proof housing / white
200.401.4.52.02	Wall mount bracket, for weather-proof housing / white
200.401.4.53.02	Corner bracket, for wall mount bracket for weather-proof housing / white
200.401.4.54.02	Pole bracket, for wall mount bracket for weather-proof housing / white
200.447.18.1.100	DDZ3018-SM/HS, PAL / 480 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.447.26.1.100	DDZ3026-SM/HS, PAL / 480 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.447.36.1.100	DDZ3036-SM/HS, PAL / 480 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant
200.448.18.1.100	DDZ3018-SM/HS, PAL / 530 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.448.26.1.100	DDZ3026-SM/HS, PAL / 530 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.448.36.1.100	DDZ3036-SM/HS, PAL / 530 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant



DDZ30XX-YY/HS

The DDZ30XX-YY/HS is a HiRes Wide Dynamic Range high-speed PTZ colour dome camera for the DOMERA® series.

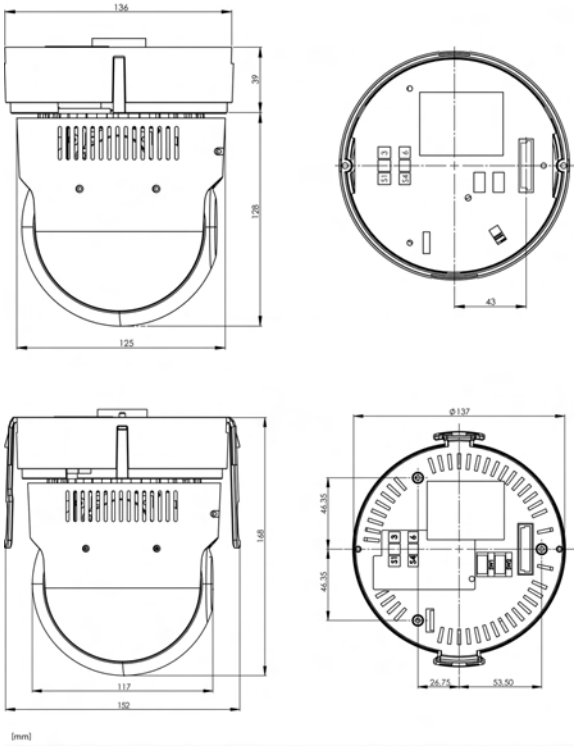
- Horizontal resolution: up to 530 TV lines
- 1/4" EXview HAD CCD* image sensor
- Pure Digital Signal Processing
- Three WDR high-speed PTZ domes with 18x / 26x / 36x optical zoom are available
- Additional 12x digital zoom
- High sensitivity for low-light images
- ICR function for Day/Night switching
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and slow shutter
- Autofocus with manual override
- High-performance Pan/Tilt/Zoom mechanism
- 248 programmable preset positions, 16 programmable tours
- Motion detection integrated
- DDZ30XX-SM/HS is compatible with the following mounting devices: DDZ30SM-A, DDZ30SM-IP, DDZ30WM-A, DDZ30WM-IP
- DDZ30XX-IM/HS is compatible with the following mounting devices: DDZ30IM-A, DDZ30IM-IP
- Power supply: 24/28V AC
- Easy and quick installation
- DIN EN 50130-4 compliant

Variants

200.447.18.1.100	DDZ3018-SM/HS PAL / 480 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.447.18.2.100	DDZ3018-IM/HS PAL / 480 TVL / Day-Night / 18x optical zoom / black / high-speed / in-ceiling mount variant
200.447.26.1.100	DDZ3026-SM/HS PAL / 480 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.447.26.2.100	DDZ3026-IM/HS PAL / 480 TVL / Day-Night / 26x optical zoom / black / high-speed / in-ceiling mount variant
200.447.36.1.100	DDZ3036-SM/HS PAL / 480 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant
200.447.36.2.100	DDZ3036-IM/HS PAL / 480 TVL / Day-Night / 36x optical zoom / black / high-speed / in-ceiling mount variant
200.448.18.1.100	DDZ3018-SM/HS PAL / 530 TVL / Day-Night / 18x optical zoom / black / high-speed / surface mount variant
200.448.18.2.100	DDZ3018-IM/HS PAL / 530 TVL / Day-Night / 18x optical zoom / black / high-speed / in-ceiling mount variant
200.448.26.1.100	DDZ3026-SM/HS PAL / 530 TVL / Day-Night / 26x optical zoom / black / high-speed / surface mount variant
200.448.26.2.100	DDZ3026-IM/HS PAL / 530 TVL / Day-Night / 26x optical zoom / black / high-speed / in-ceiling mount variant
200.448.36.1.100	DDZ3036-SM/HS PAL / 530 TVL / Day-Night / 36x optical zoom / black / high-speed / surface mount variant
200.448.36.2.100	DDZ3036-IM/HS PAL / 530 TVL / Day-Night / 36x optical zoom / black / high-speed / in-ceiling mount variant

Options

200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
200.510	DPU-480W Dallmeier Power Supply Unit, 24/28V AC for the supply of up to 20x cameras, More information can be found in our Partner Forum under "Documentations".
200.441	DDZ30IM-IP, IP BackBox / in-ceiling mount variant / white cover ring / clear bubble
200.442	DDZ30IM-A, analogue BackBox / in-ceiling mount variant / white cover ring / clear bubble
200.448	DDZ30SM-A, analogue BackPlate / surface mount variant / black / clear bubble
200.449	DDZ30SM-IP, IP BackPlate / surface mount variant / black / clear bubble
200.450.001	DDZ30WM-IP, IP weather-proof housing / white / clear bubble
200.450.007	DDZ30WM-A, analogue weather-proof housing / white / clear bubble



DDZ3018-YY/RP

The DDZ3018-YY/RP is a HiRes Remote-Positioning PTZ colour dome camera for the DOMERA® series.

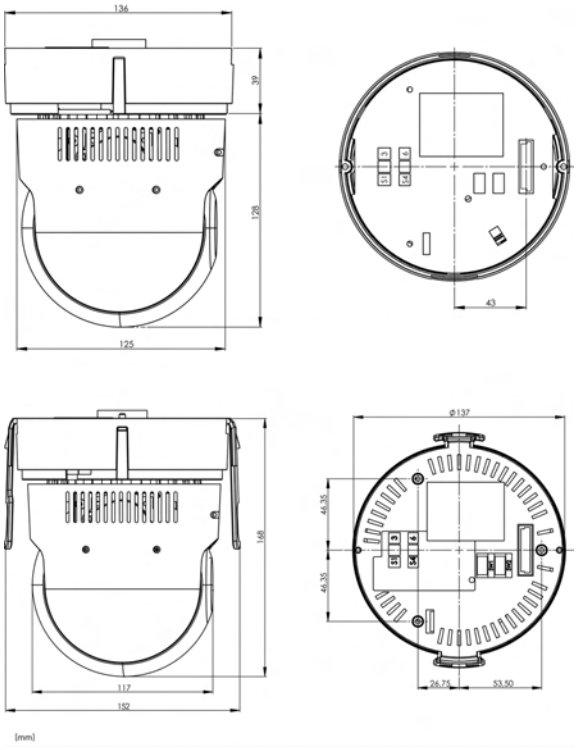
- Horizontal resolution: 480 TV lines
- 1/4" EXview HAD CCD* image sensor
- Pure Digital Signal Processing
- 18x optical zoom are available
- Additional 12x digital zoom
- High sensitivity for low-light images
- Enhanced image quality by means of numerous control functions like AWB, AGC, BLC and slow shutter
- Autofocus with manual override
- Remote-Positioning Pan/Tilt/Zoom mechanism
- 8 programmable preset positions
- DDZ3018-SM/RP is compatible with the following mounting devices: DDZ30SM-A, DDZ30SM-IP, DDZ30WM-A, DDZ30WM-IP
- DDZ3018-IM/RP is compatible with the following mounting devices: DDZ30IM-A, DDZ30IM-IP
- Power supply: 24/28V AC
- Easy and quick installation
- DIN EN 50130-4 compliant

Variants

200.445.18.1.001	DDZ3018-SM/RP PTZ dome camera without I/O interface PAL / Day / black / remote positioning / surface mount variant / 18x optical zoom
200.445.18.2.001	DDZ3018-IM/RP PTZ dome camera without I/O interface PAL / Day / black / remote positioning / in-ceiling mount variant / 18x optical zoom

Options

200.441.999	Design colours: Depending on customer demand, housing colour available according to PAL or Pantone colour scale / for in-ceiling mount variants., For enquires please contact design@dallmeier.com
200.441	DDZ30IM-IP, IP BackBox / in-ceiling mount variant / white cover ring / clear bubble
200.442	DDZ30IM-A, analogue BackBox / in-ceiling mount variant / white cover ring / clear bubble
200.448	DDZ30SM-A, analogue BackPlate / surface mount variant / black / clear bubble
200.449	DDZ30SM-IP, IP BackPlate / surface mount variant / black / clear bubble
200.450.001	DDZ30WM-IP, IP weather-proof housing / white / clear bubble
200.450.007	DDZ30WM-A, analogue weather-proof housing / white / clear bubble



DesignCams

High-tech security in its most elegant form

In the DesignCams Dallmeier combines state-of-the-art technology with aesthetic perfection to produce comprehensive, high-quality surveillance solutions. Sophisticated architecture and high-value interior design now harmonise with security technology in its most elegant form

The idea
A camera is first of all a tool which has to fulfil its purpose: Capturing high-quality images. But who says that reliable functionality and high-quality design are mutually contradictory?

Many customers demand more than just a technically sound product. Besides quality, performance and reliability, the product's design and exclusivity are also important factors influencing the purchasing decision. Dallmeier is the first video security system manufacturer who has addressed this matter and developed its cameras accordingly. Cameras that integrate into any environment and blend in with any decor.

With the DesignCams you are free to choose: The cameras turn into eye-catchers thanks to their classy design that stands out, or they become more discreet through an appearances that matches the ambience of the surroundings. Then your video surveillance won't look as if it is technical equipment added later but instead it will be part of the overall interior design. The equipment will effectively be an ornament of the room which creates a very special atmosphere.

Design

DesignCams

The variety
With the Dallmeier DesignCams you can choose from a range of designs, create your own design or use shade codes to select a colour which matches a given decor. The possibilities are unlimited!

The techniques used by Dallmeier for the finishing of the cameras allow for a variety of designs. Hence, you order cameras which have been manufactured according to your individual wishes and which blend in perfectly with your interior design.

For the optical composition of the cameras you can choose from the entire Pantone and RAL colour ranges. Or you can get completely customised design. At Dallmeier you can obtain cameras in your company colour, to match a carpet, or in your own exclusive design directly from the manufacturer.

DesignCams

CamInPIX® Technology

The technology

The Dallmeier DesignCams combine the latest technology with aesthetic perfection, because all DesignCams are equipped with the innovative ***CamInPIX***® technology.

Dallmeier is the world's only developer and manufacturer of this advanced technology, which is already being used in many CCTV/IP projects. With this cutting-edge camera technology it is now possible to solve familiar problems of the video surveillance technology that have previously been deemed unsolvable with the use of conventional technology. The most extreme light conditions, such as backlighting or images that are constantly changing due to environmental influences, can be mastered even in extreme situations using the ***CamInPIX***® technology.

With this UWDR technology (Ultra Wide Dynamic Range), the Dallmeier cameras have the advantage over all previously known processes in that they can display considerably more details in shaded and very bright sections of a picture.

Design demo case

Design Demo Case

High-Tech Security in its most elegant form

DesignCams

The Design Demo Case is a high-value sample collection of the Dallmeier DesignCams. The appealing and robust metal case contains all design variants that are constantly available from stock. The Design Demo Case offers a unique opportunity to showcase the DesignCams to your end customer and to convey a realistic impression of the noble optical design and the fascinating elegance of the cameras!

- 12x design rings for Picodome® in-ceiling variant (burl wood dark high-polish, burl wood bright high-polish, walnut wood matt, marble high-polish, carbon black/silver, gold gleaming, gold brushed, copper brushed, chrome, chrome black, silver, white)
- 5x design rings for Picodome® surface variant (burl wood dark high-polish, burl wood bright high polish, walnut wood matt, marble high-polish, carbon high-polish)
- 1x fully functional DDF3000APV camera, surface variant standard (white cover ring)
- 1x sample Picodome® surface variant standard (white cover ring)
- 1x sample Picodome® in-ceiling variant standard (white cover ring)
- 5x sample box cameras (burl wood dark high-polish, burl wood bright high-polish, walnut wood matt, marble high-polish, carbon high-polish)
- 1x PicoRemote Box
- 2x design brochures German
- 2x design brochures English

Options	
210.000	Design demo case

Overview HD cameras

DDF4010HDV

DDF4110HDV

Sensor	1/3" Full High-Definition CMOS sensor with Cam_inPIX®	1/3" Full High-Definition CMOS sensor with Cam_inPIX®
Signal processing	Digital Signal Processing	Digital Signal Processing
Image capture	Interlaced / progressive	Progressive
Transfer format	Progressive (full image)	Progressive (full image)
Image resolution	Up to 1920 x 1080 (Full HD, native resolution)	Up to 1280 x 720 (HD)
B/W and colour mode	Automatic / manual	Automatic / manual
Day/Night functionality	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching
Light sensitivity	At F1.8, 30IRE: 2 lux, (-DN) 0.2 lux	At F1.8, 30IRE: 2 lux, (-DN) 0.2 lux
Zoom	Optical: 10x, digital: 12x	Optical: 10x, digital: 12x
Focus	Automatic, one push, manual	Automatic, one push, manual
Shutter speed	1/2 s to 1/10000 s (in 21 steps)	1/2 s to 1/10000 s (in 21 steps)
Signal to noise ratio (SNR)	> 50 dB	> 50 dB
Digital noise reduction (DNR)	On/Off	On/Off
Brightness adjustment (ALC/AE)	Automatic / manual	Automatic / manual
Backlight compensation (BLC)	On/Off	On/Off
Automatic gain control (AGC)	Automatic / manual (-3 to +18 dB in 8 steps)	Automatic / manual (-3 to +18 dB in 8 steps)
Gamma correction	Automatic / manual	Automatic / manual
Adjustable white balance	AWB, MWB, One push WB, indoor, outdoor	AWB, MWB, One push WB, indoor, outdoor
AE presets	6 presets	6 presets
Configuration	Via web browser	Via web browser
Languages	English, German, French, Spanish, Hungarian	English, German, French, Spanish, Hungarian
Motion detection (VMD)	With selectable sensitivity	With selectable sensitivity
Alarm notification	Via e-mail and ftp upload	Via e-mail and ftp upload
SmartZoom	Integrated	Integrated
Lens specifications		
Iris range/ focal length range	F1.8–F2.1/ 5.1-51 mm	F1.8–F2.1/ 5.1-51 mm
Iris control	DC auto iris	DC auto iris
Horizontal angle of view	Approx. 50° - 5.4°	Approx. 50° - 5.4°
IR filtering	Included IR Cut filter	Included IR Cut filter
Adjustable vertical angle of vision	Wide end: 88.5°, tele end: 75° (for a display without shadowing)	Wide end: 88.5°, tele end: 75° (for a display without shadowing)
HD standard	-	SMPTE 296M
Format and coding		
Video/audio compression	H.264, MJPEG / G.722, MPEG-1 Layer 2	H.264, MJPEG / G.722, MPEG-1 Layer 2
HD standards	SMPTE 296M, SMPTE 274M	-
Frame rate	Up to 50 fps (depending on the resolution)	Up to 30 fps
Video/audio bit rate	Up to 16 Mbps (6 Mbps typical)/ up to 384 kbps	Up to 16 Mbps (6 Mbps typical) / up to 384 kbps
Resolution	SD, HD (720p, 1080i, 1080p)	SD, HD (720p)
Video streaming	Multi streaming simultaneous: H.264 and MJPEG with independently adjustable resolutions, frame and bit rates of the individual streams	Multi streaming simultaneous: H.264 and MJPEG with independently adjustable resolutions, frame and bit rates of the individual streams
Multi streaming frame rate	Up to 25 fps with maximal resolution	Up to 25 fps with maximal resolution
Interfaces		
Video outputs	1x CVBS/3.5 mm phone jack (preview: analogue SD output)	1x CVBS/3.5 mm phone jack (preview: analogue SD output)
Audio inputs	1x 3.5 mm phone jack (Line IN, stereo)	1x 3.5 phone jack (Line IN, stereo)
Audio outputs	1x 3.5 mm phone jack (stereo)	1x 3.5 phone jack (stereo)
Ethernet	1x RJ45, 10BASE-T-/100BASE-TX-PoE	1x RJ45, 10BASE-T-/100BASE-TX-PoE
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP
Local video memory	Via integrated USB-/SD-port	Via integrated USB-/SD-port
Video buffer	64MB RAM ring storage (pre- and post alarm, network failure compensation)	64MB RAM ring storage (pre- and post alarm, network failure compensation)
Contact IN / relay OUT	3x IN / 1x OUT	3x IN / 1x OUT
Serial	1x RS485 (full-duplex)	1x RS485 (full-duplex)
Programming interface	Open API for 3rd party systems integration via Dallmeier ActiveX*	Open API for 3rd party systems integration via Dallmeier ActiveX*
Further specifications		
Video norm	HDTV, SDTV (PAL/NTSC)	HDTV, SDTV (PAL/NTSC)
Voltage supply	24V AC +/- 10% (50/60 Hz) or via PoE (class 0)	24V AC +/- 10% (50/60 Hz) or via PoE (class 0)
PoE conformity	IEEE 802.3af (no PoE adapter required)	IEEE 802.3af (no PoE adapter required)
Power consumption	PoE Class 0: max. 12.94 W, 24V AC: max. 15.2 W (in-ceiling and surface mount variant) 24V AC: max. 79.2 W (weather-proof variant)	PoE Class 0: max. 12.94 W, 24V AC: max. 15.2 W (in-ceiling and surface mount variant) 24V AC: max. 79.2 W (weather-proof variant)
Dimensions	Approx. Ø 186.1 x H 158.6 mm (surface mount variant) Approx. Ø 193 x H 164.4 mm (in-ceiling mount variant) Approx. Ø 259 x H 330 mm (Weather-proof variant)	Approx. Ø 186.1 x H 158.6 mm (surface mount variant) Approx. Ø 193 x H 164.4 mm (in-ceiling mount variant) Approx. Ø 259 x H 330 mm (weather-proof variant)
Weight	Approx. 2000 g (in-ceiling and surface mount variant) Approx. 4100 g (weather-proof variant)	Approx. 2000 g (in-ceiling and surface mount variant) Approx. 4100 g (weather-proof variant)
Operating temperature	Surface mount variant (in- and outdoor): -10°C - 40°C In-ceiling mount variant (indoor): 0°C - 35°C Weather-proof variant (outdoor): -30°C - 50°C	Surface mount variant (in- and outdoor): -10°C - 40°C In-ceiling mount variant (indoor): 0°C - 35°C Weather-proof variant (outdoor): -30°C - 50°C
Humidity	0% - 90% RH non-condensing	0% - 90% RH non-condensing
IP rating	IP67 (surface mount and weather-proof variant)	IP67 (surface mount and weather-proof variant)
Approvals/certifications	CE, FCC, UL, ACA, CB, DIN EN 50130-4	CE, FCC, UL, ACA, CB, DIN EN 50130-4

Overview DOMERA® HD

DDZ4010-YY/HS/HD DOMERA®

DDZ4110-YY/HS/HD DOMERA®

Sensor	1/3" Full High-Definition CMOS sensor with Cam_inPIX®	1/3" Full High-Definition CMOS sensor with Cam_inPIX®
Signal processing	Digital Signal Processing	Digital Signal Processing
Image capture	Interlaced / progressive	Progressive
Transfer format	Progressive (full image)	Progressive (full image)
Image resolution	Up to 1920 x 1080 (Full HD, native resolution)	Up to 1280 x 720 (HD)
B/W and colour mode	Automatic / manual	Automatic / manual
Day/Night functionality	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching
Light sensitivity	At F1.8, 30 IRE: 2 lux; (-DN) 0.2 lux	At F1.8, 30 IRE: 2 lux, (-DN) 0.2 lux
Zoom	Optical: 10x, digital 12x	Optical: 10x, digital 12x
Focus	Automatic, one push, manual	Automatic, one push, manual
Flip function	Available	Available
Shutter speed	1/2 s to 1/10000 s (in 21 steps)	1/2 s to 1/10000 s (in 21 steps)
Signal to noise ratio (SNR)	> 50 dB	> 50 dB
Digital noise reduction (DNR)	On/Off	On/Off
Brightness adjustment (ALC/AE)	Automatic / manual	Automatic / manual
Backlight compensation (BLC)	On/Off	On/Off
Automatic gain control (AGC)	Automatic / manual (-3 to +18 dB in 8 steps)	Automatic / manual (-3 to +18 dB in 8 steps)
Gamma correction	Automatic / manual	Automatic / manual
Adjustable white balance	AWB, MWB, One push WB, Indoor, Outdoor	AWB, MWB, One push WB, Indoor, Outdoor
AE presets	6 presets	6 presets
Configuration	Via web browser	Via web browser
Languages	English, spanish, german	English, Spanish, German
Motion detection (VMD)	With selectable sensitivity	With selectable sensitivity
Alarm notification	Via e-mail and ftp upload	Via e-mail and ftp upload
SmartZoom	Integrated	Integrated
Functions		
Pan/ Tilt	360° endless / 0° - 180°	360° endless / 0° - 180°
Variable speed	Pan:120°/s, tilt:120°/s (Turbo: 420°/s)	Pan:120°/s, tilt:120°/s (Turbo: 420°/s)
Preset speed	Pan: 420°/s, tilt:420°/s (+/- 0,1°)	Pan: 420°/s, tilt:420°/s (+/- 0,1°)
Programmable preset positions	248 positions	248 positions
Programmable tours	16 (8 tours, 8 pattern)	16 (8 tours, 8 pattern)
Auto Scan, auto pan	16 scans, 1 pan	16 scans, 1 pan
Lens specifications		
Iris range/ focal length range	F 1.8 – F2.1/ 5,1-51mm	F 1.8 – F2.1/ 5.1-51mm
Iris control	DC auto iris	DC auto iris
Horizontal angle of view	Approx. 50° - 5,4°	Approx. 50° - 5.4°
IR filtering	Included IR Cut filter	Included IR Cut filter
Format and coding		
Video/audio compression	H.264, MJPEG / G.722, MPEG-1 Layer 2	H.264, MJPEG / G.722, MPEG-1 Layer 2
HD standards	SMPTE 296M, SMPTE 274M	SMPTE 296M
Frame rate	Up to 50 fps (depending on resolution)	Up to 30 fps
Video/audio bit rate	Up to 16 Mbps (6 Mbps typical) / up to 384 kbps	Up to 16 Mbps (6 Mbps typical) / up to 384 kbps
Resolution	SD, HD (720p, 1080i, 1080p)	SD, HD (720p)
Video streaming	Multi streaming simultaneous: H.264 and MJPEG with independently adjustable resolutions, frame and bit rates of the individual streams	Multi streaming simultaneous: H.264 and MJPEG with independently adjustable resolutions, frame and bit rates of the individual streams
Multi streaming frame rate	Up to 25 fps with maximal resolution	Up to 25 fps with maximal resolution
Interfaces		
Video outputs	1x CVBS/3.5 mm phone jack (preview: analogue SD output)	1x CVBS/3.5 mm phone jack (preview: analogue SD output)
Audio inputs	1x 3.5 mm phone jack (Line IN, stereo)	1x 3.5 mm phone jack (Line IN, stereo)
Audio outputs	1x 3.5 mm phone jack (stereo)	1x 3.5 mm phone jack (stereo)
Ethernet	1 x RJ45, 10BASE-T-/100BASE-TX-PoE	1 x RJ45, 10BASE-T-/100BASE-TX
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP
Local video memory	Via integrated USB-/SD-port	Via integrated USB-/SD-port
Video buffer	64MB RAM ring storage (pre- and post alarm, network failure compensation)	64MB RAM ring storage (pre- and post alarm, network failure compensation)
Contact IN / relay OUT	3x IN / 1x OUT	3x IN / 1x OUT
Serial	1x RS485 (full-duplex)	1x RS485 (full-duplex)
Programming interface	Open API for 3rd party systems integration via Dallmeier ActiveX*	Open API for 3rd party systems integration via Dallmeier ActiveX*
Further specifications		
Video norm	HDTV, SDTV (PAL/NTSC)	HDTV, SDTV (PAL/NTSC)
Voltage supply	24/28V AC +/- 10% (50/60 Hz)	24/28V AC +/- 10% (50/60 Hz)
Power consumption	DDZ4010-IM/HS/HD: max. 25 W DDZ4010-SM/HS/HD: max. 25 W DDZ4010-WM/HS/HD: max. 89 W	DDZ4110-IM/HS/HD: max. 25 W DDZ4110-SM/HS/HD: max. 25 W DDZ4110-WM/HS/HD: max. 89 W
Dimensions	DDZ4010-IM/HS/HD: ca. Ø 227 x H 208 mm DDZ4010-SM/HS/HD: approx. Ø 155 x H 206 mm DDZ4010-WM/HS/HD: approx. Ø 259 x H 330 mm	DDZ4110-IM/HS/HD: approx. Ø 227 x H 208 mm DDZ4110-SM/HS/HD: approx. Ø 155 x H 206 mm DDZ4110-SM/HS/HD: approx. Ø 259 x H 330 mm
Weight	DDZ4010-IM/HS/HD: approx. 2025 g DDZ4010-SM/HS/HD: approx. 1755 g DDZ4010-WM/HS/HD: approx. 4425 g	DDZ4110-IM/HS/HD: approx. 2025 g DDZ4110-SM/HS/HD: approx. 1755 g DDZ4110-WM/HS/HD: approx. 4425 g
Operating temperature	DDZ4010-IM/HS/HD (indoor): 0°C - 35°C DDZ4010-SM/HS/HD (indoor): -10°C - 40°C DDZ4010-WM/HS/HD (outdoor): -30°C - 50°C	DDZ4010-IM/HS/HD (indoor): 0°C - 35°C DDZ4010-SM/HS/HD (indoor): -10°C - 40°C DDZ4010-WM/HS/HD (outdoor): -30°C - 50°C
Humidity	0% - 90% RH non-condensing	0% - 90% RH non-condensing
IP rating	IP67 (weather-proof variant)	IP67 (weather-proof variant)
Approvals/certifications	CE, FCC, UL, ACA, CB, DIN EN 50130-4	CE, FCC, UL, ACA, CB, DIN EN 50130-4

Overview analogue cameras

MDF3000A-CS-DN

MDF3000A-M

DF3000A-DN

DF3000AS-DN

Sensor	1/3" CMOS sensor with Cam_inPIX®	1/3" CMOS sensor with Cam_inPIX®	1/3" CMOS sensor with Cam_inPIX®	1/3" CMOS sensor with Cam_inPIX®
Signal Processing	17-bit Digital Signal Processing	17-bit Digital Signal Processing	17-bit Digital Signal Processing	17-bit Digital Signal Processing
Dynamic range	102 dB typical - 120 dB max	102 dB typical - 120 dB max	102 dB typical - 120 dB max	102 dB typical - 120 dB max.
Image capture	Progressive	Progressive	Progressive	Progressive
Transfer format	PsF -Progressive With Segmented Frames	PsF -Progressive With Segmented Frames	PsF -Progressive With Segmented Frames	PsF -Progressive With Segmented Frames
Image resolution	720 H x 540 V pixels	720 H x 540 V pixels	720 H x 540 V pixels	720 H x 540 V pixels
Horizontal resolution	540 TV lines	540 TV lines	540 TV lines	540 TV lines
B/W and colour mode	Colour mode also in night mode selectable	Yes	Colour mode also in night mode selectable	Colour mode also in night mode selectable
Day/Night functionality	Mechanical ICR function for Day/Night switching	-	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching
Light sensitivity	At F0.95, 50IRE: 0.5 lux, (DN) 0.2 lux	At F1.4, 50IRE: 1.0 lux	At F0.95, 50IRE: 0.5 lux, (-DN) 0.2 lux	At F0.95, 50IRE: 0.5 lux, (-DN) 0.2 lux
Zoom	Digital 4x	Digital 4x	Digital 4x	Digital 4x
Slow Shutter	Up to 8x	Up to 8x	Up to 8x	Up to 8x
Signal to noise ratio (SNR)	> 48 dB	> 48 dB	> 48 dB	> 48 dB
Brightness adjustment (ALC/AE)	Automatic / manual	Automatic / manual	Automatic / maunal	Automatic / manual
Backlight compensation (BLC)	Adjustable backlight zone	Adjustable backlight zone	Adjustable backlight zone	Adjustable backlight zone
Automatic gain control (AGC)	Brightness and gain limit adjustable 0-48 dB	Brightness and gain limit adjustable 0-48 dB	Brightness and gain limit adjusable 0-48 dB	Brightness and gain limit adjustable 0-48 dB
Gamma correction	Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual
Adjustable white balance	ATW, AWB, MWB (2000K to 11000K)	ATW, AWB, MWB (2000K to 11000K)	ATW, AWB, MWB (2000K to 11000K)	ATW, AWB, MWB (2000K to 11000K)
Synchronisation	Internal	Internal	Internal, AC Line Lock	Internal
AE presets	7 presets	7 presets	7 presets	7 presets
Configuration	Outlined OSD: remote-controlled via UTC commands	Outlined OSD: remote-controlled via UTC commands	Outlined OSD: remote-controlled via UTC commands or at the camera via integrated joystick	Outlined OSD: remote-controlled via UTC commands or at the camera via integrated joystick
Languages	English	English	English	English
Signal format (video)	CVBS, 75 Ohm	CVBS, 75 Ohm	CVBS, 75 Ohm	CVBS, 75 Ohm
Privacy zones	Via Privacy Zone Box	Via Privacy Zone Box	Via Privacy Zone Box	Via Privacy Zone Box
Lens specifications				
Mount	CS mount, C mount with 5 mm adapter	Ø 12 mm thread mount	CS mount, C mount with 5 mm adapter	CS mount, C mount with 5 mm adapter
Iris range/ focal length range	F0.95/ 2.8-8 mm -D-	F1.4/ 3.6 mm -D-	Standard version delivered without lens	Standard version delivered without lens
Iris control	DC auto Iris	Fixed iris	DC auto iris	DC auto iris
Horizontal angle of view	Wide end: 99°, tele end: 35°	Approx. 83°	-	-
IR filtering	Integrated IR Cut filter	IR Cut coating	Integrated IR Cut filter	Included IR Cut filter
Lens variants	F0.95/ 2.9-8 mm, IR corrected -DN-	F2.5/ 2.3 mm -D- F1.8/ 6 mm -D- F2.0/ 8 mm -D-	F0.95/ 2.8-8 mm -D- F0.95/ 2.9-8 mm, IR corrected -DN- F1.5/ 15-50 mm, IR corrected -DN-	F0.95/ 2.8-8 mm -D-
CasinoCam camera variants	With the lens F0.95/ 2.8-8 mm	-	Only with the lenses F0.95/ 2.8-8 mm and F1.5/ 15-50 mm	Only with the lenses F0.95/ 2.8-8 mm and F1.5/ 15-50 mm
Further specifications				
Video norm	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)
Video outputs	1x CVBS/BNC	1x CVBS/BNC	1x CVBS/BNC	1x CVBS/BNC
Voltage supply	12V DC +/- 10%	12V DC +/- 10%	12V DC, 24V AC +/- 10% (50/60 Hz)	12V DC +/- 10%
Power consumption	Max. 2 W	Max. 1.7W	Max. 3 W	Max. 2.1 W
Mechanical adjusting	-	-	-	-
Dimensions	Approx. W 47 x H 45 x L 71 mm	Approx. W 47 x H 45 x L 53 mm	Approx. W 45 x H 45 x L 108 mm	Approx. W 45 x H 45 x L 73 mm
Weight	Approx. 146 g	Approx. 90 g	Approx. 220 g	Approx. 160 g
Operating temperature	-10°C - 45°C, recommended 0°C - 35°C	-10°C - 45°C, recommended 0°C - 35°C	-10°C - 45°C, recommended 0°C - 35°C	-10°C - 45°C, recommended 0°C - 35°C
Humidity	0% - 90% RH non-condensing	0% - 90% RH non-condensing	0% - 90% RH non-condensing	0% - 90% RH non-condensing
IP rating	-	-	-	-
Approvals/certifications	CE, FCC, ACA, CB, UVV-Kassen, DIN EN 50130-4	CE	CE, FCC, UL, ACA, UVV-Kassen, CB, DIN EN 50130-4	CE, FCC, UL, ACA, UVV-Kassen, CB, DIN EN 50130-4

Overview analogue cameras

DF3000AXS

DDF3000APV Picodome®

DDF3000A4-DN

DDF3000AV4-DN

DDF3000A3(-DN)

1/3" CMOS sensor with Cam_inPIX®	1/3" CMOS sensor with Cam_inPIX®	1/3" CMOS sensor with Cam_inPIX®	1/3" CMOS sensor with Cam_inPIX®	1/3" CMOS sensor with Cam_inPIX®
17-bit Digital Signal Processing	17-bit Digital Signal Processing	17-bit Digital Signal Processing	17-bit Digital Signal Processing	17-bit Digital Signal Processing
102 dB typical - 120 dB max.	102 dB typical - 120 dB max.	102 dB typical - 120 dB max.	102 dB typical - 120 dB max.	102 dB typical - 120 dB max
Progressive	Progressive	Progressive	Progressive	Progressive
PsF -Progressive With Segmented Frames	PsF -Progressive With Segmented Frames	PsF -Progressive With Segmented Frames	PsF -Progressive With Segmented Frames	PsF -Progressive With Segmented Frames
720 H x 540 V pixels	720 H x 540 V pixels	720 x 540 pixels	720 H x 540 V pixels	720 H x 540 V pixels
540 TV lines	540 TV lines	540 TV lines	540 TV lines	540 TV lines
Colour mode only in day mode selectable	Yes	Colour mode also in night mode selectable	Colour mode also in night mode selectable	Colour mode also in night mode selectable
Electronic switching (no mechanical ICR function)	-	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching
At F0.95, 50IRE: 0.5 lux	At F1.4, 50IRE: 1.0 lux	At F1.2, 50IRE: 0.8 lux, (-DN) 0.3 lux	At F0.95, 50IRE: 0.5 lux, (-DN) 0.2 lux	At F1.2, 50IRE: 0.8 lux, (-DN) 0.3 lux
Digital 4x	Digital 4x	Digital 4x	Digital 4x	Digital 4x
Up to 8x	Up to 8x	Up to 8x	Up to 8x	Up to 8x
> 48 dB	> 48 dB	> 48 dB	> 48 dB	> 48 dB
Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual
Adjustable backlight zone	Adjustable backlight zone	Adjustable backlight zone	Adjustable backlight zone	Adjustable backlight zone
Brightness and gain limit adjustable 0-48 dB	Brightness and gain limit adjustable 0-48 dB	Brightness and gain limit adjustable 0-48 dB	Brightness and gain limit adjustable 0-48 dB	Brightness and gain limit adjustable 0-48 dB
Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual
ATW, AWB, MWB (2000K to 11000K)	ATW, AWB, MWB (2000K to 11000K)	ATW, AWB, MWB (2000K to 11000K)	ATW, AWB, MWB (2000K to 11000K)	ATW, AWB, MWB (2000K to 11000K)
Internal	Internal	Internal, AC Line Lock	Internal, AC Line Lock	Internal
7 presets	7 presets	7 presets	7 presets	7 presets
Outlined OSD: remote-controlled via UTC commands or at the camera via integrated joystick	Outlined OSD: remote-controlled via UTC-commands	Outlined OSD: remote-controlled via UTC commands	Outlined OSD: remote-controlled via UTC commands	Outlined OSD: remote-controlled via UTC commands
English	English	English	English	English
CVBS, 75 Ohm	CVBS, 75 Ohm	CVBS, 75 Ohm	CVBS, 75 Ohm	CVBS, 75 Ohm
Via Privacy Zone Box	Via Privacy Zone Box	Via Privacy Zone Box	Via Privacy Zone Box	Via Privacy Zone Box
Lens specifications				
CS mount, C mount with 5 mm adapter	Ø 12 mm thread mount	Board lens, socket: Ø 14 mm	CS mount	Board lens, socket: Ø 14 mm
Standard version delivered without lens	F1.4/ 3.6 mm -D-	F1.2/ 2.9-10 mm -DN-	F0.95/ 2.9-8 mm, IR corrected, DN	F1.2/ 2.9-10 mm -D-
DC auto iris	Fixed iris	DC auto iris	DC auto iris	DC auto iris
-	Approx. 83°	Wide end: 94.6°, tele end: 28.8°	Wide angle: 94°, tele end: 35°	Wide end: 94.6°, tele end: 28.8°
Included IR Cut filter	IR Cut coating	Included IR Cut filter	Included IR Cut filter	Included IR Cut filter
F0.95/ 2.8-8 mm -D-	F2.5/ 2.3 mm -D-	F1.5/ 9-22 mm, IR corrected -DN-	F1.5/ 15-50 mm, IR corrected -DN-	F1.2/ 2.9-10 mm, IR corrected -DN-
F0.95/ 2.9-8 mm, IR corrected -DN-	F1.8/ 6 mm -D	F1.2/ 2.9-10 mm -D-	F0.95/ 2.8-8 mm -D-	F1.5/ 9-22 mm -D-
F1.5/ 15-50 mm, IR corrected -DN-	F2.0/ 8 mm -D-	F1.5/ 9-22 mm -D-		F1.5/ 9-22 mm, IR corrected -DN-
-	-	Only with day lenses	Only with the lenses F0.95/ 2.8-8 mm, and F1.5/ 15-50mm	Only with day lenses
Further specifications				
SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)
1x CVBS/BNC	1x CVBS/BNC	1x CVBS/BNC, 1x UTP (passive output: switchable, only one output possible at a time), 1x CVBS/3.5 mm phone jack (preview)	1x CVBS/BNC, 1x UTP (passive output: switchable, only one output possible at a time), 1x CVBS/3.5 mm phone jack (preview)	1x CVBS/BNC, 1x CVBS/3.5 mm phone jack (preview)
12V DC +/- 10%	12V DC +/- 10%	12V DC, 24V AC +/-10% (50/60 Hz)	12V DC, 24V AC +/- 10% (50/60 Hz)	12V DC, 24V AC (optional) +/- 10% (50/60 Hz)
Max. 2.1 W	Max. 1.7 W	Max. 4 W	Max. 4.5 W	Max. 2 W
-	Ball-joint	Tri-axial gimbal adjustment	Tri-axial gimbal adjustment	Tri-axial gimbal adjustment
Approx. W 45 x H 45 x L 73 mm	Approx. Ø 93 x H 70 mm (surface mount variant) Approx. Ø 94 x H 64 mm (in-ceiling mount variant)	Approx. Ø 149 x H 108 mm	Approx. Ø 153 x H 135 mm (surface mount variant) Approx. Ø 170 x H 129 mm (in-ceiling mount variant)	Approx. Ø 140 mm x H 115 mm
Approx. 160 g	Approx. 600 g (surface mount variant) Approx. 250 g (in-ceiling mount variant)	Approx. 476 g	Approx. 1100 g (surface mount variant) Approx. 1200 g (in-ceiling mount variant)	Approx. 320 g
-10°C - 45°C, recommended 0°C - 35°C	-10°C - 45°C, recommended 0°C - 35°C	-10°C - 45°C, recommended 0°C - 35°C	-10°C - 45°C, recommended 0°C - 35°C	-10°C - 45°C, recommended 0°C - 35°C
0% - 90% RH non-condensing	0% - 90% RH non-condensing	0% - 90% RH non-condensing	0% - 90% RH non-condensing	0% - 90% RH non-condensing
-	IP66 (in-ceiling variant)	-	IP67 (surface mount variant)	-
CE, FCC, UL, ACA, UVV-Kassen, CB, DIN EN 50130-4	CE, FCC, UL, ACA, UVV-Kassen, CB, DIN EN 50130-4	CE, FCC, UL, ACA, UVV-Kassen, CB, DIN EN 50130-4	CE, FCC, UL, ACA, UVV-Kassen, CB, DIN EN 50130-4	CE, FCC, UL, ACA, UVV-Kassen, CB, DIN EN 50130-4

Overview IP cameras

DF3000IP-PoE-DN

DDF3000IPV-DN

Sensor	1/3" CMOS sensor with Cam_inPIX®	1/3" CMOS sensor with Cam_inPIX®
Signal processing	17- bit Digital Signal Processing	17-bit Digital Signal Processing
Dynamic range	102 dB typical - 120 dB max.	102 dB typical - 120 dB max
Video capture	Progressive	Progressive
Transfer format	Progressive and PsF - Progressive With Segmented Frames	Progressive and PsF -Progressive With Segmented Frames
Image resolution	720 H x 540 V pixels	720 H x 540 V pixels
Horizontal resolution	540 TV lines	540 TV lines
B/W and colour mode	Colour mode also in night mode selectable	Colour mode also in night mode selectable
Day/Night functionality	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching
Light sensitivity	At F0.95, 50IRE: 0.5 lux, (-DN) 0.2 lux	At F1.2, 50IRE: 0.8 lux, (-DN) 0.3 lux
Signal to noise ratio (SNR)	> 48 dB	> 48 dB
Digital noise reduction (DNR)	On/Off	On/Off
Brightness adjustment (ALC/AE)	Automatic / manual	Automatic / manual
Backlight compensation (BLC)	Adjustable backlight zone	Adjustable backlight zone
Automatic gain control (AGC)	Brightness and gain limit adjustable 0-48 dB	Brightness and gain limit adjustable 0-48 dB
Gamma correction	Automatic / manual	Automatic / manual
Adjustable white balance	ATW, AWB, MWB (2000K to 11000K)	ATW, AWB, MWB (2000K to 11000K)
AE presets	7 presets	7 presets
Configuration	Via web browser	Via web browser
Languages	English, German, French, Spanish, Hungarian	English, German, French, Spanish, Hungarian
Motion detection (VMD)	With selectable sensitivity	With selectable sensitivity
Alarm notification	Via e-mail and ftp upload	Via e-mail and ftp upload
Lens specifications		
Mount	CS mount, C mount with 5 mm adapter	Board lens, socket: Ø14 mm
Iris range/ focal length range	Standard version delivered without lens	F1.2/ 2.9-10 mm -DN-
Iris control	DC auto iris	DC auto iris
Horizontal angle of view	-	Wide end: 94.6°, tele end 28.8°
IR filtering	Integrated IR Cut filter	Integrated IR Cut filter
Lens variants	F0.95/ 2.8-8 mm -D F0.95/ 2,9-8 mm, IR corrected -DN- F1.5/ 15-50 mm, IR corrected -DN-	F1.2/ 2.9-10 mm -D- F1.5/ 9-22 mm -D- F1.5/ 9-22 mm, IR corrected -DN-
CasinoCam camera variants	Only with the lenses F0.95/ 2.8-8 mm and F1.5/ 15-50 mm	Only with Day lenses
Format and coding		
Video/Audio compression	MPEG-2, MPEG-4, MJPEG (H.264 tentative) / MPEG-1 Layer 2 (G.722 tentative)	MPEG-2, MPEG-4, MJPEG (H.264 tentative) / MPEG-1 Layer 2 (G.722 tentative)
Frame rate	6.25 / 12.5 / 25 fps	6.25 / 12.5 / 25 fps
Video/audio bit rate	Up to 16 Mbps / up to 384 kbps	Up to 16 Mbps / up to 384 kbps
Resolution	QCIF, CIF, 2CIF, Half D1, 4CIF, Full D1	QCIF, CIF, 2CIF, Half D1, 4CIF, Full D1
Interfaces		
Video outputs	1x CVBS/2,5 mm phone jack (analogue preview)	1x CVBS/cinch (analogue preview)
Audio inputs	1x 3.5 mm phone jack (Line IN)	1x 3.5 mm phone jack (Line IN)
Ethernet	1 x RJ45, 10BASE-T-/100BASE-TX-PoE	1x R J45, 10BASE-T-/100BASE-TX-PoE
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP
Video buffer	64MB RAM ring storage (pre- and post alarm, network failure compensation)	64MB RAM ring storage (pre- and post alarm, network failure compensation)
Serial	1x RS485	1x RS485
Programming interface	Open API for 3rd party systems integration via Dallmeier ActiveX*	Open API for 3rd party systems integration via Dallmeier ActiveX*
Further specifications		
Video norm	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)
Power supply	24V AC +/- 10% (50/60 Hz) or over PoE (class 0)	12V DC, 24V AC +/- 10% (50/60 Hz) or via PoE (class 0)
PoE conformity	IEEE 802.3af (no PoE adapter required)	IEEE 802.3af (no PoE adapter required)
Power consumption	Max. 6.5 W	Max. 6.5 W
Dimensions	Approx. W 45 x H 45 x L 115.6 mm	Approx. Ø 152 x H 136 mm (surface mount variant) Approx. Ø 170 x H 165 mm (in-ceiling mount variant)
Weight	Approx. 250 g	Approx. 1150 g (both variants) Approx. 1050 g (in-ceiling mount variant)
Operating temperature	-10°C - 45°C, recommended 0°C - 35°C	-10°C - 45°C, recommended 0°C - 35°C
Humidity	0% - 90% RH non-condensing	0% - 90% RH non-condensing
IP rating	-	IP67 (surface mount variant)
Approvals/certifications	CE, FCC, UL, ACA, UVV-Kassen, CB, DIN EN 50130-4	CE, FCC, UL, ACA, UVV-Kassen, CB, DIN EN 50130-4

CamInNET®

Overview DOMERA® analogue

DDZ3018-YY/HS/A DOMERA®

DDZ3026-YY/HS/A DOMERA®

DDZ3036-YY/HS/A DOMERA®

DDZ3018-YY/RP/A DOMERA®

Sensor	1/4" EXview HAD CCD* image sensor	1/4" EXview HAD CCD* image sensor	1/4" EXview HAD CCD* image sensor	1/4" EXview HAD CCD* image sensor
Signal processing	Digital Signal Processing	Digital Signal Processing	Digital Signal Processing	Digital Signal Processing
Dynamic range	Wide Dynamic Range	Wide Dynamic Range	Wide Dynamic Range	-
Image capture	Interlaced	Interlaced	Interlaced	Interlaced
Transfer format	Interlaced or progressive	Interlaced or progressive	Interlaced or progressive	Interlaced or progressive
Image resolution	440,000 pixels	440,000 pixels	440,000 pixels	440,000 pixels
Horizontal resolution	530 TV lines	530 TV lines	530 TV lines	480 TV lines
B/W and colour mode	Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual
Day/Night functionality	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching	-
Light sensitivity	At F1.4, 50IRE: 0.7 lux, (-DN) 0.01 lux	At F1.6, 50IRE: 1 lux, (-DN) 0.01 lux	At F1.6, 50 IRE: 1.4 lux; (-DN) 0.01 lux	At F1.4, 50IRE: 0.7 lux
Zoom	Optical: 18x, digital: 12x	Optical: 26x, digital: 12x	Optical: 36x, digital: 12x	Optical: 18x, digital: 12x
Focus	Automatic, one push, manual	Automatic, one push, manual	Automatic, one push, manual	Automatic, one push, manual
Flip function	Available	Available	Available	Available
Shutter speed	1/1 s to 1/10,000 s (in 22 steps)	1/1 s to 1/10,000 s (in 22 steps)	1/1 s to 1/10,000 s (in 22 steps)	1/1 s to 1/10,000 s (in 22 steps)
Signal to noise ratio (SNR)	> 50 dB	> 50 dB	> 50 dB	> 50 dB
Brightness adjustment (ALC/AE)	Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual
Backlight compensation (BLC)	On/Off	On/Off	On/Off	On/Off
Automatic gain control (AGC)	Automatic / manual (-3 to +28 dB in 2 dB steps)	Automatic / manual (-3 to +28 dB in 2 dB steps)	Automatic / manual (-3 to +28 dB in 2 dB steps)	Automatic / manual (-3 to +28 dB in 2 dB steps)
Gamma correction	Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual
Adjustable white balance	AWB, MWB, One push WB, indoor, outdoor	AWB, MWB, One push WB, indoor, outdoor	AWB, MWB, One push WB, indoor, outdoor	AWB, MWB, One push WB, indoor, outdoor
AE presets	6 presets	6 presets	6 presets	6 presets
Languages	English, Spanish, German	English, Spanish, German	English, Spanish, German	English, Spanish, German
Motion detection (VMD)	Integrated	Integrated	Integrated	-
Privacy zones	8 dynamic zones	8 dynamic zones	8 dynamic zones	8 dynamic zones
Alarm notification	Via e-mail and ftp upload	Via e-mail and ftp upload	Via e-mail and ftp upload	Via e-mail and ftp upload
Smart Lens Control	Integrated	Integrated	Integrated	Integrated
Functions				
Pan/ Tilt	360° endless / 0° - 180°	360° endless / 0° - 180°	360° endless / 0° - 180°	360° endless / 0° - 180°
Variable speed	Pan:120°/s, tilt:120°/s (Turbo: 420°/s)	Pan:120°/s, tilt:120°/s (Turbo: 420°/s)	Pan:120°/s, tilt:120°/s (Turbo: 420°/s)	Pan:10°/s, tilt:10°/s
Preset speed	Pan: 420°/s, Tilt:420°/s (+/- 0,1°)	Pan: 420°/s, Tilt:420°/s (+/- 0,1°)	Pan: 420°/s, tilt:420°/s (+/- 0,1°)	Pan: 100°/s, tilt:100°/s (+/- 0,2°)
Programmable preset positions	248 positions	248 positions	248 positions	8 positions
Programmable tours	16 (8 tours, 8 Pattern)	16 (8 tours, 8 pattern)	16 (8 tours, 8 pattern)	-
Auto Scan, auto pan	16 scans, 1 pan	16 scans, 1 pan	16 scans, 1 pan	2 scans, 1 pan
Lens specifications				
Iris range/ focal length range	F1.4-F3.0/ 4.1-73.8 mm	F 1.6 - F3.8/ 3.5-91.0 mm	F 1.6 - F4.5/ 3.4-122.4 mm	F1.4-F3.0/ 4.1-73.8 mm
Iris control	DC auto iris	DC auto iris	DC auto iris	DC auto iris
Horizontal angle of view	Approx. 48° - 2.8°	Approx. 54.3°-2.2°	Approx. 57,8°-1,7°	Approx. 48° - 2.8°
IR filtering	Included IR Cut filter	Included IR Cut filter	Included IR Cut filter	Included IR Cut filter
Interfaces				
Video outputs	1x CVBS/BNC, 1x UTP/RJ45	1x CVBS/BNC, 1x UTP/RJ45	1x CVBS/BNC, 1x UTP/RJ45	1x CVBS/BNC, 1x UTP/RJ45
Serial	1x RS485/RJ45	1x RS485/RJ45	1x RS485/RJ45	1x RS485/RJ45
Control protocols	Dallmeier DCCP, Pelco D	Dallmeier DCCP, Pelco D	Dallmeier DCCP, Pelco D	Dallmeier DCCP, Pelco D
Control	OSD: PTZ controller, at the recorder, via PView	OSD: PTZ controller, at the recorder, via PView	OSD: PTZ controller, at the recorder, via PView	OSD: PTZ controller, at the recorder, via PView
Further specifications				
Video norm	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)
Voltage supply	24/28V AC +/- 10% (50/60 Hz)	24/28V AC +/- 10% (50/60 Hz)	24/28V AC +/- 10% (50/60 Hz)	24/28V AC +/- 10% (50/60 Hz)
Power consumption	DDZ3018-IM/HS/A: max. 18 W	DDZ3026-IM/HS/A: max. 18 W	DDZ3036-IM/HS/A: max. 18 W	DDZ3018-IM/RP/A: max. 18 W
	DDZ3018-SM/HS/A: max. 18 W	DDZ3026-SM/HS/A: max. 18 W	DDZ3036-SM/HS/A: max. 18 W	DDZ3018-SM/RP/A: max. 18 W
	DDZ3018-WM/HS/A: max. 82W	DDZ3036-WM/HS/A: max. 82 W	DDZ3036-WM/HS/A: max. 82 W	DDZ3018-WM/RP/A: max. 82 W
Dimensions	DDZ3018-IM/HS/A: approx. Ø 227 x H 208 mm	DDZ3026-IM/HS/A: approx. Ø 227 x H 208 mm	DDZ3036-IM/HS/A: approx. Ø 227 x H 208 mm	DDZ3018-IM/RP/A: approx. Ø 227 x H 208 mm
	DDZ3018-SM/HS/A: approx. Ø 155 x H 206 mm	DDZ3026-SM/HS/A: approx. Ø 155 x H 206 mm	DDZ3036-SM/HS/A: approx. Ø 155 x H 206 mm	DDZ3018-SM/RP/A: approx. Ø 155 x H 206 mm
	DDZ3018-WM/HS/A: approx. Ø 259 x H 330 mm	DDZ3026-WM/HS/A: approx. Ø 259 x H 330 mm	DDZ3036-WM/HS/A: approx. Ø 259 x H 330 mm	DDZ3018-WM/RP/A: approx. Ø 259 x H 330 mm
Weight	DDZ3018-IM/HS/A: approx. 2025 g	DDZ3026-IM/HS/A: approx. 2025 g	DDZ3036-IM/HS/A: approx. 2025 g	DDZ3018-IM/RP/A: approx. 2025 g
	DDZ3018-SM/HS/A: approx. 1755 g	DDZ3026-SM/HS/A: approx. 1755 g	DDZ3036-SM/HS/A: approx. 1755 g	DDZ3018-SM/RP/A: approx. 1755 g
	DDZ3018-WM/HS/A: approx. 4425 g	DDZ3026-WM/HS/A: approx. 4425 g	DDZ3036-WM/HS/A: approx. 4425 g	DDZ3018-WM/RP/A: approx. 4425 g
Operating temperature	DDZ3018-IM/HS/A (indoor): -10°C - 40°C	DDZ3026-IM/HS/A (indoor): -10°C - 40°C	DDZ3036-IM/HS/A (indoor): -10°C - 40°C	DDZ3018-IM/RP/A (indoor): -10°C - 40°C
	DDZ3018-SM/HS/A (indoor): -10°C - 40°C	DDZ3026-SM/HS/A (indoor): -10°C - 40°C	DDZ3036-SM/HS/A (indoor): -10°C - 40°C	DDZ3018-SM/RP/A (indoor): -10°C - 40°C
	DDZ3018-WM/HS/A (outdoor): -30°C - 50°C	DDZ3026-WM/HS/A (outdoor): -30°C - 50°C	DDZ3036-WM/HS/A (outdoor): -30°C - 50°C	DDZ3018-WM/RP/A (outdoor): -30°C - 50°C
Humidity	0% - 90% RH non-condensing	0% - 90% RH non-condensing	0% - 90% RH non-condensing	0% - 90% RH non-condensing
IP rating	IP67 (weather-proof variant)	IP67 (weather-proof variant)	IP67 (weather-proof variant)	IP67 (weather-proof variant)
Approvals/certifications	CE, FCC, UL, ACA, CB, DIN EN 50130-4	CE, FCC, UL, ACA, CB, DIN EN 50130-4	CE, FCC, UL, ACA, CB, DIN EN 50130-4	CE, FCC, UL, ACA, CB, DIN EN 50130-4

Overview DOMERA® IP

DDZ3018-YY/HS/IP DOMERA®

DDZ3026-YY/HS/IP DOMERA®

DDZ3036-YY/HS/IP DOMERA®

DDZ3018-YY/RP/IP DOMERA®

Sensor	1/4" EXview HAD CCD* image sensor	1/4" EXview HAD CCD* image sensor	1/4" EXview HAD CCD* image sensor	1/4" EXview HAD CCD* image sensor
Signal processing	Digital Signal Processing	Digital Signal Processing	Digital Signal Processing	Digital Signal Processing
Dynamic range	Wide Dynamic Range	Wide Dynamic Range	Wide Dynamic Range	-
Image capture	Interlaced	Interlaced	Interlaced	Interlaced
Transfer format	Interlaced or progressive	Interlaced or progressive	Interlaced or progressive	Interlaced or progressive
Image resolution	440,000 pixels	440,000 pixels	440,000 pixels	440,000 pixels
Horizontal resolution	530 TV lines	530 TV lines	530 TV lines	480 TV lines
B/W and colour mode	Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual
Day/Night functionality	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching	Mechanical ICR function for Day/Night switching	-
Light sensitivity	At F1.4, 50IRE: 0.7 lux, (-DN) 0.01 lux	At F1.6, 50IRE: 1 lux, (-DN) 0.01 lux	At F1.6, 50 IRE: 1.4 lux; (-DN) 0.01 lux	At F1.4, 50IRE: 0.7 lux
Zoom	Optical: 18x, digital: 12x	Optical: 26x, digital: 12x	Optical: 36x, digital: 12x	Optical: 18x, digital: 12x
Focus	Automatic, one push, manual	Automatic, one push, manual	Automatic, one push, manual	Automatic, one push, manual
Flip function	Available	Available	Available	Available
Shutter speed	1/1 s to 1/10,000 s (in 22 steps)	1/1 s to 1/10,000 s (in 22 steps)	1/1 s to 1/10,000 s (in 22 steps)	1/1 s to 1/10,000 s (in 22 steps)
Signal to noise ratio (SNR)	> 50 dB	> 50 dB	> 50 dB	> 50 dB
Brightness adjustment (ALC/AE)	Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual
Backlight compensation (BLC)	On/Off	On/Off	On/Off	On/Off
Automatic gain control (AGC)	Automatic / manual (-3 to +28 dB in 2 dB steps)	Automatic / manual (-3 to +28 dB in 2 dB steps)	Automatic / manual (-3 to +28 dB in 2 dB steps)	Automatic / manual (-3 to +28 dB in 2 dB steps)
Gamma correction	Automatic / manual	Automatic / manual	Automatic / manual	Automatic / manual
Adjustable white balance	AWB, MWB, One push WB, indoor, outdoor	AWB, MWB, One push WB, indoor, outdoor	AWB, MWB, One push WB, indoor, outdoor	AWB, MWB, One push WB, indoor, outdoor
AE presets	6 presets	6 presets	6 presets	6 presets
Configuration	Via web browser	Via web browser	Via web browser	Via web browser
Languages	English, Spanish, German	English, Spanish, German	English, Spanish, German	English, Spanish, German
Motion detection (VMD)	With selectable sensitivity	With selectable sensitivity	With selectable sensitivity	With selectable sensitivity
Privacy zones	8 dynamic zones	8 dynamic zones	8 dynamic zones	8 dynamic zones
Alarm notification	Via e-mail and ftp upload	Via e-mail and ftp upload	Via e-mail and ftp upload	Via e-mail and ftp upload
Functions				
Pan/ Tilt	360° endless / 0° - 180°	360° endless / 0° - 180°	360° endless / 0° - 180°	360° endless / 0° - 180°
Variable speed	Pan:120°/s, tilt:120°/s (Turbo: 420°/s)	Pan:120°/s, tilt:120°/s (Turbo: 420°/s)	Pan:120°/s, tilt:120°/s (Turbo: 420°/s)	Pan:10°/s, tilt:10°/s
Preset speed	Pan: 420°/s, tilt:420°/s (+/- 0,1°)	Pan: 420°/s, tilt:420°/s (+/- 0,1°)	Pan: 420°/s, tilt:420°/s (+/- 0,1°)	Pan: 100°/s, tilt:100°/s (+/- 0,2°)
Programmable preset positions	248 positions	248 positions	248 positions	8 positions
Programmable tours	16 (8 tours, 8 pattern)	16 (8 tours, 8 pattern)	16 (8 tours, 8 pattern)	-
Auto Scan, auto pan	16 scans, 1 pan	16 scans, 1 pan	16 scans, 1 pan	2 scans, 1 pan
Lens specifications				
Iris range/ focal length range	F1.4-F3.0/ 4.1-73.8 mm	F 1.6 - F3.8/ 3.5-91.0 mm	F 1.6 - F4.5/ 3.4-122.4 mm	F1.4-F3.0/ 4.1-73.8 mm
Iris control	DC auto iris	DC auto iris	DC auto iris	DC auto iris
Horizontal angle of view	Approx. 48° - 2.8°	Approx. 54.3°-2.2°	Approx. 57,8°-1,7°	Approx. 48° - 2.8°
IR filtering	Included IR Cut filter	Included IR Cut filter	Included IR Cut filter	Included IR Cut filter
Format and coding				
Video/audio compression	MPEG-2, MPEG-4, MJPEG (H.264 tentative) / MPEG-1 Layer 2 (G.722 tentative)	MPEG-2, MPEG-4, MJPEG (H.264 tentative) / MPEG-1 Layer 2 (G.722 tentative)	MPEG-2, MPEG-4, MJPEG (H.264 tentative) / MPEG-1 Layer 2 (G.722 tentative)	MPEG-2, MPEG-4, MJPEG (H.264 tentative) / MPEG-1 Layer 2 (G.722 tentative)
Frame rate	6.25 / 12.5 / 25 fps	6.25 / 12.5 / 25 fps	6.25 / 12.5 / 25 fps	6.25 / 12.5 / 25 fps
Video/audio bit rate	Up to 16 Mbps (6 Mbps typical) / up to 384 kbps	Up to 16 Mbps (6 Mbps typical) / up to 384 kbps	Up to 16 Mbps (6 Mbps typical) / up to 384 kbps	Up to 16 Mbps (6 Mbps typical) / up to 384 kbps
Resolution	QCIF, CIF, 2CIF, Half D1, 4CIF, Full D1	QCIF, CIF, 2CIF, Half D1, 4CIF, Full D1	QCIF, CIF, 2CIF, Half D1, 4CIF, Full D1	QCIF, CIF, 2CIF, Half D1, 4CIF, Full D1
Interfaces				
Video outputs	1x CVBS/cinch (analogue preview)	1x CVBS/cinch (analogue preview)	1x CVBS/cinch (analogue preview)	1x CVBS/cinch (analogue preview)
Audio inputs	1x 3.5 mm phone jack (Line IN)	1x 3.5 mm phone jack (Line IN)	1x 3.5 mm phone jack (Line IN)	1x 3.5 mm phone jack (Line IN)
Ethernet	1 x RJ45, 10BASE-T-/100BASE-TX	1x RJ45, 10BASE-T-/100BASE-TX	1x RJ45, 10BASE-T-/100BASE-TX	1x RJ45, 10BASE-T-/100BASE-TX
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP
Video buffer	64MB RAM ring storage (pre- and post alarm, network failure compensation)	64MB RAM ring storage (pre- and post alarm, network failure compensation)	64MB RAM ring storage (pre- and post alarm, network failure compensation)	64MB RAM ring storage (pre- and post alarm, network failure compensation)
Programming interface	Open API for 3rd party systems integration via Dallmeier ActiveX*	Open API for 3rd party systems integration via Dallmeier ActiveX*	Open API for 3rd party systems integration via Dallmeier ActiveX*	Open API for 3rd party systems integration via Dallmeier ActiveX*
Further specifications				
Video norm	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)
Voltage supply	24/28V AC +/- 10% (50/60 Hz)	24/28V AC +/- 10% (50/60 Hz)	24/28V AC +/- 10% (50/60 Hz)	24/28V AC +/- 10% (50/60 Hz)
Power consumption	DDZ3018-IM/HS/IP: max. 24 W DDZ3018-SM/HS/IP: max. 24 W DDZ3018-WM/HS/IP: max. 88 W	DDZ3026-IM/HS/IP: max. 24 W DDZ3026-SM/HS/IP: max. 24 W DDZ3026-WM/HS/IP: max. 88 W	DDZ3036-IM/HS/IP: max. 24 W DDZ3036-SM/HS/IP: max. 24 W DDZ3036-WM/HS/IP: max. 88 W	DDZ3018-IM/RP/IP: max. 24 W DDZ3018-SM/RP/IP: max. 24 W DDZ3018-WM/RP/IP: max. 88 W
Dimensions	DDZ3018-IM/HS/IP: approx. Ø 227 x H 208 mm DDZ3018-SM/HS/IP: approx. Ø 155 x H 206 mm DDZ3018-WM/HS/IP: approx. Ø 259 x H 330 mm	DDZ3026-IM/HS/IP: approx. Ø 227 x H 208 mm DDZ3026-SM/HS/IP: approx. Ø 155 x H 206 mm DDZ3026-WM/HS/IP: approx. Ø 259 x H 330 mm	DDZ3036-IM/HS/IP: approx. Ø 227 x H 208 mm DDZ3036-SM/HS/IP: approx. Ø 155 x H 206 mm DDZ3036-WM/HS/IP: approx. Ø 259 x H 330 mm	DDZ3018-IM/RP/IP: approx. Ø 227 x H 208 mm DDZ3018-SM/RP/IP: approx. Ø 155 x H 206 mm DDZ3018-WM/RP/IP: approx. Ø 259 x H 330 mm
Weight	DDZ3018-IM/HS/IP: approx. 2025 g DDZ3018-SM/HS/IP: approx. 1755 g DDZ3018-WM/HS/IP: approx. 4425 g	DDZ3026-IM/HS/IP: approx. 2025 g DDZ3026-SM/HS/IP: approx. 1755 g DDZ3026-WM/HS/IP: approx. 4425 g	DDZ3036-IM/HS/IP: approx. 2025 g DDZ3036-SM/HS/IP: approx. 1755 g DDZ3036-WM/HS/IP: approx. 4425 g	DDZ3018-IM/RP/IP: approx. 2025 g DDZ3018-SM/RP/IP: approx. 1755 g DDZ3018-WM/RP/IP: approx. 4425 g
Operating temperature	DDZ3018-IM/HS/IP (indoor): -10°C - 40°C DDZ3018-SM/HS/IP (indoor): -10°C - 40°C DDZ3018-WM/HS/IP (outdoor): -30°C - 50°C	DDZ3026-IM/HS/IP (indoor): -10°C - 40°C DDZ3026-SM/HS/IP (indoor): -10°C - 40°C DDZ3026-WM/HS/IP (outdoor): -30°C - 50°C	DDZ3036-IM/HS/IP (indoor): -10°C - 40°C DDZ3036-SM/HS/IP (indoor): -10°C - 40°C DDZ3036-WM/HS/IP (outdoor): -30°C - 50°C	DDZ3018-IM/RP/IP (indoor): -10°C - 40°C DDZ3018-SM/RP/IP (indoor): -10°C - 40°C DDZ3018-WM/RP/IP (outdoor): -30°C - 50°C
Humidity	0% - 90% RH non-condensing	0% - 90% RH non-condensing	0% - 90% RH non-condensing	0% - 90% RH non-condensing
IP rating	IP67 (weather-proof variant)	IP67 (weather-proof variant)	IP67 (weather-proof variant)	IP67 (weather-proof variant)
Approvals/certifications	CE, FCC, UL, ACA, CB, DIN EN 50130-4	CE, FCC, UL, ACA, CB, DIN EN 50130-4	CE, FCC, UL, ACA, CB, DIN EN 50130-4	CE, FCC, UL, ACA, CB, DIN EN 50130-4

Worth knowing | cameras

What you always wanted to know about...

Motion detection

This functionality is realised using an algorithm for motion detection. Motion is detected in sequential images, selected zones and with a chosen level of sensitivity.

Shutter

Electronic Shutter
The electronic shutter regulates the shutter speed and hence the duration of exposure of an image (exposure time). Short exposure times allow for sharper images of moving objects but require a larger amount of light striking the sensor, which can be achieved, for instance, through a larger aperture (lower iris value, F-number).

Slow Shutter
The slow shutter function, as opposed to the conventional shutter, allows for significantly lower shutter speed and consequently enables images to also be taken with low light or at night.

AE Automatic Exposure

Automatic exposure is a method for regulating the exposure of cameras. Thereby the electrical current generated by incidence of light onto the sensor powers a mechanism, which carries out certain settings and adjustments such as the aperture, shutter speed, ALC, AGC etc. All this is done automatically without human intervention.

The abbreviation AE Presets stands for “Automatic Exposure Presets”. The AE Presets are preprogrammed and designed to deliver optimal picture quality under specific exposure conditions. Dallmeier cameras offer seven different, application-specific AE Presets: Universal, Details 1, Details 2, Indoor/Shadow, Indoor, Fluorescent, Low Light.

AGC

Short for “Automatic Gain Control“. The amplification of the video signal is automatically adjusted to the brightness of the scene. In the case of low scene lighting, the video signal is amplified, whereas in the case of very high scene lighting, the video signal is weakened.

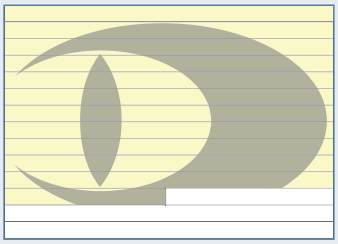
Progressive Scan Image Capture

Progressive Scan is a video recording process during which the sensor progressively scans all the lines of an image.

In contrast, the Interlaced Scan first scans all the uneven and then the even lines of an image, which means that the image is subsequently acquired by two separated half-frames. A true full-frame is not available until after two cycles.

With Progressive Scan though, the full-frame is generated simultaneously, offering the advantage that, especially in the case of moving objects, the picture is free of any interlacing artefacts.

Interlaced Scan



Progressive Scan

Progressive With Segmented Frames (PsF) Image Transmission

PsF is used to transmit progressively captured images onto media that use interlacing (for example PAL and NTSC monitors). An image captured with Progressive Scan is divided into two segments with identical time signatures (no movements between the segments), which are then transmitted consecutively.

Therefore, progressively captured images can be processed using the same electronic circuits used for storing, processing and transmitting interlaced videos.

IP Rating

Cameras are often listed together with IP protection classes such as “IP67”. Those IP values are assigned according to DIN EN 60529 (IEC 529/VDE 047 T1), whereby the individual letters and figures indicate the following:

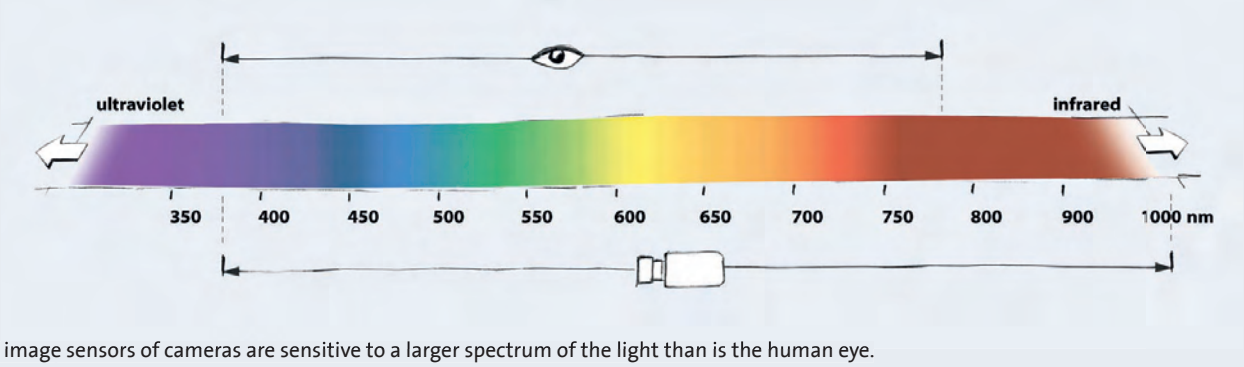
IP = International Protection
First figure = Protection against solid foreign objects
(values range from 1-6)
Second figure = Protection against water (values range from 1-8)

The higher the figure, the higher the level of protection.

Infrared light and ICR function

Infrared light

The portion of light visible to the human eye lies in a wavelength range from approx. 380 to 780 nano metres (nm), whereas the infrared light (IR radiation) lies in a wavelength range from the visible light (780nm) up to the long wave rays.



The image sensors of cameras are sensitive to a larger spectrum of the light than is the human eye.

This means:
For daylight mode: The infrared light has an interfering effect on the image quality of the camera, leading to corruption of colours and contrasts as well as blurring.
For nightlight mode: In night mode, the infrared light is used to achieve detailed images in darkness or with low ambient light.

IR Cut filters

In order to avoid unwanted side-effects caused by infrared light (as part of the natural ambient light) during image exposure in daylight mode, an IR Cut filter is installed in front of the sensor. The filter is meant to prevent the incidence of light onto the image sensor. Also, there is the IR Cut coating. This method realises the IR Cut filter by applying a special coating to the lens.

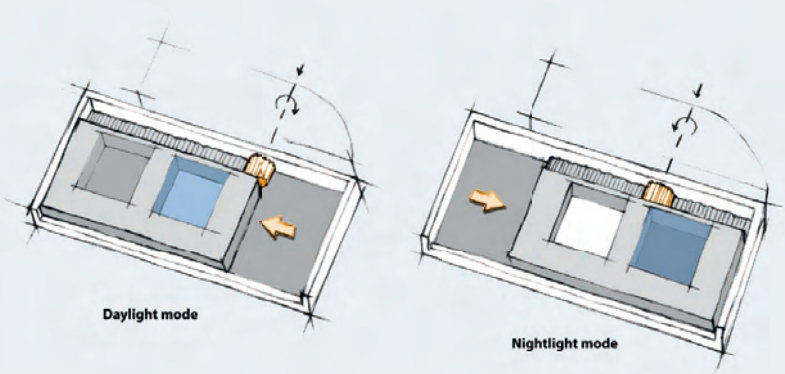
IR correction

With IR corrected optical assembly, the lens is developed and manufactured so that the IR radiation is corrected before hitting the sensor.

This means that in daylight mode, IR corrected lenses also need an IR Cut filter. Since even the best IR Cut filters are not able to block all the IR radiation, the remaining IR rays that strike the sensor are corrected, hence an optimal image quality can be achieved.
NOTE: Only IR corrected lenses are suitable for use with IR lighting!

ICR function for Day/Night switching
(ICR = IR Cut filter mechanically removable)

Through the use of the ICR function a real[1)] Day/Night functionality of the camera can be realised. Using a so-called filter shifter, the IR Cut filter can be swivelled in, which means that in day mode the IR Cut filter is moved in front of the sensor in order to block out the interfering infrared light. In night mode the IR Cut filter is moved away so that IR light may pass through.



[1)] There are cameras with an electronic (virtual) Day/Night functionality. Thereby, switching from day to night mode is only done virtually by adjusting some parameters of the AE ("Automatic Exposure") Presets. The image is displayed in black and white. The IR Cut filter cannot be removed on cameras with electronic Day/Night function. Therefore, the filter blocks out the IR light in night mode, when it is actually needed.

Encoders/decoders/streamers

The Dallmeier encoders/decoders/streamers are available in various specifications so that individual requirements are accounted for, ranging from a one-channel solution to large-scale projects with several thousand cameras.

All streamers/encoders allow the integration of analogue cameras into a network. Existing analogue infrastructures can therefore quickly and easily be made IP ready.

Furthermore, some devices, for instance the DIS-2/M UTP can also record. Through enabling storage directly at the encoder Dallmeier ensures a high availability of the recording, as it is network-independent and even continues recording in the case of a malfunction or a complete network failure. This storage concept also minimises the demands on the network (bandwidth) since streaming is only carried out when necessary.

Owing to their open system architecture the Dallmeier encoders/decoders/streamers are ideally suited for realising complex installations. Whether used as a stand-alone unit or slide-in units, the encoders/decoders/streamers offer the highest availability and reliability. Their modular design allows the use of the Dallmeier blade technology, which makes it possible to also realise large-scale installations in a space-saving and cost-effective way (form factor).

The encoders/decoders/streamers are the ideal solution for the surveillance of critical areas, which require high image quality and real-time transmission (broadcast quality). Typical areas of application include, for example, casinos, airports, metro networks, city surveillance, production facilities and industrial areas, traffic monitoring or medical uses. Thereby the digital matrix allows for the joint operation of any number of recorders. The digital matrix is designed to enable unlimited expansion of the system. It is also easily possible to join the operation of different sites so that existing locations can be interconnected at a later stage and controlled from one main control room. To this end we are able to cope with configuration levels of more than 10,000 channels!

MicroStreamer-PoE

The MicroStreamer PoE is a 1 channel audio and video streamer with a very compact casing. It is able to receive and encode analogue audio and video signals and transmit the resulting data in real-time via an Ethernet network (unicast or multicast) as a stream. It is ready for PoE but can also be operated with 24V AC power supply. The MicroStreamer is a stand-alone streamer. Its compact and robust design allows the streamer to be used in a multitude of locations.

- 1x analogue video channel
- Simultaneous encoding and streaming
- Video compression: MPEG-2/-4, MJPEG
- Audio compression: MPEG-1 Layer 2
- Integrated Dallmeier Image Optimiser for perfect image quality, even under adverse lighting conditions
- Bit rate (constant or dynamic) up to 16 Mbps
- Resolution up to D1
- Frame rate up to 25 fps at all resolutions
- Configuration with web browser via Ethernet
- Evaluation with SeMSy® or PView via Ethernet
- Integrated motion detection with selectable sensitivity
- Recording with various Dallmeier recorders
- Integrated 64MB RAM video memory
- PoE capable
- Power supply: PoE or 24V AC
- DIN EN 50130-4 compliant

Variants

200.434.1.001	MicroStreamer-PoE PAL / grey

Options

200.402.2.09.01	Preview adapter cable, 2.5mm phone jack on BNC
100.041	Universal power pack 240V AC / 24V AC, removable adapter EU/UK/US/AUS

DIS-2/M UTP

The DIS-2/M UTP is a 1 channel audio and video encoder in modular design with recording capability and a UTP (two-wire line/Unshielded Twisted Pair) video input. It is able to receive and encode analogue audio and video signals and simultaneously record and transmit the resulting data in real-time via an Ethernet network (unicast or multicast) as a stream. The DIS-2/M UTP is designed for installation and operation in a 19" module rack. In the case of a service, the DIS-2/M UTP modules can be quickly and easily exchanged (hot-plug functionality).

- 1x analogue video channel
- Simultaneous encoding, recording, streaming, live display and playback
- Video compression: MPEG-2/-4, MJPEG
- Audio compression: MPEG-1 Layer 2
- Bit rate (constant or dynamic) up to 16 Mbps
- Resolution up to D1
- Frame rate up to 25 fps at all resolutions
- Configuration with web browser via Ethernet
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated SmartFinder, motion detection and UTC compatibility
- Video inputs: 1x CVBS, 1x S-Video and 1x UTP
- Linux operating system on Flash memory
- Modular design with hot-plug functionality of the individual modules
- Available as variant with 2 HDDs, 1 HDD or without HDD

Variants

002.001.0.000.000	DIS-2/M UTP 390 mm 1x analogue video channel
002.001.1.000.000	DIS-2/M UTP 550 mm for 1x HDD 1x analogue video channel Please note: HDDs must be ordered separately!
002.001.2.000.000	DIS-2/M UTP 700 mm for 2x HDDs 1x analogue video channel Please note that HDDs must be ordered separately!

Options

002.000.11.390	19" module rack 390, (L390 mm x 3HU) for the installation of up to 10 modules without HDD's, incl. power supply and fan
002.000.11.550	19" module rack 550, (L550 mm x 3HU) for the installation of up to 10 modules with 1x HDD, incl. power supply and fan
002.000.11.700	19" module rack 700, (L700 mm x 3HU) for the installation of up to 10 modules with 2x HDDs, incl. power supply and fan
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

200.120FS	Dual Stream for DIS series

DIS-2/M StreamerPro UTP

The DIS-2/M StreamerPro UTP is a 1 channel audio and video encoder with a UTP (two-wire line/Unshielded Twisted Pair) video input. It is able to receive and encode analogue audio and video signals and transmit the resulting data in real-time via an Ethernet network (unicast or multicast) as a stream. The DIS-2/M StreamerPro UTP is a stand-alone streamer. Its compact and robust design allows the streamer to be used ad-hoc and in a multitude of locations.

- 1x analogue video channel
- Simultaneous real-time encoding, streaming and live display
- Video compression: MPEG-2/-4, MJPEG
- Audio compression: MPEG-1 Layer 2
- Bit rate (constant or dynamic) up to 16 Mbps
- Resolution up to D1
- Frame rate up to 25 fps at all resolutions
- Configuration with web browser via Ethernet
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated motion detection and UTC compatibility
- Video inputs: 1x CVBS, 1x S-Video and 1x UTP
- Linux operating system on Flash memory

Variants

002.002.000	DIS-2/M StreamerPro UTP 1x analogue video channel

Options

002.001.390	19" module rack, (L)390 mm x 3HU) for the installation of up to 10 single devices, incl. power supply unit and its depositing rack
000.214	19" bracket, for up to 4 units (1HU)

Activations

200.120FS	Dual Stream for DIS series

DIS-2/M StreamerPro HDD Large UTP

The DIS-2/M StreamerPro HDD Large UTP is a 1 channel audio and video encoder in modular design with recording capability and a UTP (two-wire line/Unshielded Twisted Pair) video input. It is able to receive and encode analogue audio and video signals, record and transmit the resulting data in real-time via an Ethernet network (unicast or multicast) as a stream. The DIS-2/M StreamerPro HDD Large UTP is a stand-alone encoder with a lockable slide-in unit. In the case of a service, the hard disk can be easily and quickly exchanged. Its compact and robust design allows the encoder to be used ad-hoc and in a multitude of locations.

- 1x analogue video channel
- Simultaneous encoding, recording, streaming, live display and playback
- Video compression: MPEG-2/-4, MJPEG
- Audio compression: MPEG-1 Layer 2
- Bit rate (constant or dynamic) up to 16 Mbps
- Resolution up to D1
- Frame rate up to 25 fps at all resolutions
- Configuration with web browser via Ethernet
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated SmartFinder, motion detection and UTC compatibility
- Video inputs: 1x CVBS, 1x S-Video and 1x UTP
- Linux operating system on Flash memory
- Lockable slide-in unit for 1x HDD

Variants

002.003.000	DIS-2/M StreamerPro HDD Large UTP without HDDs 1x analogue video channel Please note: HDD must be ordered separately!

Options

000.213	19" bracket, for up to 4 units (2HU)
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

200.120FS	Dual Stream for DIS series

DIS-2 Multi-D HD

Available shortly!

The DIS-2 Multi-D HD is a 1 channel high-definition audio and video decoder in modular design with recording capability. It is able to receive audio and video streams in various encodings via an Ethernet network (unicast or multicast), decode and record them and output them in real-time via its HDMI interface (up to 1080p). The DIS-2 Multi-D HD is designed for installation and operation in a 19" module rack. In the case of a service the DIS-2 Multi-D HD modules can be quickly and easily exchanged (hot-plug functionality).

- 1x IP based video decoder channel
- Simultaneous decoding, recording, live display and playback
- Supported video formats: MPEG-2/-4, H.264 1)
- Supported audio formats: MPEG-1 Layer 2, G.722 1)
- Bit rate (constant or dynamic) up to 16 Mbps
- HDMI ready with an output format of up to 1080p 1)
- Fast display times, low delay (less than 100ms)
- Upscaling from SD to 720p, 1080i or 1080p 1)
- Video outputs: 1x HDMI, 1x CVBS/BNC
- Configuration with web browser via Ethernet
- Evaluation with SeMSy® or PView 7 via Ethernet
- Linux operating system on Flash memory
- Modular design with hot-plug functionality of the individual components
- Available as variant with 2 HDDs, 1 HDD or without HDDs

1) In development

Variants

002.006.0.000.000	DIS-2 Multi-D HD 390 mm 1x IP based video channel
002.006.1.000.000	DIS-2 Multi-D HD 550 mm for 1x HDD 1x IP based video channel Please note: HDDs must be ordered separately!
002.006.2.000.000	DIS-2 Multi-D HD 700 mm for 2x HDDs 1x IP based video channel Please note: HDDs must be ordered separately!

Options

002.000.11.390	19" module rack 390, (L390 mm x 3HU) for the installation of up to 10 modules without HDD's, incl. power supply and fan
002.000.11.550	19" module rack 550, (L550 mm x 3HU) for the installation of up to 10 modules with 1x HDD, incl. power supply and fan
002.000.11.700	19" module rack 700, (L700 mm x 3HU) for the installation of up to 10 modules with 2x HDDs, incl. power supply and fan
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

DIS-2/M DecoderPro HD

Available shortly!

The DIS-2/M DecoderPro HD is a 1 channel stand-alone high-definition audio and video decoder. It is able to receive audio and video streams in various encodings via an Ethernet network (unicast or multicast), simultaneously decode them and output them in real-time via its HDMI interface (up to 1080p). The DIS-2/M DecoderPro HD is a stand-alone decoder. Its compact and robust design allows the decoder to be used ad-hoc and in a multitude of locations.

- 1x IP based video channel
- Simultaneous decoding and live display
- Supported video formats: MPEG-2/-4, H.264 1)
- Supported audio formats: MPEG-1 Layer 2, G.722 1)
- Bit rate (constant or dynamic) up to 16 Mbps
- HDMI ready with an output format of up to 1080p 1)
- Video outputs: 1x HDMI, 1x CVBS/BNC
- Fast display times, low delay (less than 100ms)
- Upscaling from SD to 720p, 1080i or 1080p 1)
- Configuration with web browser via Ethernet
- Evaluation with SeMSy® or PView 7 via Ethernet
- Linux operating system on Flash memory

1) In development

Variants

002.008.000	DIS-2/M DecoderPro HD 1x IP based video decoder channel

Options

002.001.390	19" module rack, (L390 mm x 3HU) for the installation of up to 10 single devices, incl. power supply unit and its depositing rack
000.214	19" bracket, for up to 4 units (1HU)

DIS-2/M NSU

The DIS-2/M NSU is a 1 channel audio and video streamer in modular construction with recording capability. It is able to receive audio and video streams in various encodings via an Ethernet network (unicast or multicast), record them, play back and output them as a stream. The DIS-2/M NSU is conceived for mounting and operation in a 19" module rack. In the case of a service the DIS-2/M NSU modules can be quickly and easily exchanged (hot-plug functionality).

- 1x IP based video channel
- Simultaneous recording, streaming, live display and playback
- Supported video formats: MPEG-2/-4, MJPEG, H.264 1)
- Supported audio formats: MPEG-1 Layer 2, G.722 1)
- Bit rate (constant or dynamic) up to 16 Mbps
- Resolutions: SD, HD (720p, 1080i, 1080p)
- Frame rate up to 25 fps at all resolutions
- Configuration with web browser via Ethernet
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated motion detection and SmartFinder
- Linux operating system on Flash memory
- Modular design with hot-plug functionality of the individual modules
- Available as variant with 2 HDDs or 1 HDD

1) In development

Variants

002.004.1.000.000	DIS-2/M NSU 550 mm for 1x HDD 1x IP based video channel Please note: HDDs must be ordered separately!
002.004.2.000.000	DIS-2/M NSU 700 mm for 2x HDDs 1x IP based video channel Please note: HDDs must be ordered separately!

Options

002.000.11.550	19" module rack 550, (L550 mm x 3HU) for the installation of up to 10 modules with 1x HDD, incl. power supply and fan
002.000.11.700	19" module rack 700, (L700 mm x 3HU) for the installation of up to 10 modules with 2x HDDs, incl. power supply and fan
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

EDS-1 HD

Available shortly!

The EDS-1 HD is a high-definition 1 channel audio and video encoder, decoder and streamer with recording capability. It is able to receive analogue audio and video data in real-time, encode and record them and output them via an Ethernet network (unicast or multicast) as a stream. Furthermore, the EDS-1 HD is able to receive audio and video streams via an Ethernet network (unicast or multicast), decode them and output them via its HDMI interface (up to 1080p). The EDS-1 HD is a stand-alone device in compact design (1HU). Additionally, it is designed for installation in a 19" rack and operation in control and server rooms.

- 1x IP based video decoder channel
- 1x analogue video encoder channel
- Simultaneous decoding, encoding, recording, live display and playback
- Supported video formats: MPEG-2/-4, MJPEG, H.264 1)
- Supported audio formats: MPEG-1 Layer 2, G.722 1)
- Bit rate (constant or dynamic) up to 16 Mbps
- HDMI ready with an output format of up to 1080p 1)
- Video outputs: 1x HDMI, 1x CVBS/BNC
- Fast display times, low delay (less than 100ms)
- Upscaling from SD to 720p, 1080i or 1080p 1)
- Configuration with web browser via Ethernet
- Evaluation with SeMSy® or PView 7 via Ethernet
- Linux operating system on Flash memory
- Optionally available: 1x hard disk for recording at the decoder and 1x hard disk for recording at the encoder
- Internal RAID 1 optionally available, but only possible for variants with 2x hard disks at the encoder
- Compact design, 1HU
- Provided with power supply unit and 19" mount for installation in a 19" rack

1) In development

Variants

001.141.2.011.000	EDS-1 HD
001.141.2.202.000	EDS-1 HD for 2x HDDs 2x HDDs (decoding) Please note: HDDs must be ordered separately!
001.141.2.211.000	EDS-1 HD for 2x HDDs 1x HDD (decoding) and 1x HDD (encoding) Please note: HDDs must be ordered separately!
001.141.2.220.000	EDS-1 HD for 2x HDDs 2x HDDs (encoding) Please note: HDDs must be ordered separately!

Options

200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

200.120FS	Dual Stream for DIS series

WSD-2 HD

Available shortly!

The WSD-2 HD is a high-definition 2 channel audio and video decoder with recording capability. It is able to receive audio and video streams via an Ethernet network (unicast or multicast), decode them and output them via its HDMI interfaces (up to 1080p). The WSD-2 HD is a stand-alone device in compact design (1HU). Additionally, it is designed for the installation in a 19" rack and operation in control and server rooms.

- 2x IP based video decoder channels
- Simultaneous decoding, recording, live display and playback
- Supported video formats: MPEG-2/-4, H.264 1)
- Supported audio formats: MPEG-1 Layer 2, G.722 1)
- Bit rate (constant or dynamic) up to 16 Mbps
- HDMI ready with an output format of up to 1080p 1)
- Video outputs: 2x HDMI, 2x CVBS/BNC
- Fast display times, low delay (less than 100ms)
- Upscaling from SD to 720p, 1080i or 1080p 1)
- Configuration with web browser via Ethernet
- Evaluation with SeMSy® or PView 7 via Ethernet
- Linux operating system on Flash memory
- 2x HDDs for recording optionally available
- Compact design, 1HU
- Provided with power supply unit and 19" bracket for installation into a 19" rack

1) In development

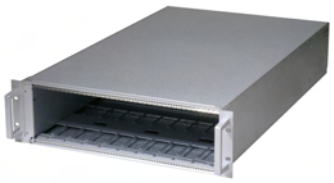
Variants

001.241.2.011.000	WSD-2 HD
001.241.2.211.000	WSD-2 HD for 2x HDDs 1x HDD (decoder right) and 1x HDD for (decoder left) Please note: HDDs must be ordered separately!

Options

100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

DIS-2/M Module Rack



The DIS-2/M Module Rack is a 3 HU slide-in module for 19'' standard racks. It can house up to 10 DIS-2/M modules (without HDD, 1 HDD, 2 HDD) and is correspondingly provided in different lengths. Two integrated power supply units (redundant, hot-plug) provide power for the integrated controller and all DIS-2/M modules.

- Supported DIS-2/M modules: DIS-2/M UTP, DIS-2 Multi-D, DIS-2 Multi-D HD, DIS-2/M NSU
- Available in 3 variants (700mm, 550mm, 390mm)
- 2 redundant power supply units with integrated fans
- Messages (power supply unit or fan failure) to all installed DIS-2/M modules

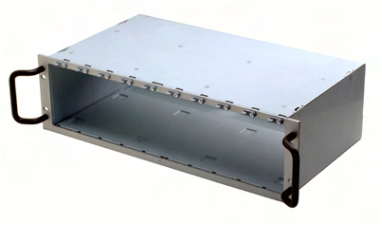
Variants

002.000.11.390	19" module rack 390 (L390 mm x 3HU) for the installation of up to 10 modules without HDD's incl. power supply and fan
002.000.11.550	19" module rack 550 (L550 mm x 3HU) for the installation of up to 10 modules with 1x HDD incl. power supply and fan
002.000.11.700	19" module rack 700 (L700 mm x 3HU) for the installation of up to 10 modules with 2x HDDs incl. power supply and fan

Options

002.000.000	Cover plate for covering unused bays of module rack

DIS-2/M StreamerPro Module Rack



The DIS-2/M StreamerPro Module Rack is a 3 HU slide-in module for 19" standard racks. It can house up to 10 DIS-2/M StreamerPro UTP modules.

- Module rack in 19" rack drawer-unit design for holding up to 10 individual DIS-2/M StreamerPro UTP
- Dimensions (W x H x D): 483 x 132.5 x 255 mm (3HU)
- Power supply: 230V AC/115V AC (50Hz/60Hz)
- Provided with power supply unit und its depositing rack

Variants

002.001.390	19" module rack (L390 mm x 3HU) for the installation of up to 10 single devices incl. power supply unit and its depositing rack

Options

002.000.001	Cover plate for covering unused bays of module rack

Overview encoders/streamers

MicroStreamer-PoE

DIS-2/M UTP

DIS-2/M StreamerPro UTP

DIS-2/M StreamerPro HDD Large UTP

Operating mode	Encoding, streaming	Encoding, recording, streaming, live display, playback	Encoding, streaming, live display	Encoding, recording, streaming, live display, playback
Max. video encoder channels	1x analogue video channel	1x analogue video channel	1x analogue video channel	1x analogue video channel
Supported cameras	Analogue cameras of Dallmeier and of third party	Analogue cameras of Dallmeier and of third party	Analogue cameras of Dallmeier and of third party	Analogue cameras of Dallmeier and of third party
Supported video/audio formats	MPEG-2, MPEG-4, MJPEG / MPEG-1 Layer 2	MPEG-2, MPEG-4, MJPEG / MPEG-1 Layer 2	MPEG-2, MPEG-4, MJPEG / MPEG-1 Layer 2	MPEG-2, MPEG-4, MJPEG / MPEG-1 Layer 2
Frame rate per encoder channel	Up to 25 fps / 30 fps	Up to 25 fps / 30 fps	Up to 25 fps / 30 fps	Up to 25 fps / 30 fps
Resolution per encoder channel	D1, 4CIF, Half D1, 2CIF, CIF, QCIF	D1, 4CIF, Half D1, 2CIF, CIF, QCIF	D1, 4CIF, Half D1, 2CIF, CIF, QCIF	D1, 4CIF, Half D1, 2CIF, CIF, QCIF
Interfaces				
Video inputs	1x CVBS/BNC	1x CVBS/BNC, 1x S-video, 1x UTP/RJ45	1x CVBS/BNC, 1x S-video, 1x UTP/RJ45	1x CVBS/BNC, 1x S-video, 1x UTP/RJ45
Audio inputs	1 x 3.5 mm phone jack (stereo)	1x 3.5 mm phone jack (Aux-Line IN, stereo)	1x 3.5 mm phone jack (Aux-Line IN, stereo)	1x 3.5 mm phone jack (Aux-Line IN, stereo)
Ethernet	1x RJ45, 10/100 Mbps	1x RJ45, 10/100 Mbps	1x RJ45, 10/100 Mbps	1x RJ45, 10/100 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP
Contact IN / relay OUT	-	4x, each 1 function / 4x, as NC or NO	4x, each 1 function / 4x, as NC or NO	4x, each 1 function / 4x, as NC or NO
Serial	1x RS485	1x RS485	1x RS485	1x RS485
Integrated functions				
Configuration	Via web browser	Via web browser	Via web browser	Via web browser
Recording mode	-	Permanent, motion, contact	-	Permanent, motion, contact
Motion detection	Integrated	Integrated	Integrated	Integrated
SmartFinder	-	Integrated	-	Integrated
Dual Stream	-	Optional activation	Optional activation	Optional activation
UTC compatibility	-	Integrated	Integrated	Integrated
Languages	German, English, French, Italian (others on request)	German, English, French, Italian (others on request)	German, English, French, Italian (others on request)	German, English, French, Italian (others on request)
Further specifications				
Exchangeable hard disks	-	-	-	Up to 1x 3.5" (optional)
Internal hard disks	64MB RAM ring buffer (pre- and post alarm, network failure compensation)	Up to 2x 3.5" (optional)	-	-
Max. storage capacity	-	Up to 2 TB	-	Up to 1 TB
Video norm	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)
Voltage supply	24V AC +/- 10% (50/60 Hz) oder via PoE (Class 0)	12V DC +/-5%	12V DC +/-10%	12V DC +/-5%
Power consumption	Max. 6 W	Max. 25 W	Max. 25 W	Max. 17 W
Heating power	Max. 20 BTU/h	Max. 85 BTU/h	Max. 85 BTU/h	Max. 58 BTU/h
Operating temperature	-10°C - 45°C, recommended 0°C - 35°C	+5°C - 40°C	+5°C - 40°C	+5°C - 40°C
Humidity	0 - 90% RH non-condensing	5 - 70% RH non-condensing	5 - 70% RH non-condensing	5 - 70% RH non-condensing
Operating system	Linux	Linux	Linux	Linux
Dimensions (W x H x D)	Approx. 45 x 45 x 108 mm	Approx. 41 x 129 x 228 mm (without HDDs) Approx. 41 x 129 x 378 mm (with 1x HDD) Approx. 41 x 129 x 538 mm (with 2x HDDs)	Approx. 129 x 44 (1HU) x 245 mm	Approx. 129 x 88 (2HU) x 245 mm
Weight	Approx. 0.25 kg	Approx. 2.5 kg	Approx. 1 kg	Approx. 2 kg
Applicability	Stand-alone	In a 19" module rack	In a 19" module rack or stand-alone	Stand-alone
Used in	Office, control and server rooms	Control and server rooms	Office, control and server rooms	Office, control and server rooms
Approvals/certifications	CE	CE, UL, CB, Kalagate	CE	CE

Overview encoders/streamers

DIS-2/M NSU

Operating mode	Streaming, recording, live display, playback
Max. video encoder channels	-
Supported cameras	IP cameras of Dallmeier and of third party, incl. megapixel and high-definition cameras
Supported video/audio formats	MPEG-2, MPEG-4, MJPEG, H.264 / MPEG-1 Layer 2, G.722
Frame rate per encoder channel	Up to 50 fps / 60 fps
Resolution per encoder channel	SD, HD (720p, 1080i, 1080p), up to 8MP
Interfaces	
Video inputs	-
Audio inputs	-
Ethernet	1x RJ45, 10/100 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP
Contact IN / relay OUT	4x, each 1 function / 4x, as NC or NO
Serial	-
Integrated functions	
Configuration	Via web browser
Recording mode	Permanent, motion, contact
Motion detection	Integrated
SmartFinder	Integrated
Dual Stream	-
UTC compatibility	-
Languages	German, English, French, Italian (others on request)
Further specifications	
Exchangeable hard disks	-
Internal hard disks	Up to 2x 3.5" (optional)
Max. storage capacity	Up to 2 TB
Video norm	HDTV, SDTV (PAL/NTSC)
Voltage supply	12V DC +/-5%
Power consumption	Max. 17 W
Heating power	Max. 58 BTU/h
Operating temperature	+5°C - 40°C
Humidity	5 - 70% RH non-condensing
Operating system	Linux
Dimensions (W x H x D)	Approx. 41 x 129 x 228 mm (without HDDs) Approx. 41 x 129 x 378 mm (with 1x HDD) Approx. 41 x 129 x 538 mm (with 2x HDDs)
Weight	Max. 2.5 kg
Applicability	In a 19" module rack
Used in	Control and server rooms
Approvals/certifications	CE, UL, CB, Kalagate

Overview decoders

DIS-2 Multi-D HD

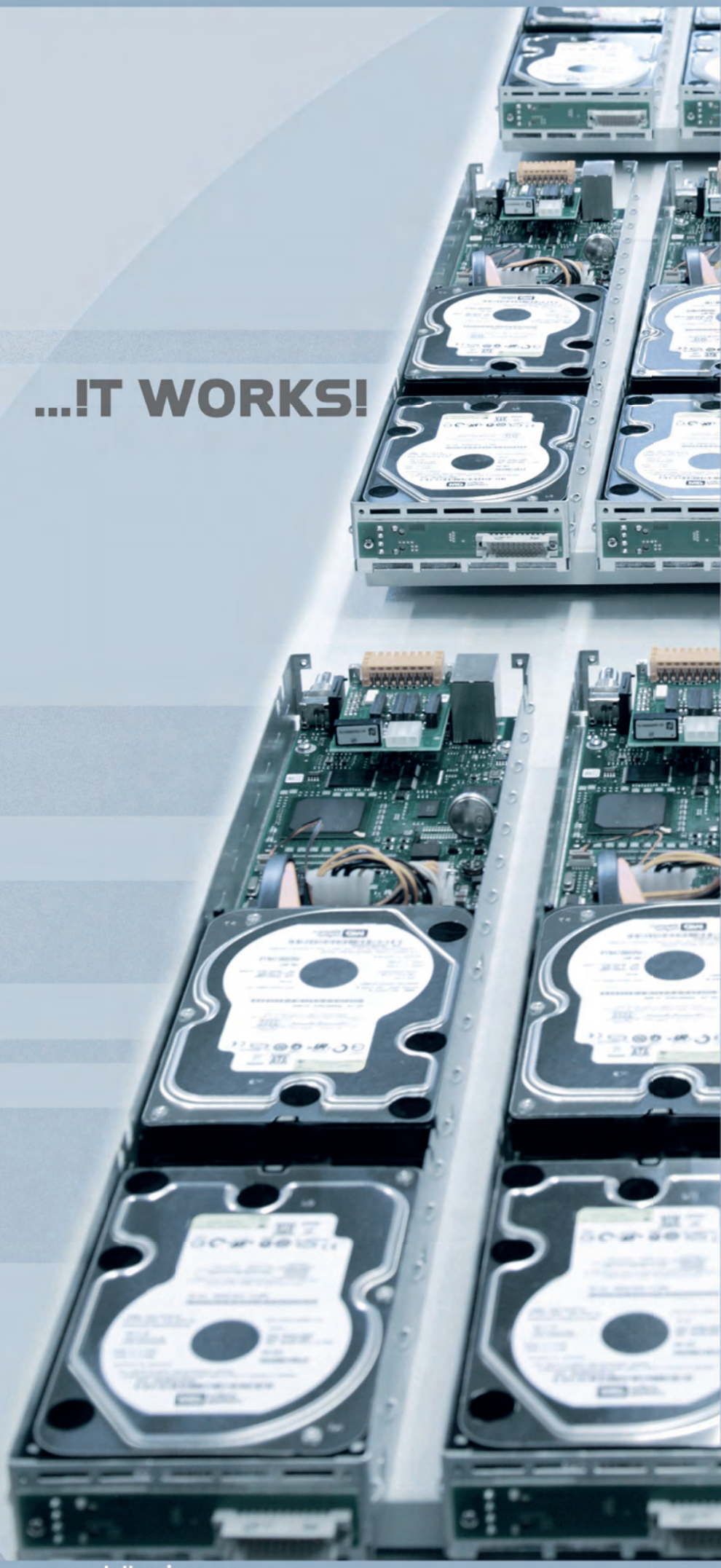
DIS-2/M DecoderPro HD

EDS-1 HD

WSD-2 HD

Operating mode	Decoding, recording, live display, playback	Decoding, live display	Decoding, encoding, recording, live display, playback	Decoding, recording, live display, playback
Max. video decoder channels	1x IP based video channel	1x IP based video channel	1x IP based video channel	2x IP based video channels
Max. video encoder channels	-	-	1x analogue video channel	-
Supported cameras	IP cameras of Dallmeier and of third party, incl. megapixel and high-definition cameras	IP cameras of Dallmeier and of third party, incl. megapixel and high-definition cameras	Analogue and IP cameras of Dallmeier and of third party, incl. megapixel and high-definition cameras	IP cameras of Dallmeier and of third party, incl. megapixel and high-definition cameras
Supported video/audio formats	MPEG-2, MPEG-4, MJPEG, H.264 / MPEG-1 Layer 2, G.722	MPEG-2, MPEG-4, MJPEG, H.264 / MPEG-1 Layer 2, G.722	MPEG-2, MPEG-4, MJPEG, H.264 / MPEG-1 Layer 2, G.722	MPEG-2, MPEG-4, MJPEG, H.264 / MPEG-1 Layer 2, G.722
Frame rate per decoder channel (HDTV)	Up to 50 fps / 60 fps	Up to 50 fps / 60 fps	Up to 50 fps / 60 fps	Up to 50 fps / 60 fps
Frame rate per decoder channel (SDTV)	Up to 25 fps / 30 fps	Up to 25 fps / 30 fps	Up to 25 fps / 30 fps	Up to 25 fps / 30 fps
Frame rate per encoder channel	-	-	Up to 25 fps at 4CIF, DCIF, 2CIF, CIF, QCIF	-
Resolution per decoder channel (HDTV)	720p, 1080i (1080p tentative)	720p, 1080i (1080p tentative)	720p, 1080i (1080p tentative)	720p, 1080i (1080p tentative)
Resolution per decoder channel (SDTV)	576p / 480p	576p / 480p	576p / 480p	576p / 480p
Resolution per encoder channel	-	-	D1, 4CIF, Half D1, 2CIF, CIF, QCIF	-
Interfaces				
Video inputs	-	-	1x CVBS/BNC, 1x S-video, 1x UTP	-
Video outputs	1x HDMI, 1x CVBS/BNC	1x HDMI, 1x CVBS/BNC	1x HDMI, 1x CVBS/BNC	2x HDMI, 2x CVBS/BNC
Audio inputs	-	-	1x 3.5 mm phone jack (stereo)	-
Audio outputs	1x 3.5 mm phone jack (stereo)	1x 3.5 mm phone jack (stereo)	1x 3.5 mm phone jack (stereo)	2x 3.5 mm phone jack (stereo)
Ethernet	1x RJ45, 10/100 Mbps	1x RJ45, 10/100/1000 Mbit	2x RJ45, 10/100/1000 Mbps	2x RJ45, 10/100/1000 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, RTP, RTCP
Contact IN / relay OUT	-	-	4x, each 1 function / 4x, as NC or NO	-
Serial	1x RS232/RJ12	1x RS232/RJ12	Via web browser	2x RS232/RJ12
Integrated functions				
Configuration	Via web browser	Via web browser	Via web browser	Via web browser
Recording mode	Permanent	Permanent	Permanent (decoder channel) Permanent, motion, contact (encoder channel)	Permanent
Motion detection	-	-	Integrated (encoder channel)	-
SmartFinder	-	-	Integrated (encoder channel)	-
Dual Stream	-	-	Optional activation (encoder channel)	-
UTC compatibility	-	-	Integrated (encoder channel)	-
Languages	German, English, French, Italian (others on request)	German, English, French, Italian (others on request)	German, English, French, Italian (others on request)	German, English, French, Italian (others on request)
Further specifications				
Exchangeable hard disks	-	-	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)
Internal hard disks	Up to 2x 3.5" (optional)	-	-	-
Max. storage capacity	Up to 2 TB	-	Up to 2 TB	Up to 2 TB
Video norm	HDTV, SDTV (PAL/NTSC)	HDTV, SDTV (PAL/NTSC)	HDTV, SDTV (PAL/NTSC)	HDTV, SDTV (PAL/NTSC)
Voltage supply	12V DC +/-5%	12V DC +/-10%	12V DC +/-5%	12V DC +/-5%
Power consumption	Max. 25 W	Max. 25 W	Max. 50 W	Max. 50 W
Heating power	Max. 85 BTU/h	Max. 85 BTU/h	Max. 170 BTU/h	Max. 170 BTU/h
Operating temperature	+5°C - 40°C	+5°C - 40°C	+5°C - 40°C	+5°C - 40°C
Humidity	5 - 70% RH non-condensing	5 -70% RH non-condensing	5 -70% RH non-condensing	5 - 70% RH non-condensing
Operating system	Linux	Linux	Linux	Linux
Fan	-	-	2x	2x
Dimensions (W x H x D)	Approx. 41 x 129 x 228 mm (without HDDs) Approx. 41 x 129 x 378 mm (with 1x HDD) Approx. 41 x 129 x 538 mm (with 2x HDDs)	Approx. 129 x 44 x 245 mm	Approx. 425 x 44 (1HU) x 351 mm	Approx. 425 x 44 (1HU) x 351 mm
Weight	Approx. 2.5 kg	Approx. 1 kg	8 - 10 kg	8 - 10 kg
Applicability	In a 19" module rack	In a 19" module rack or stand-alone	In a 19" rack via 19" brakets or stand-alone	In a 19" rack via 19" brakets or stand-alone
Used in	Control and server rooms	Office, control and server rooms	Control and server rooms	Control and server rooms
Approvals/certifications	CE, UL, CB, Kalagate	CE	CE, FCC, ACA, DIN EN 50130-4	CE, FCC, ACA, DIN EN 50130-4CE, FCC, ACA, DIN EN 50130-4

...!T WORKS!



Product history: Dallmeier recorders

With every new Dallmeier recorder generation the technology has been developed and enhanced. One thing, however, has not changed ever since the first model was built. This is the philosophy applied to each product – in developing and manufacturing its recorders, Dallmeier has always placed special emphasis on functionality and user-friendliness as well as on quality and reliability.

For more than fifteen years now, digital technology has been used in video surveillance. Dallmeier has been a true pioneer in this area and developed the world's first video sensor with digital picture memory, which was introduced to a broad professional audience for the first time in 1992 during the Security/Essen trade show.

Since that time, with every new recorder built, a growing amount of technical expertise, experience and know-how has been incorporated into the development of the product. Additional functionalities and enhanced ease of use, higher performance capabilities and an increase in security ensure that the Dallmeier devices are always ahead of their time.

Apart from technical finesse, product design is becoming increasingly important. From 1999 onwards, when the second generation of recorders was launched, the recording systems have been characterised by air inlets for the fan, on the front cover of the devices, which have become typical for Dallmeier recorders. They are a unique distinguishing mark of the devices. High-value materials and an appealing design give the sophisticated technical core of the Dallmeier recorders the appropriate look.

2009 · DIS-2 Multi-D HD
High-definition 1 channel audio and video decoder

2008 · DIS-2/M NSU
Network storage unit

2008 · VNS 16
Audio and video network system

1992 · DMS 180 I
First digital video sensor
with alarm picture storage

2000 · DMS 180 II
First digital video recorder
with image storage and
transmission and Kalagate approval

2002 · DMS 180 III
First VdS certified
HDD recorder with
SEDOR® technology

2006 · H.264 recorder
"In Memory of Leonardo"

2007 · DIS-2/M UTP
1 channel audio and video
encoder in modular construction

2007 · DIS-2 Multi-D
1 channel audio and
video decoder with matrix
functionality

Hybrid recorders

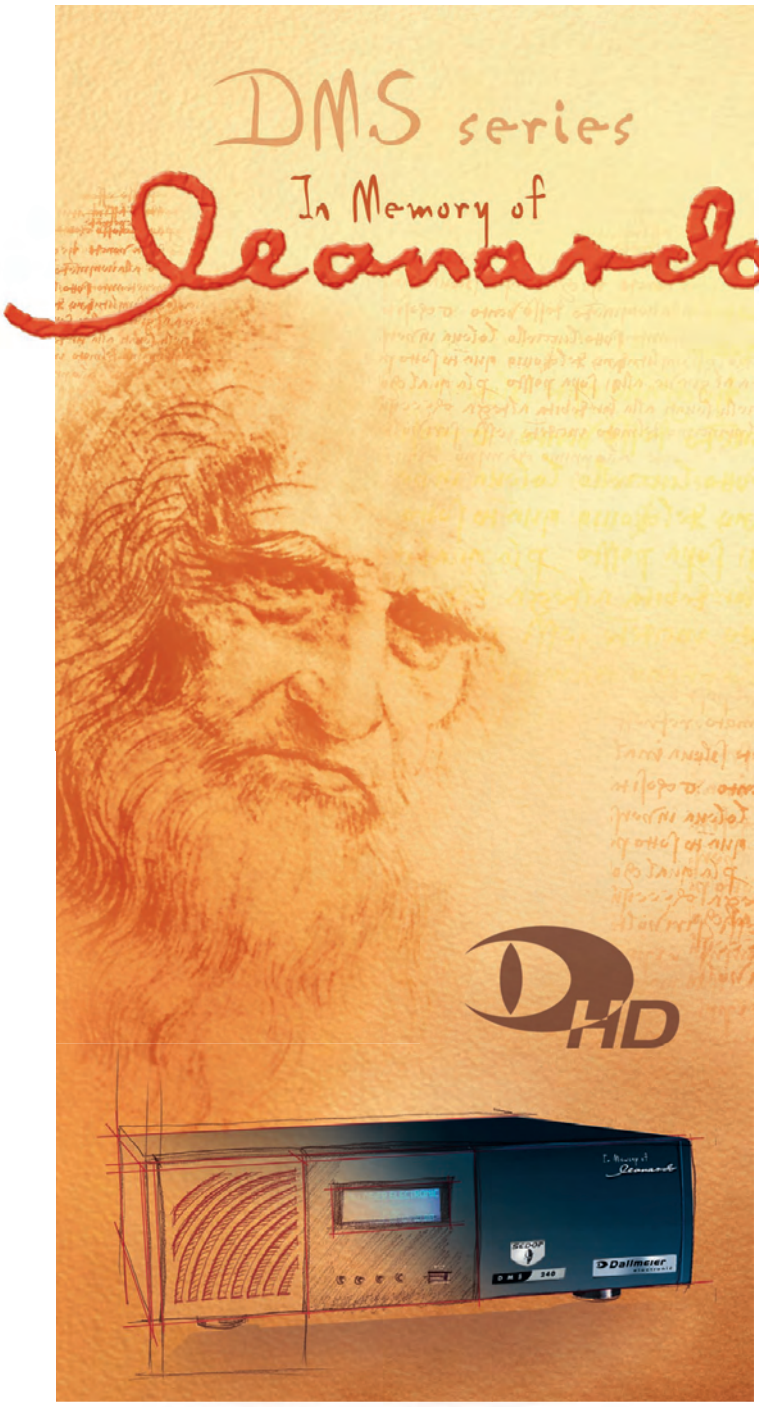
Top security, stability and flexibility

In the development of the DMS series "In Memory of Leonardo", the CCTV specialists at Dallmeier have sought inspiration from Leonardo da Vinci's pioneering, boundary-transcending inventions. As a result they produced – as a kind of homage to the universal genius – high quality products with cutting-edge components and technical refinements which far exceed normal market standards and open up new dimensions for security systems. The DMS series "In Memory of Leonardo" offers you the technology of the future – here today.

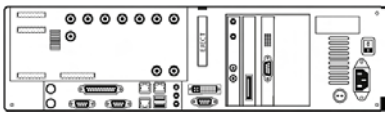
The security hardware design for the DMS series "In Memory of Leonardo" is based on high-end developments and many years of experience. The components were developed by the highest standards, with their tested stability and reliability guaranteeing a longterm availability of the system.

The digital video recorders of the DMS series "In Memory of Leonardo" allow real-time recording and offer up to 24 camera inputs, whereby audio is available for all channels.
Another feature is the hybrid functionality, which means that analogue and IP devices can be jointly operated. The user thus has the option to quickly and easily integrate the recorder into existing system configurations. Furthermore, the recorders are HD ready. The H.264 compression standard ensures that HD cameras can even be used with small bandwidths.

With the DSP technology (Digital Signal Processing) the DMS series "In Memory of Leonardo" features a platform which is a secure investment and which is open to future updates of the codec method or any other further developments. Therefore, the recorders remain state-of-the-art and up-to-date for a long time.



DMS 80



The DMS 80 is a stand-alone hybrid audio and video recorder with up to 24 channels. The basic version with 8 analogue channels can be expanded by 8/16 IP based channels with an activation code.

- Up to 8 analogue and 16 IP based video channels (SD/HD)
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- Hybrid recording: H.264, MPEG-4, MJPEG
- Audio compression: G.722, MPEG-1 Layer 2
- Bit rate up to 1.5 Mbps with analogue cameras, up to 4 Mbps with IP cameras
- Resolution with analogue cameras: up to 4CIF
- Resolution with IP cameras: SD, HD (720p, 1080i, 1080p), up to 8 MB
- Frame rate per channel up to 12 fps at CIF with analogue cameras, up to 25 fps at D1 with IP cameras
- Variable recording mode (VRM): event-triggered switchover of the recording quality
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder and privacy zones for analogue cameras
- Integrated motion detection for analogue and Dallmeier IP cameras
- Live browser access and integrated UTC compatibility
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- 12V output for the external storage expansion DAS-4 Eco
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

Variants

080.000.000.008	DMS 80 without HDDs 8x analogue video channels Please note that HDDs must be ordered separately!
080.000.100.308	DMS 80, ready for storage with 2x 500 GB HDDs 8x analogue video channels

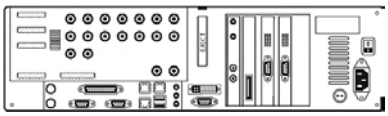
Options

000.194	19" bracket, for a 3HU single device
180.900	VdS installation kit, incl. mounting kit and protective cover for the connections
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
010.240	DVI digital output
100.030	FC interface (fiber optic), for connecting DAS-303 (see storage systems), only ex factory
100.090	SATA interface, for connecting DAS-4 Eco (see storage systems), only ex factory
200.210.1	RS485 kit, for the direct control of Dallmeier PTZ dome cameras at the recorder, -DCCP activation included- (only ex factory)
702.043	Slimline DVD+RW drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.033.3	DNI-1 Scheidt & Bachmann cash desk
100.034	DNI-1 basis set, for the connection of an external data interface (such as ATM, access control, cash register, etc.), More information can be found in our Partner Forum under "Documentations".
100.035	DNI-1/E expansion module
100.037.3	DNI-1 Huth cash desk basis set, for connecting a Huth central computer (for up to 4 cashier work stations) incl. tranmitter
100.038	DNI-1 Huth expansion module
100.050	DNI-TA24, for connecting the TA-24 MS keyboard
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

Activations

000.208FS	SEDOR® camera sabotage protection
100.101.FS	ATM activity survey
100.102.FS	D/N-RC - Day/Night Remote Control
100.109.FS	SmartFinder advance
100.118.FS	Anbindung Kassen: Daten können von AWEK-Kassensystemen über LAN empfangen werden. Die Daten werden gespeichert und können bei der Bildsuche (erweiterte Suche) verwendet werden.
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.130	SNMP (SI-package SYS-Watch)
200.202FS.4	DVR4 EBÜS standard image transmission
200.234FS	VNC server
240.003.8.1	Hybrid activation: 8 analogue / 1 IP based video channel (SD/HD)
240.003.8.16	Hybrid activation: 8 analogue / 16 IP based video channels (SD/HD)
240.003.8.2	Hybrid activation: 8 analogue / 2 IP based video channels (SD/HD)
240.003.8.4	Hybrid activation: 8 analogue / 4 IP based video channels (SD/HD)
240.003.8.8	Hybrid activation: 8 analogue / 8 IP based video channels (SD/HD)

DMS 160



The DMS 160 is a stand-alone hybrid audio and video recorder with up to 24 channels. The basic version with 16 analogue channels can be expanded by 8 IP based channels with an activation code.

- Up to 16 analogue and 8 IP based video channels (SD/HD)
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- Hybrid recording: H.264, MPEG-4, MJPEG
- Audio compression: G.722, MPEG-1 Layer 2
- Bit rate up to 1.5 Mbps with analogue cameras, up to 4 Mbps with IP cameras
- Resolution with analogue cameras: up to 4CIF
- Resolution with IP cameras: SD, HD (720p, 1080i, 1080p), up to 8 MB
- Frame rate per channel up to 12 fps at CIF with analogue cameras, up to 25 fps at D1 with IP cameras
- Variable recording mode (VRM): event-triggered switchover of the recording quality
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder and privacy zones for analogue cameras
- Integrated motion detection for analogue and Dallmeier IP cameras
- Live browser access and integrated UTC compatibility
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- 12V output for the external storage expansion DAS-4 Eco
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

Variants

160.000.000.016	DMS 160 without HDDs 16x analogue video channels Please note that HDDs must be ordered separately!
160.000.100.316	DMS 160, ready for storage with 2x 500 GB HDDs 16x analogue video channels

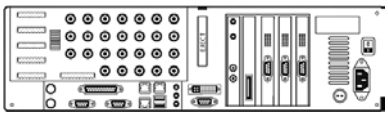
Options

000.194	19" bracket, for a 3HU single device
180.900	VdS installation kit, incl. mounting kit and protective cover for the connections
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
010.240	DVI digital output
100.030	FC interface (fiber optic), for connecting DAS-303 (see storage systems), only ex factory
100.090	SATA interface, for connecting DAS-4 Eco (see storage systems), only ex factory
200.210.1	RS485 kit, for the direct control of Dallmeier PTZ dome cameras at the recorder, -DCCP activation included- (only ex factory)
702.043	Slimline DVD+RW drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.033.3	DNI-1 Scheidt & Bachmann cash desk
100.034	DNI-1 basis set, for the connection of an external data interface (such as ATM, access control, cash register, etc.), More information can be found in our Partner Forum under "Documentations".
100.035	DNI-1/E expansion module
100.037.3	DNI-1 Huth cash desk basis set, for connecting a Huth central computer (for up to 4 cashier work stations) incl. tranmitter
100.038	DNI-1 Huth expansion module
100.050	DNI-TA24, for connecting the TA-24 MS keyboard
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

Activations

000.209FS	SEDOR® camera sabotage protection
100.101.FS	ATM activity survey
100.102.FS	D/N-RC - Day/Night Remote Control
100.109.FS	SmartFinder advance
100.118.FS	Anbindung Kassen: Daten können von AWEK-Kassensystemen über LAN empfangen werden. Die Daten werden gespeichert und können bei der Bildsuche (erweiterte Suche) verwendet werden.
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.130	SNMP (SI-package SYS-Watch)
200.202FS.4	DVR4 EBÜS standard image transmission
200.234FS	VNC server
240.003.16.1	Hybrid activation: 16 analogue / 1 IP based video channel (SD/HD)
240.003.16.2	Hybrid activation: 16 analogue / 2 IP based video channels (SD/HD)
240.003.16.4	Hybrid activation: 16 analogue / 4 IP based video channels (SD/HD)
240.003.16.8	Hybrid activation: 16 analogue / 8 IP based video channels (SD/HD)

DMS 240



The DMS 240 is a stand-alone hybrid audio and video recorder with up to 24 channels. The basic version with 8 analogue channels can be expanded by 8/16 analogue channels or activated with 8/16 IP based channels.

- Up to 24 analogue and 16 IP based video channels (max. 24 channels in total) (SD/HD)
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- Hybrid recording: H.264, MPEG-4
- Audio compression: G.722, MPEG-1 Layer 2
- Bit rate up to 2 Mbps with analogue cameras, up to 4 Mbps with IP cameras
- Resolution with analogue cameras: up to 4CIF
- Resolution with IP cameras: SD, HD (720p, 1080i, 1080p), up to 8 MB
- Frame rate per channel up to 12 fps at 4CIF with analogue cameras, up to 25 fps at D1 with IP cameras
- Variable recording mode (VRM): event-triggered switchover of the recording quality
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones and SEDOR® camera sabotage protection for analogue cameras
- Integrated motion detection for analogue and Dallmeier IP cameras
- Live browser access and integrated UTC compatibility
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- 12V output for the external storage expansion DAS-4 Eco
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

Variants

240.000.000.008	DMS 240 without HDDs 8x analogue video channels Please note that HDDs must be ordered separately!
240.000.000.016	DMS 240 without HDDs 16x analogue video channels Please note that HDDs must be ordered separately!
240.000.000.024	DMS 240 without HDDs 24x analogue video channels Please note that HDDs must be ordered separately!
240.000.100.308	DMS 240, ready for storage with 2x 500 GB HDDs 8x analogue video channels
240.000.100.316	DMS 240, ready for Storage with 2x 500 GB HDDs 16x analogue video channels
240.000.100.324	DMS 240, ready for Storage with 2x 500 GB HDDs 24x analogue video channels

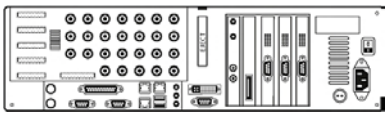
Options

000.194	19" bracket, for a 3HU single device
180.900	VdS installation kit, incl. mounting kit and protective cover for the connections
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
010.240	DVI digital output
100.030	FC interface (fiber optic), for connecting DAS-303 (see storage systems), only ex factory
100.090	SATA interface, for connecting DAS-4 Eco (see storage systems), only ex factory
200.210.1	RS485 kit, for the direct control of Dallmeier PTZ dome cameras at the recorder, -DCCP activation included- (only ex factory)
702.043	Slimline DVD+RW drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.033.3	DNI-1 Scheidt & Bachmann cash desk
100.034	DNI-1 basis set, for the connection of an external data interface (such as ATM, access control, cash register, etc.), More information can be found in our Partner Forum under "Documentations".
100.035	DNI-1/E expansion module
100.037.3	DNI-1 Huth cash desk basis set, for connecting a Huth central computer (for up to 4 cashier work stations) incl. tranmitter
100.038	DNI-1 Huth expansion module
100.050	DNI-TA24, for connecting the TA-24 MS keyboard
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

Activations

100.101.FS	ATM activity survey
100.102.FS	D/N-RC - Day/Night Remote Control
100.109.FS	SmartFinder advance
100.118.FS	Anbindung Kassen: Daten können von AWEK-Kassensystemen über LAN empfangen werden. Die Daten werden gespeichert und können bei der Bildsuche (erweiterte Suche) verwendet werden.
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.120FS	Dual Stream
200.122FS	PRemote advance
200.130	SNMP (SI-package SYS-Watch)
200.202FS.4	DVR4 EBÜS standard image transmission
200.234FS	VNC server
240.003.16.1	Hybrid activation: 16 analogue / 1 IP based video channel (SD/HD)
240.003.16.2	Hybrid activation: 16 analogue / 2 IP based video channels (SD/HD)
240.003.16.4	Hybrid activation: 16 analogue / 4 IP based video channels (SD/HD)
240.003.16.8	Hybrid activation: 16 analogue / 8 IP based video channels (SD/HD)
240.003.8.1	Hybrid activation: 8 analogue / 1 IP based video channel (SD/HD)
240.003.8.16	Hybrid activation: 8 analogue / 16 IP based video channels (SD/HD)
240.003.8.2	Hybrid activation: 8 analogue / 2 IP based video channels (SD/HD)
240.003.8.4	Hybrid activation: 8 analogue / 4 IP based video channels (SD/HD)
240.003.8.8	Hybrid activation: 8 analogue / 8 IP based video channels (SD/HD)

DMS 240 HSR



The DMS 240 HSR is a stand-alone hybrid audio and video recorder with up to 24 channels. The basic version with 8 analogue channels can be expanded by 8/16 analogue channels or activated with 8/16 IP based channels. Furthermore, the DMS 240 HSR (High Speed, High Resolution) is optimised for recording high frame rates at high resolution.

- Up to 24 analogue and 16 IP based video channels (max. 24 channels in total) (SD/HD)
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- Hybrid recording: H.264, MPEG-4, MJPEG
- Audio compression: G.722, MPEG-1 Layer 2
- Bit rate up to 2 Mbps with analogue cameras, up to 4 Mbps with IP cameras
- Resolution with analogue cameras: up to 4CIF
- Resolution with IP cameras: SD, HD (720p, 1080i, 1080p), up to 8 MB
- Frame rate per channel up to 25 fps at 4CIF with analogue cameras, up to 25 fps at D1 with IP cameras
- Variable recording mode (VRM): event-triggered switchover of the recording quality
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones and SEDOR® camera sabotage protection for analogue cameras
- Integrated motion detection for analogue and Dallmeier IP cameras
- Live browser access and integrated UTC compatibility
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- 12V output for the external storage expansion DAS-4 Eco
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

Variants

240.003.000.008	DMS 240 HSR without HDDs 8x analogue video channels Please note that HDDs must be ordered separately!
240.003.000.016	DMS 240 HSR without HDDs 16x analogue video channels Please note that HDDs must be ordered separately!
240.003.000.024	DMS 240 HSR without HDDs 24x analogue video channels Please note that HDDs must be ordered separately!
240.003.100.308	DMS 240 HSR Ready for storage with 2x 500 GB HDDs 8x analogue video channels
240.003.100.316	DMS 240 HSR, ready for storage with 2x 500 GB HDDs 16x analogue video channels
240.003.100.324	DMS 240 HSR, ready for storage with 2x 500 GB HDDs 24x analogue video channels

Options

000.194	19" bracket, for a 3HU single device
180.900	VdS installation kit, incl. mounting kit and protective cover for the connections
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
010.240	DVI digital output
100.030	FC interface (fiber optic), for connecting DAS-303 (see storage systems), only ex factory
100.090	SATA interface, for connecting DAS-4 Eco (see storage systems), only ex factory
200.210.1	RS485 kit, for the direct control of Dallmeier PTZ dome cameras at the recorder, -DCCP activation included- (only ex factory)
702.043	Slimline DVD+RW drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.033.3	DNI-1 Scheidt & Bachmann cash desk
100.034	DNI-1 basis set, for the connection of an external data interface (such as ATM, access control, cash register, etc.), More information can be found in our Partner Forum under "Documentations".
100.035	DNI-1/E expansion module
100.037.3	DNI-1 Huth cash desk basis set, for connecting a Huth central computer (for up to 4 cashier work stations) incl. tranmitter
100.038	DNI-1 Huth expansion module
100.050	DNI-TA24, for connecting the TA-24 MS keyboard
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

Activations

100.101.FS	ATM activity survey
100.102.FS	D/N-RC - Day/Night Remote Control
100.109.FS	SmartFinder advance
100.118.FS	Anbindung Kassen: Daten können von AWEK-Kassensystemen über LAN empfangen werden. Die Daten werden gespeichert und können bei der Bildsuche (erweiterte Suche) verwendet werden.
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.120FS	Dual Stream
200.122FS	PRemote advance
200.130	SNMP (SI-package SYS-Watch)
200.202FS.4	DVR4 EBÜS standard image transmission
200.234FS	VNC server
240.003.16.1	Hybrid activation: 16 analogue / 1 IP based video channel (SD/HD)
240.003.16.2	Hybrid activation: 16 analogue / 2 IP based video channels (SD/HD)
240.003.16.4	Hybrid activation: 16 analogue / 4 IP based video channels (SD/HD)
240.003.16.8	Hybrid activation: 16 analogue / 8 IP based video channels (SD/HD)
240.003.8.1	Hybrid activation: 8 analogue / 1 IP based video channel (SD/HD)
240.003.8.16	Hybrid activation: 8 analogue / 16 IP based video channels (SD/HD)
240.003.8.2	Hybrid activation: 8 analogue / 2 IP based video channels (SD/HD)
240.003.8.4	Hybrid activation: 8 analogue / 4 IP based video channels (SD/HD)
240.003.8.8	Hybrid activation: 8 analogue / 8 IP based video channels (SD/HD)

Hybrid

DMS Series

In Memory of Leonardo

Patented finesse

Removable BNC connection panel

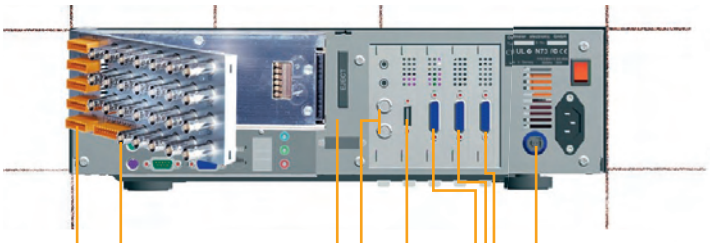
A very special technical highlight is the removable BNC connection panel at the back of the recorders. This patented, proprietary development of the Dallmeier engineers is the result of years of practical experience. Maintenance work and upgrades at the recorders such as the integration of additional drives can easily, quickly and conveniently be carried out. This is because camera connections, alarm inputs and other connections do not have to be disconnected. The BNC terminal board is simply detached from the recorder and reattached after the work has been done.

Advantages:

- Conveniently removable BNC terminal board
- High service- and maintenance-friendliness (e.g. no accidental mix-up of cameras and relays)
- Significant time saving during maintenance and upgrade work
- Advantages with the installation and extension of the system
- Cost savings due to high longevity

Dallmeier patent

The trade mark rights of this unique concept have already been patented in several countries, including the United States. (No. US 7,001,219 B2)



Certified security hardware concept

VdS

DIN
DIN EN 50130-4

Independent institutions confirm highest security standards

Truly reliable security products cannot be realised using customary PC components.

Surveillance systems, which include standard PC parts are not suitable for security applications. Dallmeier has therefore used its years of experience in developing components which provide for a stable and reliable operation for a long working life.

Fine coaxial cable

- Individually shielded high-tech coaxial cable (highest signal quality)
- No interference-prone ribbon cables

Compression boards

- State-of-the-art H.264 compression technology
- Encoder/decoder
- Audio for every channel
- Analogue outputs with split function

Power supply unit

- 200ms grid failure jumper
- Voltage surge protection
- Voltage control
- Fanless operation makes for longer working life
- Autorange for 95-264V
- VdS compliant

Air input filter

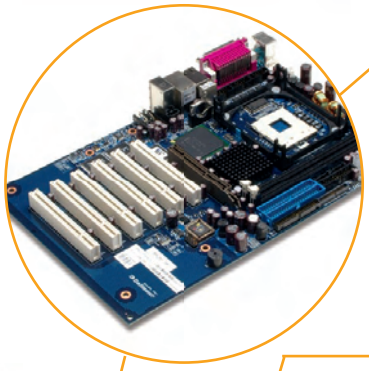
- Front-side filter cover for easy and convenient filter exchange
- Can be exchanged by the customer, no tools required
- Regular filter exchange significantly increases working life of the device
- Fan is completely decoupled from the chassis (rubber boot), hence no vibration transfer

LCD display

- Status report of important service messages on LCD display (e.g. fan speed frequency, internal/external temperature, sabotage alarms)
- Front-side USB connection, easily accessible for external media for export of image data

DMS Series

In Memory of Leonardo



Motherboard

- Industry board
- Real-time clock
- Long working life
- Guaranteed long-term availability (if service is needed)

I/O Board

- BNC terminal 24 board
- Extremely high interference resistance
- Specially manufactured boards for higher EMC requirements

LINUX-OS on Flash ROM

- OS separated from recorded data
- HD exchange requires no reinstallation of OS

Sabotage protection

- Sabotage contact according to VdS guidelines
- Closed current-monitored sabotage contacts
- Double secured sabotage protection through sabotage and cover contact
- Backpanel sabotage protection through VdS kit

Temperature sensor

- Internal temperature sensor: control of internal temperature
- External temperature sensor: control of admissible ambient temperature (e.g. in 19" rack, server room etc.)
- Output of measured temperature on LCD display

UTC control

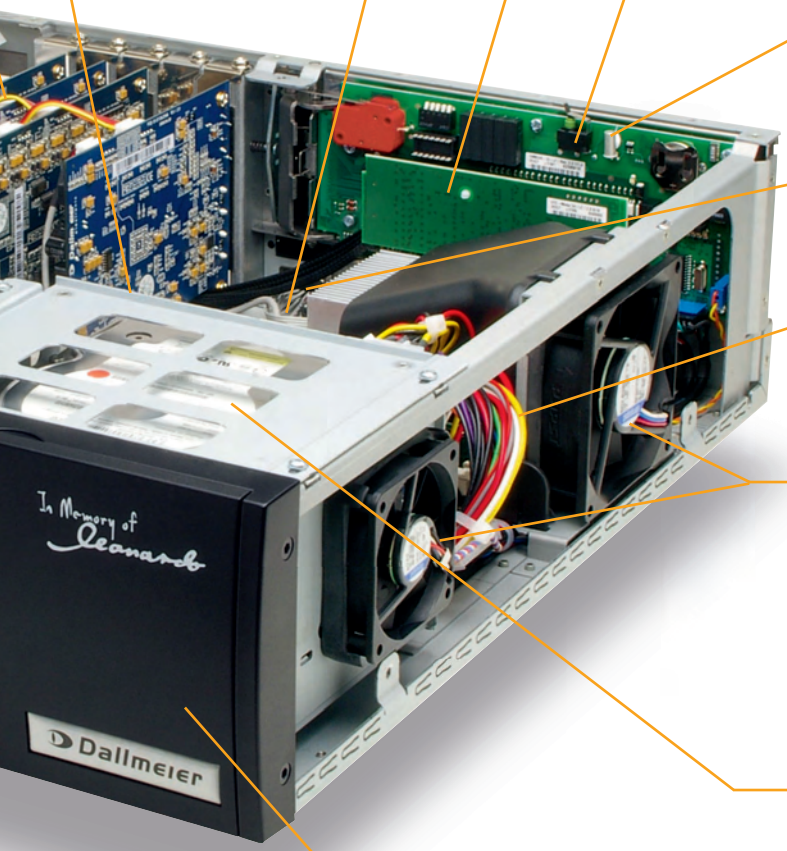
- Configuration of Dallmeier cameras via coaxial cable (up the coax)

Round cables

- SATA connection for latest HDD technology
- High-quality cable technology according to latest standards
- Additional benefits through improved air circulation within the device

Ventilation system

- DFC (Dynamic Fan Control) – functionally separated ventilation control and monitoring
- Three high-quality and low-noise Papst fans
- All fans are additionally mounted on rubber boots
- 55dB is in line with ISO 9296 norm for noise measurement
- Hard disk fan prevents heat accumulation between the hard disks and ensures optimal ventilation of hard disks



Hard disks

- Dallmeier approved and authorised hard disks
- Maximum reliability and stability
- Vibrations through vibrancy effect are prevented by hard disk rubber boots

Slide-in units

- Folding visual cover
- Fast and convenient access
- Each slide-in unit lockable
- Highly service-friendly

H.264 recorders

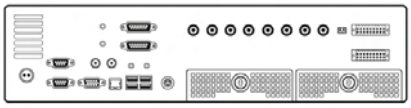
High-performance H.264 compression

The Dallmeier DLS series comprises high-performance stand-alone H.264 audio and video recorders with up to 16 channels. The DIN EN 50130-4 certified recorders allow for real-time recording of all channels. Apart from the standard version, a Plus variant is also available. The latter is optimised for recording with a high frame rate at high resolution.

As in many other sectors the requirements on standardised procedures or the compression of images have risen significantly. This is true for the quality of pictures as well as the flexibility of the compression procedure itself. With H.264 a new standard for video compression has been created, basically comparable with MPEG and fulfilling high requirements.

The DLS series offers a high performance capability and reliability, which are also demonstrated by the use of the H.264 codec standard. The H.264 standard combines unsurpassed image quality with particularly high data compression (reduction of the bit rate by 37 per cent compared to MPEG-4 and by 64 per cent compared to MPEG-2). The advantages are cost reduction, lower demand for storage capacity, less network load and longer recording times. As one of the first manufacturers of digital video recorders Dallmeier has integrated the H.264 algorithm into its product development for the CCTV/IP area and continues to prove its innovative strength and technological leadership

DLS 4



The DLS 4 is a stand-alone H.264 audio and video recorder with up to 8 analogue channels. The basic version with 4 analogue channels can be expanded in blocks of 2 analogue channels via activation codes up to a maximum of 8 analogue channels.

- Up to 8 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 1.5 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 12 fps at CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones and motion detection
- Integrated UTC compatibility
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

Variants

004.010.000.004	DLS 4 without HDDs 4x analogue video channels Please note that HDDs must be ordered separately!

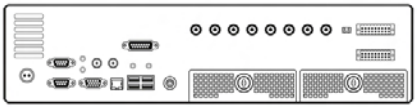
Options

000.120	19" bracket, for a 2HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.338	Filter pad, 2HU (5 pieces)
702.044	DVD+RW Drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

004.010.2.FS	Activation of additional 2 analogue channels (in addition to 4 activated channels)
004.101.2.FS	Activation of additional 2 analogue channels (in addition to 6 activated channels)
100.102.FS	D/N-RC - Day/Night Remote Control
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.202FS.4	DVR4 EBÜS standard image transmission
200.210.FS	DCCP -Dallmeier Camera Control Protocol-
200.234FS	VNC server

DLS 8



The DLS 8 is a stand-alone H.264 audio and video recorder with up to 8 analogue channels.

- Up to 8 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 1.5 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 12 fps at CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones and motion detection
- Integrated UTC compatibility
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

Variants

008.000.000.008	DLS 8 without HDDs 8x analogue video channels Please note that HDDs must be ordered separately!

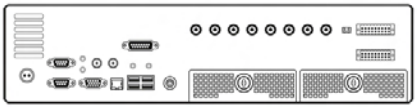
Options

000.120	19" bracket, for a 2HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.338	Filter pad, 2HU (5 pieces)
702.044	DVD+RW Drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

100.102.FS	D/N-RC - Day/Night Remote Control
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.202FS.4	DVR4 EBÜS standard image transmission
200.210.FS	DCCP -Dallmeier Camera Control Protocol-
200.234FS	VNC server

DLS 8 Plus



The DLS 8 Plus is a stand-alone H.264 audio and video recorder with up to 8 analogue channels. Furthermore, the DLS 8 Plus is optimised for recording with high frame rates at high resolution.

- Up to 8 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 2 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 12 fps at 4CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones and motion detection
- Integrated UTC compatibility
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

Variants

008.001.000.008	DLS 8 Plus without HDDs 8x analogue video channels Please note that HDDs must be ordered separately!

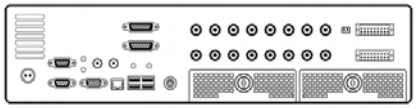
Options

000.120	19" bracket, for a 2HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.338	Filter pad, 2HU (5 pieces)
702.044	DVD+RW Drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

100.102.FS	D/N-RC - Day/Night Remote Control
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.202FS.4	DVR4 EBÜS standard image transmission
200.210.FS	DCCP -Dallmeier Camera Control Protocol-
200.234FS	VNC server

DLS 16



The DLS 16 is a stand-alone H.264 audio and video recorder with up to 16 analogue channels.

- Up to 16 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 1.5 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 12 fps at CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones and motion detection
- Integrated UTC compatibility
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

Variants

016.000.000.016	DLS 16 without HDDs 16x analogue video channels Please note that HDDs must be ordered separately!

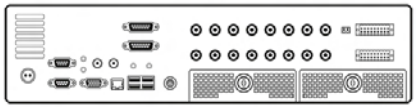
Options

000.120	19" bracket, for a 2HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.338	Filter pad, 2HU (5 pieces)
702.044	DVD+RW Drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

100.102.FS	D/N-RC - Day/Night Remote Control
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.202FS.4	DVR4 EBÜS standard image transmission
200.210.FS	DCCP -Dallmeier Camera Control Protocol-
200.234FS	VNC server

DLS 16 Plus



The DLS 16 Plus is a stand-alone H.264 audio and video recorder with up to 16 analogue channels. Furthermore, the DLS 16 Plus is optimised for recording with high frame rates at high resolution.

- Up to 16 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 2 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 12 fps at 4CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones and motion detection
- Integrated UTC compatibility
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- DIN EN 50130-4 compliant

Variants

016.001.000.016	DLS 16 Plus without HDDs 16x analogue video channels Please note that HDDs must be ordered separately!

Options

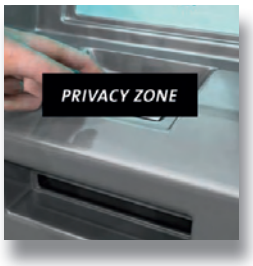
000.120	19" bracket, for a 2HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.338	Filter pad, 2HU (5 pieces)
702.044	DVD+RW Drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

100.102.FS	D/N-RC - Day/Night Remote Control
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.202FS.4	DVR4 EBÜS standard image transmission
200.210.FS	DCCP -Dallmeier Camera Control Protocol-
200.234FS	VNC server

Bank recorders

Secure bank transactions –
Dallmeier bank recorders with UVV-Kassen certification

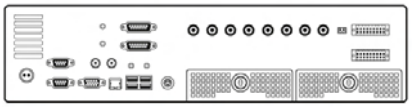


The Dallmeier recorder range "bank" comprises compact digital recording systems whose certifications and specific system parameters as well as the specifically designed software make them ideal for bank applications. Like all Dallmeier systems, the bank recorders are highly stable and reliable devices. What characterises them in particular are the outstanding image quality and high operator convenience.

All recorders come with integrated UTC capability, which allows for the convenient configuration of Dallmeier cameras via the recorder interface, even during ongoing business. Naturally, this function is also available in remote operation via network. Additionally, the recorder configuration offers the possibility to insert so-called privacy zones within the picture, i.e. to mask out certain sections or black them out respectively (for example number pads for PINs).

A special highlight of the bank recorders is the so-called ATM activity survey. Thereby, the recorder regularly checks if transactions take place at the ATM. The survey intervals can be set individually. If no transactions take place during the defined interval the recorder issues a warning. This is done so as to prevent an accidental recording failure and to make sure that it does not go unnoticed if it happens. Such failures frequently occur due to changes of ATM protocols. The ATM activity survey ensures that in case of need no important data is missing.

DLS 4 Bank



The DLS 4 Bank is a stand-alone H.264 audio and video recorder with up to 8 analogue channels. The basic version with 4 analogue channels can be expanded by 2/4 analogue channels with an activation code. Furthermore, the DLS 4 Bank is optimised for use in banks due to its special system parameters and certifications.

- Up to 8 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 1.5 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 12 fps at CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones, motion detection and SEDOR® camera sabotage protection
- Bank browser and integrated UTC compatibility
- Integrated VNC server for picture transfer via network
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- UVV-Kassen certified and DIN EN 50130-4 compliant

Variants

004.011.000.004	DLS 4 Bank without HDDs 4x analogue video channels Please note that HDDs must be ordered separately!

Options

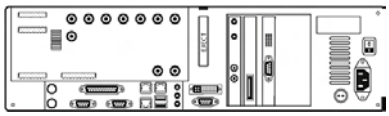
000.120	19" bracket, for a 2HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.338	Filter pad, 2HU (5 pieces)
702.044	DVD+RW Drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.034	DNI-1 basis set, for the connection of an external data interface (such as ATM, access control, cash register, etc.), More information can be found in our Partner Forum under "Documentations".
100.035	DNI-1/E expansion module
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

004.010.2.FS	Activation of additional 2 analogue channels (in addition to 4 activated channels)
004.101.2.FS	Activation of additional 2 analogue channels (in addition to 6 activated channels)
100.101.FS	ATM activity survey
100.102.FS	D/N-RC - Day/Night Remote Control
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.130	SNMP (SI-package SYS-Watch)
200.202FS.4	DVR4 EBÜS standard image transmission
200.210.FS	DCCP -Dallmeier Camera Control Protocol-

Bank

DMS 80 Bank



The DMS 80 Bank is a stand-alone H.264 audio and video recorder with up to 8 analogue channels. Furthermore, the DMS 80 Bank is optimised for use in banks due to its special system parameters and certifications.

- Up to 8 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording and streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 1.5 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 12 fps at CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones, motion detection and SEDOR® camera sabotage protection
- Bank browser and integrated UTC compatibility
- Integrated ATM activity survey
- Integrated VNC server for picture transfer via network
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- UVV-Kassen certified and DIN EN 50130-4 compliant

Variants

080.001.000.008	DMS 80 Bank without HDDs 8x analogue video channels Please note that HDDs must be ordered separately!

Options

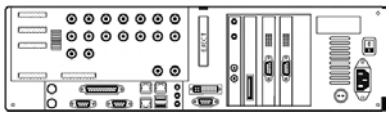
000.194	19" bracket, for a 3HU single device
180.900	VdS installation kit, incl. mounting kit and protective cover for the connections
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
010.240	DVI digital output
200.210.1	RS485 kit, for the direct control of Dallmeier PTZ dome cameras at the recorder, -DCCP activation included- (only ex factory)
702.043	Slimline DVD+RW drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.034	DNI-1 basis set, for the connection of an external data interface (such as ATM, access control, cash register, etc.), More information can be found in our Partner Forum under "Documentations".
100.035	DNI-1/E expansion module
100.050	DNI-TA24, for connecting the TA-24 MS keyboard
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

100.102.FS	D/N-RC - Day/Night Remote Control
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.130	SNMP (SI-package SYS-Watch)
200.202FS.4	DVR4 EBÜS standard image transmission

Bank

DMS 160 Bank



The DMS 160 Bank is a stand-alone H.264 audio and video recorder with up to 16 analogue channels. Furthermore, the DMS 160 Bank is optimised for use in banks due to its special system parameters and certifications.

- Up to 16 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 1.5 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 12 fps at CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones, motion detection and SEDOR® camera sabotage protection
- Bank browser and integrated UTC compatibility
- Integrated ATM activity survey
- Integrated VNC server for picture transfer via network
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- UVV-Kassen certified and DIN EN 50130-4 compliant

Variants

160.001.000.016	DMS 160 Bank without HDDs 16x analogue video channels Please note that HDDs must be ordered separately!

Options

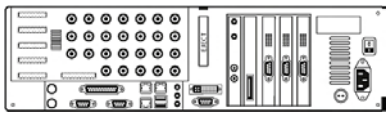
000.194	19" bracket, for a 3HU single device
180.900	VdS installation kit, incl. mounting kit and protective cover for the connections
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
010.240	DVI digital output
200.210.1	RS485 kit, for the direct control of Dallmeier PTZ dome cameras at the recorder, -DCCP activation included- (only ex factory)
702.043	Slimline DVD+RW drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.034	DNI-1 basis set, for the connection of an external data interface (such as ATM, access control, cash register, etc.), More information can be found in our Partner Forum under "Documentations".
100.035	DNI-1/E expansion module
100.050	DNI-TA24, for connecting the TA-24 MS keyboard
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

100.102.FS	D/N-RC - Day/Night Remote Control
200.116FS	Audio for all channels
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.122FS	PRemote advance
200.130	SNMP (SI-package SYS-Watch)
200.202FS.4	DVR4 EBÜS standard image transmission

Bank

DMS 240 Bank



The DMS 240 Bank is a stand-alone H.264 audio and video recorder with up to 24 analogue channels. The basic version with 8 analogue channels can be expanded by 8 or 16 analogue channels respectively. Furthermore, the DMS 240 Bank is optimised for use in banks due to its special system parameters and certifications.

- Up to 24 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 2 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 25 fps at CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones, motion detection and SEDOR® camera sabotage protection
- Bank browser and integrated UTC compatibility
- Integrated ATM activity survey
- Integrated VNC server for picture tranfer via network
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- UVV-Kassen certified and DIN EN 50130-4 compliant

Variants

240.001.000.008	DMS 240 Bank without HDDs 8x analogue video channels Please note that HDDs must be ordered separately!
240.001.000.016	DMS 240 Bank without HDDs 16x analogue video channels Please note that HDDs must be ordered separately!
240.001.000.024	DMS 240 Bank without HDDs 24x analogue video channels Please note that HDDs must be ordered separately!

Options

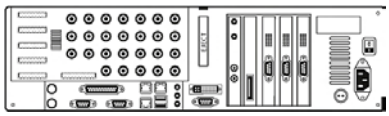
000.194	19" bracket, for a 3HU single device
180.900	VdS installation kit, incl. mounting kit and protective cover for the connections
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
010.240	DVI digital output
200.210.1	RS485 kit, for the direct control of Dallmeier PTZ dome cameras at the recorder, -DCCP activation included- (only ex factory)
702.043	Slimline DVD+RW drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.034	DNI-1 basis set, for the connection of an external data interface (such as ATM, access control, cash register, etc.), More information can be found in our Partner Forum under "Documentations".
100.035	DNI-1/E expansion module
100.050	DNI-TA24, for connecting the TA-24 MS keyboard
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

100.102.FS	D/N-RC - Day/Night Remote Control
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.120FS	Dual Stream
200.122FS	PRemote advance
200.130	SNMP (SI-package SYS-Watch)
200.202FS.4	DVR4 EBÜS standard image transmission

Bank

DMS 240 HSR Bank



The DMS 240 HSR Bank is a stand-alone H.264 audio and video recorder with up to 24 analogue channels. The basic version with 8 analogue channels can be expanded by 8 or 16 analogue channels respectively. The DMS 240 HSR Bank (High Speed, High Resolution) is optimised for recording with high frame rates at high resolution. Furthermore, the DMS 240 HSR Bank is optimised for use in banks due to its special system parameters and certifications.

- Up to 24 analogue video channels
- PentaplexPlus functionality: Simultaneous real-time recording, streaming, live display, playback and remote access
- H.264 video compression and G.722 audio compression
- Bit rate up to 2 Mbps
- Resolution up to 4CIF
- Frame rate per channel up to 25 fps at 4CIF
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated management software PView 7 Light
- Integrated SmartFinder, privacy zones, motion detection and SEDOR® camera sabotage protection
- Bank browser and integrated UTC compatibility
- Integrated ATM activity survey
- Integrated VNC server for picture transfer via network
- Exchangeable hard disks: up to 2x 3,5“ HDDs (optional)
- Easy-Change functionality in case of HDD failure
- Linux operating system on Flash memory
- UVV-Kassen certified and DIN EN 50130-4 compliant

Variants

240.002.000.008	DMS 240 HSR Bank without HDD 8x analogue video channels Please note that HDDs must be ordered separately!
240.002.000.016	DMS 240 HSR Bank without HDD 16x analogue video channels Please note that HDDs must be ordered separately!
240.002.000.024	DMS 240 HSR Bank without HDD 24x analogue video channels Please note that HDDs must be ordered separately!

Options

000.194	19" bracket, for a 3HU single device
180.900	VdS installation kit, incl. mounting kit and protective cover for the connections
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
010.240	DVI digital output
200.210.1	RS485 kit, for the direct control of Dallmeier PTZ dome cameras at the recorder, -DCCP activation included- (only ex factory)
702.043	Slimline DVD+RW drive
124.002.01	TA-24 MS multi screen, for using CVBS monitors incl. split switching, More information can be found in our Partner Forum under "Documentations".
129.303	VSC-1 (Video System Controller), for the control of cameras at the recorder
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.034	DNI-1 basis set, for the connection of an external data interface (such as ATM, access control, cash register, etc.), More information can be found in our Partner Forum under "Documentations".
100.035	DNI-1/E expansion module
100.050	DNI-TA24, for connecting the TA-24 MS keyboard
100.039	Power supply unit for DNI interfaces and TA-24
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval

Activations

100.102.FS	D/N-RC - Day/Night Remote Control
200.117FS	PRemote PDA, PRemote advance required
200.118FS	PView / PRemote live split recording
200.119FS	Voice Talk - bidirectional audio, PRemote advance required
200.120FS	Dual Stream
200.122FS	PRemote advance
200.130	SNMP (SI-package SYS-Watch)
200.202FS.4	DVR4 EBÜS standard image transmission

Overview hybrid recorders

DMS 80

DMS 160

DMS 240

DMS 240 HSR

	DMS 80	DMS 160	DMS 240	DMS 240 HSR
Max. video channels	8x analogue and 16x IP based channels	16x analogue and 8x IP based channels	24x analogue and 16x IP based channels (max. 24 channels in total)	24x analogue and 16x IP based channels (max. 24 channels in total)
Supported cameras	Analogue and IP cameras of Dallmeier and of third party, incl. megapixel and high-definition cameras	Analogue and IP cameras of Dallmeier and of third party incl. megapixel and high-definition cameras	Analogue and IP cameras of Dallmeier and of third party, incl. megapixel and high-definition cameras	Analogue cameras of Dallmeier and of third party, incl. megapixel and high-definition cameras
Video/audio compression	H.264, MPEG-4, MJPEG / G.722.1, MPEG-1 Layer 2	H.264, MPEG-4, MJPEG / G.722.1, MPEG-1 Layer 2	H.264, MPEG-4, MJPEG / G.722.1, MPEG-1 Layer 2	H.264, MPEG-4, MJPEG / G.722.1, MPEG-1 Layer 2
Operating mode	PentaplexPlus: recording, streaming, live display, playback, remote access	PentaplexPlus: recording, streaming, live display, playback, remote access	PentaplexPlus: recording, streaming, live display, playback, remote access	PentaplexPlus: recording, streaming, live display, playback, remote access
Split display	1, 4, 9, 13, 16, 25 (IP cameras only via PView)	1, 4, 9, 13, 16, 25 (IP cameras only via PView)	1, 4, 9, 13, 16, 25 (IP cameras only via PView)	1, 4, 9, 13, 16, 25 (IP cameras only via PView)
Display resolution	4CIF, DCIF, 2CIF, CIF, QCIF (analogue) D1, 4CIF, Half D1, 2CIF, CIF, QCIF (IP)	4CIF, DCIF, 2CIF, CIF, QCIF (analogue) D1, 4CIF, Half D1, 2CIF, CIF, QCIF (IP)	4CIF, DCIF, 2CIF, CIF, QCIF (analogue) D1, 4CIF, Half D1, 2CIF, CIF, QCIF (IP)	4CIF, DCIF, 2CIF, CIF, QCIF (analogue) D1, 4CIF, Half D1, 2CIF, CIF, QCIF (IP)
Recording resolution	SD, HD (720p, 1080i, 1080p), up to 8MP	SD, HD (720p, 1080i, 1080p), up to 8MP	SD, HD (720p, 1080i, 1080p), up to 8MP	SD, HD (720p, 1080i, 1080p), up to 8MP
Recording mode	Permanent, motion, contact, variable recording mode (VRM)	Permanent, motion, contact, timer, variable recording mode (VRM)	Permanent, motion, contact, timer, variable recording mode (VRM)	Permanent, motion, contact, timer, variable recording mode (VRM)
Frame rate per analogue channel	Up to 3 fps at 4CIF Up to 4 fps at DCIF Up to 5 fps at 2CIF Up to 12 fps at CIF Up to 25 fps at QCIF	Up to 3 fps at 4CIF Up to 4 fps at DCIF Up to 5 fps at 2CIF Up to 12 fps at CIF Up to 25 fps at QCIF	Up to 12 fps at 4CIF Up to 16 fps at DCIF Up to 16 fps at 2CIF Up to 25 fps at CIF Up to 25 fps at QCIF	Up to 25 fps at 4CIF Up to 25 fps at DCIF Up to 25 fps at 2CIF Up to 25 fps at CIF Up to 25 fps at QCIF
Frame rate per IP based channel	6.25 / 12.5 / 25 fps at D1, 4CIF, Half D1, 2CIF, CIF, QCIF	6.25 / 12.5 / 25 fps at D1, 4CIF, Half D1, 2CIF, CIF, QCIF	6.25 / 12.5 / 25 fps at D1, 4CIF, Half D1, 2CIF, CIF, QCIF	6.25 / 12.5 / 25 fps at D1, 4CIF, Half D1, 2CIF, CIF, QCIF
Bit rate per analogue channel	Up to 1.5 Mbps	Up to 1.5 Mbps	Up to 2 Mbps	Up to 2 Mbps
Bit rate with up to 8 IP channels	Up to 4 Mbps	Up to 4 Mbps	Up to 4 Mbps	Up to 4 Mbps
Bit rate with up to 16 IP channels	Up to 3 Mbps	-	Up to 3 Mbps	Up to 3 Mbps
Integrated / optional functions				
Management software	PView 7 Light	PView 7 Light	PView 7 Light	PView 7 Light
Configuration software	DMS NetConfig	DMS NetConfig	DMS NetConfig	DMS NetConfig
UTC control	Integrated	Integrated	Integrated	Integrated
Privacy Zones	Integrated	Integrated	Integrated	Integrated
Motion detection	Integrated	Integrated	Integrated	integrated
SEDOR® camera sabotage protection	Optional activation	Optional activation	Integrated	Integrated
Dual Stream	-	-	Optional activation	Optional activation
SmartFinder	Integrated	Integrated	Integrated	Integrated
Audio for all channels	Optional activation	Optional activation	Integrated	Integrated
Track modes	Standard, automatic, manual	Standard, automatic, manual	Standard, automatic, manual	Standard, automatic, manual
D/N-RC (Day/Night Remote Control)	Optional activation	Optional activation	Optional activation	Optional activation
SmartFinder advance	Optional activation	Optional activation	Optional activation	Optional activation
Activation additional video channels	Up to 16 IP based video channels	Up to 8 IP based video channels	Up to 16 analogue and 16 IP based video channels (in total 24 channels)	Up to 16 analogue and 16 IP based video channels (in total 24 channels)
Interfaces				
Camera inputs	8x CVBS/BNC, with loop-through	16x CVBS/BNC, with loop-through	24x CVBS/BNC, with loop-through	24x CVBS/BNC, with loop-through
Video outputs	4x CVBS/BNC with loop-through, 1x VGA, 1x DVI-I (optional)	4x CVBS/BNC with loop-through, 1x VGA, 1x DVI-I (optional)	4x CVBS/BNC with loop-through, 1x VGA, 1x DVI-I (optional)	4x CVBS/BNC, 1x VGA, 1x DVI-I (optional)
Aux-Line IN/Mic IN/Audio OUT	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack
Audio inputs	8x	16x	24x	24x
Ethernet	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN / relay OUT	14x, each 4 functions / 5x, configurable as NO or NC	22x, each 4 functions / 5x, configurable as NO or NC	30x, each 4 functions / 5x, configurable as NO or NC	30x, each 4 functions / 5x, configurable as NO or NC
Serial / parallel / USB / PS/2	2x RS232, 1x RS485 (optional)/ 1x IEEE 1284 / 3x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 (optional) / 1x IEEE 1284 / 3x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 (optional) / 1x IEEE 1284 / 3x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 (optional) / 1x IEEE 1284 / 3x USB 2.0 / Mouse, keyboard
Further specifications				
Exchangeable hard disks	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)
Max. storage capacity	Up to 4 TB	Up to 4 TB	Up to 4 TB	Up to 4 TB
Archiving medium	SlimLine DVD-RW drive (optiona)	SlimLine DVD-RW drive (optional)	SlimLine DVD-RW drive (optional)	SlimLine DVD-RW drive (optional)
Voltage supply	110/230V AC +/- 10% (50/60 Hz)	110/230V AC +/- 10% (50/60 Hz)	110/230V AC +/- 10% (50/60 Hz)	110/230V AC +/- 10% (50/60 Hz)
Power consumption	Max. 130 W	Max. 130 W	Max. 130 W	Max. 130 W
Heat power	Max. 444 BTU/h	Max. 444 BTU/h	Max. 444 BTU/h	Max. 444 BTU/h
Dimensions (W x H x D)	Approx. 425 x 133 (3HU) x 445 mm	Approx. 425 x 133 (3HU) x 445 mm	Approx. 425 x 133 (3HU) x 445 mm	Approx. 425 x 133 (3HU) x 445 mm
Operating temperature	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended
Humidity	5 - 70% RH non-condensing	5 - 70% RH non-condensing	5 - 70% RH non-condensing	5 - 70% RH non-condensing
Atmospheric load	Dust-free	Dust-free	Dust-free	Dust-free
Weight	10 - 12 kg	10 - 12 kg	10 - 12 kg	10 - 12 kg
Fan	3x with automatic speed adaptation	3x with automatic speed adaptation	3x with automatic speed adaptation	3x with automatic speed adaptation
Voltage output	12V DC +/- 5%	12V DC +/- 5%	12V DC +/- 5%	12V DC +/- 5%
Operating system	Linux	Linux	Linux	Linux
Languages	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)
Approvals/certifications	CE, FCC, UL, ACA, CB, Kalagate, DIN EN 50130-4	CE, FCC, UL, ACA, CB, Kalagate, DIN EN 50130-4	CE, FCC, UL, ACA, CB, Kalagate, DIN EN 50130-4	CE, FCC, UL, ACA, CB, Kalagate, DIN EN 50130-4
VdS certification	Only if ordering VdS-Mounting-Kit	Only if ordering VdS-Mounting-Kit	Only if ordering VdS-Mounting-Kit	Only if ordering VdS-Mounting-Kit

Overview H.264 recorders

DLS 4

DLS 8

DLS 8 Plus

DLS 16

Standard / max. video channels	4x / 8x analogue video channels	8x analogue video channels	8x analogue video channels	16x analogue video channels
Supported cameras	Dallmeier and third party analogue cameras	Dallmeier and third party analogue cameras	Dallmeier and third party analogue cameras	Dallmeier and third party analogue cameras
Operating mode	PentaplexPlus: recording, streaming, live display, playback, remote access	PentaplexPlus: recording, streaming, live display, playback, remote access	PentaplexPlus: recording, streaming, live display, playback, remote access	PentaplexPlus: recording, streaming, live display, playback, remote access
Recording mode	Permanent, motion, contact, timer	Permanent, motion, contact, timer	Permanent, motion, contact, timer	Permanent, motion, contact, timer
Split display	1, 4, 9	1, 4, 9	1, 4, 9	1, 4, 9, 13, 16
Video/audio compression	H.264 / G.722.1	H.264 / G.722.1	H.264 / G.722.1	H.264 / G.722.1
Display resolution	4CIF, DCIF, 2CIF, CIF, QCIF	4CIF, DCIF, 2CIF, CIF, QCIF	4CIF, DCIF, 2CIF, CIF, QCIF	4CIF, DCIF, 2CIF, CIF, QCIF
Frame rate per analogue channel	Up to 3 fps at 4CIF Up to 4 fps at DCIF Up to 5 fps at 2CIF Up to 12 fps at CIF Up to 25 fps at QCIF	Up to 3 fps at 4CIF Up to 4 fps at DCIF Up to 5 fps at 2CIF Up to 12 fps at CIF Up to 25 fps at QCIF	Up to 12 fps at 4CIF Up to 12 fps at DCIF Up to 16 fps at 2CIF Up to 25 fps at CIF Up to 25 fps at CIF	Up to 3 fps at 4CIF Up to 4 fps at DCIF Up to 5 fps at 2CIF Up to 12 fps at CIF Up to 25 fps at QCIF
Bit rate per analogue channel	Up to 1.5 Mbps	Up to 1.5 Mbps	Up to 2 Mbps	Up to 1.5 Mbps
Integrated / optional functions				
Management software	PView 7 Light	PView 7 Light	PView 7 Light	PView 7 Light
Configuration software	DMS NetConfig	DMS NetConfig	DMS NetConfig	DMS NetConfig
UTC compatibility	Integrated	Integrated	Integrated	Integrated
Privacy Zones	Integrated	Integrated	Integrated	Integrated
Motion detection	Integrated	Integrated	Integrated	Integrated
SmartFinder	Integrated	Integrated	Integrated	Integrated
Track modes	Standard, manual, automatic	Standard, manual, automatic	Standard, manual, automatic	Standard, manual, automatic
Audio for all channels	Optional activation	Optional activation	Optional activation	Optional activation
D/N-RC (Day/Night Remote Control)	Optional activation	Optional activation	Optional activation	Optional activation
Activation of 2 further channels	Up to 2x 2 analogue Video channels (max. 8 video channels)	-	-	-
Interfaces				
Camera inputs	8x CVBS/BNC, with loop-through	8x CVBS/BNC, with loop-through	8x CVBS/BNC, with loop-through	16x CVBS/BNC, with loop-through
Video outputs	1x VGA, 2x CVBS/BNC	1x VGA, 2x CVBS/BNC	1x VGA, 2x CVBS/BNC	1x VGA, 2x CVBS/BNC
Audio inputs	8x	8x	8x	16x
Aux-Line IN/Mic IN/Audio OUT	1x 3.5 mm phone jack / - / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / - / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / - / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / - / 1x 3.5 mm phone jack
Ethernet	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN / Relay OUT	14x, each 4 functions / 5x, as NO or NC	14x, each 4 functions / 5x, configurable as NO or NC	14x, each 4 functions / 5x, configurable as NO or NC	22x, each 4 functions / 5x, configurable as NO or NC
Serial / USB / PS/2	2x RS 232, 1x RS 485 / 5x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 / 5x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 / 5x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 / 5x USB 2.0 / Mouse, keyboard
Further specifications				
Exchangeable hard disks	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)
Max. storage capacity	Up to 4 TB	Up to 4 TB	Up to 4 TB	Up to 4 TB
Archiving medium	DVD-RW (optional)	DVD-RW (optional)	DVD-RW (optional)	DVD-RW (optional)
Video norm	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)
Voltage supply	12V DC +/- 5%	12V DC +/- 5%	12V DC +/- 5%	12V DC +/- 5%
Power consumption	Max. 70 W	Max. 70 W	Max. 70 W	Max. 70 W
Heating power	Max. 239 BTU/h	Max. 239 BTU/h	Max. 239 BTU/h	Max. 239 BTU/h
Dimensions (W x H x D)	425 x 88 (2HU) x 384 mm	425 x 88 (2HU) x 384 mm	425 x 88 (2HU) x 384 mm	425 x 88 (2HU) x 384 mm
Operating temperature	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended
Humidity	5 - 70% RH non-condesing	5 - 70% RH non-condensing	5 - 70% RH non condensing	5 - 70% RH non-condensing
Atmospheric load	Dust-free	Dust-free	Dust-free	Dust-free
Weight	9 - 10 kg	9 - 10 kg	9 - 10 kg	9 - 10 kg
Fan	2x with automatic speed adaptation	2x with automatic speed adaptation	2x with automatic speed adaptation	2x with automatic speed adaptation
Operating system	Linux	Linux	Linux	Linux
Languages	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)
Approvals/certifications	CE, FCC, UL, ACA, UL, CB, DIN EN 50130-4	CE, FCC, UL, ACA, UL, CB, DIN EN 50130-4	CE, FCC, UL, ACA, UL, CB, DIN EN 50130-4	CE, FCC, UL, ACA, UL, CB, DIN EN 50130-4

Overview H.264 recorders

DLS 16 Plus

Standard / max. video channels	16x analogue video channels
Supported cameras	Dallmeier and third party analogue cameras
Operating mode	PentaplexPlus: recording, streaming, live display, playback, remote access
Recording mode	Permanent, motion, contact, timer
Split display	1, 4, 9, 13, 16
Video/audio compression	H.264 / G.722.1
Display resolution	4CIF, DCIF, 2CIF, CIF, QCIF
Frame rate per analogue channel	Up to 12 fps at 4CIF Up to 12 fps at DCIF Up to 16 fps at 2CIF Up to 25 fps at CIF Up to 25 fps at QCIF
Bit rate per analogue channel	Up to 2 Mbps
Integrated / optional functions	
Management software	PView 7 Light
Configuration software	DMS NetConfig
UTC compatibility	Integrated
Privacy Zones	Integrated
Motion detection	Integrated
SmartFinder	Integrated
Track modes	Standard, manual, automatic
Audio for all channels	Optional activation
D/N-RC (Day/Night Remote Control)	Optional activation
Activation of 2 further channels	-
Interfaces	
Camera inputs	16x CVBS/BNC, with loop-through
Video outputs	1x VGA, 2x CVBS/BNC
Audio inputs	16x
Aux-Line IN/Mic IN/Audio OUT	1x 3.5 mm phone jack / - / 1x 3.5 mm phone jack
Ethernet	1x RJ45, 10/100/1000 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN / Relay OUT	22x, each 4 functions / 5x, configurable as NO or NC
Serial / USB / PS/2	2x RS232, 1x RS485 / 5x USB 2.0 / Mouse, keyboard
Further specifications	
Exchangeable hard disks	Up to 2x 3.5" (optional)
Max. storage capacity	Up to 4 TB
Archiving medium	DVD-RW (optional)
Video norm	SDTV (PAL/NTSC)
Voltage supply	12V DC +/- 5%
Power consumption	Max. 70 W
Heating power	Max. 239 BTU/h
Dimensions (W x H x D)	425 x 88 (2HU) x 384 mm
Operating temperature	5° - 40° C, 20° - 25° C recommended
Humidity	5 - 70% RH non-condensing
Atmospheric load	Dust-free
Weight	9 - 10 kg
Fan	2x with automatic speed adaptation
Operating system	Linux
Languages	German, English, French, Spanish (others on request)
Approvals/certifications	CE, FCC, UL, ACA, UL, CB, DIN EN 50130-4

Overview bank recorders

DLS 4 Bank

DMS 80 Bank

DMS 160 Bank

DMS 240 Bank

Standard / max. video channels	4x / 8x analogue video channels	8x analogue video channels	16x analogue video channels	8x / 16x / 24x analogue video channels
Supported cameras	Dallmeier and third party analogue cameras	Dallmeier and third party analogue cameras	Dallmeier and third party analogue cameras	Dallmeier and third party analogue cameras
Operating mode	PentaplexPlus: recording, streaming, live display, playback, remote access	PentaplexPlus: recording, streaming, live display, playback, remote access	PentaplexPlus: recording, streaming, live display, playback, remote access	PentaplexPlus: recording, streaming, live display, playback, remote access
Split display	1, 4, 9	1, 4, 9	1, 4, 9, 13, 16	1, 4, 9, 13, 16, 25
Video/audio compression	H.264 / G.722.1	H.264 / G.722.1	H.264 / G.722.1	H.264 / G.722.1
Resolution	4CIF, DCIF, 2CIF, CIF, QCIF	4CIF, DCIF, 2CIF, CIF, QCIF	4CIF, DCIF, 2CIF, CIF, QCIF	4CIF, DCIF, 2CIF, CIF, QCIF
Recording mode	Permanent, motion, contact, timer	Permanent, motion, contact, timer	Permanent, motion, contact, timer	Permanent, motion, contact, timer
Max. frame rate	Up to 200 fps	Up to 200 fps	Up to 400 fps	Up to 600 fps
Frame rate per channel	Up to 3 fps at 4CIF Up to 4 fps at DCIF Up to 5 fps at 2CIF Up to 12 fps at CIF Up to 25 fps at QCIF	Up to 3 fps at 4CIF Up to 4 fps at DCIF Up to 5 fps at 2CIF Up to 12 fps at CIF Up to 25 fps at QCIF	Up to 3 fps at 4CIF Up to 4 fps at DCIF Up to 5 fps at 2CIF Up to 12 fps at CIF Up to 25 fps at QCIF	Up to 12 fps at 4CIF Up to 16 fps at DCIF, 2CIF Up to 25 at CIF, QCIF
Bit rate per channel	Up to 1.5 Mbps	Up to 1.5 Mbps	Up to 1.5 Mbps	Up to 2 Mbps
Integrated / optional functions				
Management software	PView 7 Light	PView 7 Light	PView 7 Light	PView 7 Light
Configuration software	DMS NetConfig	DMS NetConfig	DMS NetConfig	DMS NetConfig
UTC compatibility	Integrated	Integrated	Integrated	Integrated
Privacy Zones	Integrated	Integrated	Integrated	Integrated
Motion detection	Integrated	Integrated	Integrated	Integrated
SmartFinder	Integrated	Integrated	Integrated	Integrated
Suspicion track (Verdachtspur)	Integrated	Integrated	Integrated	Integrated
Track modes	Standard	Standard	Standard	Standard
SEDOR® camera sabotage protection	Optional activation	Optional activation	Optional activation	Integrated
Dual Stream	-	-	-	Optional activation
ATM activity survey	Optional activation	Integrated	Integrated	Integrated
Browser live access	Integrated	Integrated	Integrated	Integrated
Audio for all channels	Optional activation	Optional activation	Optional activation	Integrated
D/N-RC (Day/Night Remote Control)	Optional activation	Optional activation	Optional activation	Optional activation
Activation of 2 further channels	Up to 2x 2 analogue video channels (max. 8 video channels)	-	-	-
Interfaces				
Camera inputs	8x CVBS/BNC, with loop-through	8x CVBS/BNC, with loop-through	16x CVBS/BNC, with loop-through	24x CVBS/BNC, with loop-through
Video outputs	2x CVBS/BNC, 1x VGA	4x CVBS/BNC, 1x VGA, 1x DVI-I (optional)	4x CVBS/BNC, 1x VGA, 1x DVI-I (optional)	4x CVBS/BNC, 1x VGA, 1x DVI-I (optional)
Audio inputs	8x	8x	16x	24x
Aux-Line IN/Mic IN/Audio OUT	1x 3.5 mm phone jack / - / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack
Ethernet	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps	1x RJ45, 10/100/1000 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN / relay OUT	14x, each 4 functions / 5x, configurable as NO or NC	14x, each 4 functions / 5x, configurable as NO or NC	22x, each 4 functions / 5x, configurable as NO or NC	30x, each 4 functions / 5x, configurable as NO or NC
Serial / parallel / USB / PS/2	2x RS232, 1x RS485 / - / 5x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 (optional) / 1x IEEE 1284 / 3x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 (optional) / 1x IEEE 1284 / 3x USB 2.0 / Mouse, keyboard	2x RS232, 1x RS485 (optional) / 1x IEEE 1284 / 3x USB 2.0 / Mouse, keyboard
Further specifications				
Exchangeable hard disks	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)	Up to 2x 3.5" (optional)
Max. storage capacity	Up to 4 TB	Up to 4 TB	Up to 4 TB	Up to 4 TB
Archiving medium	DVD-RW drive (optional)	SlimLine DVD-RW drive (optional)	SlimLine DVD-RW drive (optional)	SlimLine DVD-RW drive (optional)
Video norm	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)	SDTV (PAL/NTSC)
Voltage supply	12V DC +/- 5%	110/230V AC +/- 10%, (50/60 Hz)	110/230V AC +/- 10%, (50/60 Hz)	110/230V AC +/- 10%, (50/60 Hz)
Power consumption	Max. 70 W	Max. 130 W	Max. 130 W	Max. 130 W
Heat power	Max. 239 BTU/h	Max. 444 BTU/h	Max. 444 BTU/h	Max. 444 BTU/h
Dimensions (W x H x D)	Approx. 425 x 88 (2HU) x 384 mm	Approx. 425 x 130 (3HU) x 446 mm	Approx. 425 x 130 (3HU) x 446 mm	Approx. 425 x 130 (3HU) x 446 mm
Operating temperature	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended	5° - 40° C, 20° - 25° C recommended
Humidity	5 - 70% RH non-condensing	5 - 70% RH non-condensing	5 - 70% RH non-condensing	5 - 70% RH non-condensing
Atmospheric load	Dust-free	Dust-free	Dust-free	Dust-free
Fan	2x with automatic speed adaptation	3x with automatic speed adaptation	3x with automatic speed adaptation	3x with automatic speed adaptation
Weight	9 - 10 kg	10 - 12 kg	10 - 12 kg	10 - 12 kg
Operating system	Linux	Linux	Linux	Linux
Languages	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)	German, English, French, Spanish (others on request)
Approvals/certifications	CE, FCC, UL, ACA, CB, DIN EN 50130-4, UVV-Kassen	CE, FCC, UL, ACA, Kalagate, CB, DIN EN 50130-4, UVV-Kassen	CE, UL, FCC, ACA, Kalagate, CB, DIN EN 50130-4, UVV-Kassen	CE, FCC, UL, ACA, Kalagate, CB, DIN EN 50130-4, UVV-Kassen
VdS certification	-	Only if ordering VdS-Mounting-Kit	Only if ordering VdS-Mounting-Kit	Only if ordering VdS-Mounting-Kit

Overview bank recorders

DMS 240 HSR Bank

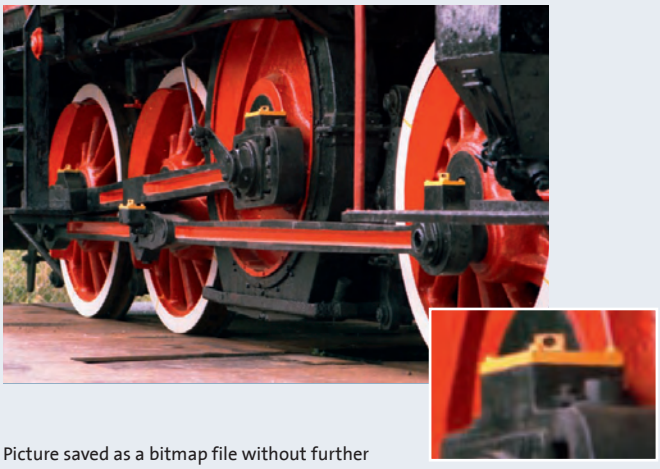
Standard / max. video channels	8x / 16x / 24x analogue video channels
Supported cameras	Dallmeier and third party analogue cameras
Operating mode	PentaplexPlus: recording, streaming, live display, playback, remote access
Split display	1, 4, 9, 13, 16, 25
Video/audio compression	H.264 / G.722.1
Resolution	4CIF, DCIF, 2CIF, CIF, QCIF
Recording mode	Permanent, motion, contact, timer
Max. frame rate	Up to 600 fps
Frame rate per channel	Up to 25 fps at 4CIF, DCIF, 2CIF, CIF, QCIF
Bit rate per channel	Up to 2 Mbps
Integrated / optional functions	
Management software	PView 7 Light
Configuration software	DMS NetConfig
UTC compatibility	Integrated
Privacy Zones	Integrated
Motion detection	Integrated
SmartFinder	Integrated
Suspicion track (Verdachtspur)	Integrated
Track modes	Standard
SEDOR® camera sabotage protection	Integrated
Dual Stream	Optional activation
ATM activity survey	Integrated
Browser live access	Integrated
Audio for all channels	Integrated
D/N-RC (Day/Night Remote Control)	Optional activation
Activation of 2 further channels	-
Interfaces	
Camera inputs	24x CVBS/BNC, with loop-through
Video outputs	4x CVBS/BNC, 1x VGA, 1x DVI (optional)
Audio inputs	24x
Aux-Line IN/Mic IN/Audio OUT	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack
Ethernet	1x RJ45, 10/100/1000 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN / relay OUT	30x, each 4 functions / 5x, configurable as NO or NC
Serial / parallel / USB / PS/2	2x RS232, 1x RS485 (optional) / 1x IEEE 1284 / 3x USB 2.0 / Mouse, keyboard
Further specifications	
Exchangeable hard disks	Up to 2x 3.5" (optional)
Max. storage capacity	Up to 4 TB
Archiving medium	SlimLine DVD-RW drive (optional)
Video norm	SDTV (PAL/NTSC)
Voltage supply	110/230V AC +/- 10%, (50/60 Hz)
Power consumption	Max. 130 W
Heat power	Max. 444 BTU/h
Dimensions (W x H x D)	Approx. 425 x 130 (3HU) x 446 mm
Operating temperature	5° - 40° C, 20° - 25° C recommended
Humidity	5 -70% RH non-condensing
Atmospheric load	Dust-free
Fan	3x with automatic speed adaptation
Weight	10 - 12 kg
Operating system	Linux
Languages	German, English, French, Spanish (others on request)
Approvals/certifications	CE, FCC, UL, ACA, Kalagate, CB, DIN EN 50130-4, UVV-Kassen
VdS certification	Only if ordering VdS-Mounting-Kit

Worth knowing | recorders

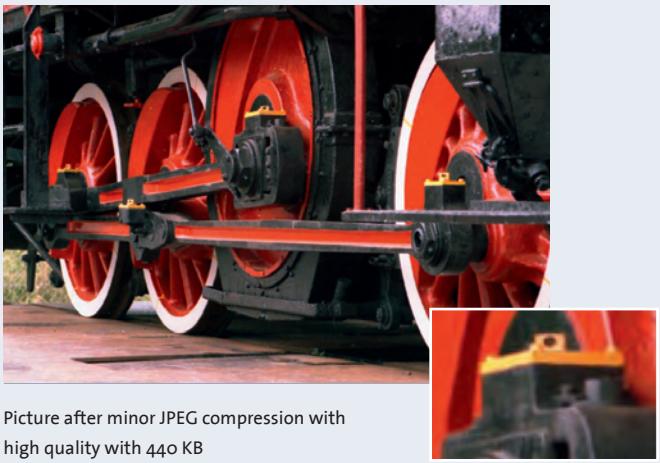
What you always wanted to know about...

Compression standards

Anyone who has saved pictures on his or her computer will know the various files in use and their corresponding sizes. When a picture is saved as a bitmap file, for example, all pixels in the picture are saved. The volume of data involved is accordingly large. For instance, the following picture with the original dimensions 140mm x 90mm (5.5" x 3.5") and a resolution of 150dpi (dots per inch) would require approximately 3 MB of memory. Various compression methods are used to reduce the volume of data. To obtain a general idea of how this works, let's consider the JPEG method.



Picture saved as a bitmap file without further compression



Picture after minor JPEG compression with high quality with 440 KB

Picture after major JPEG compression with poor quality: 26 KB

JPEG Compression

Probably the best known compression technique is JPEG (Joint Photographic Experts Group). With JPEG the entire picture is evaluated and redundant (i.e. similar and interchangeable) pixels are grouped in blocks. The higher the degree of compression, the more pixels are grouped in a block. At a high level of compression the creation of blocks has a negative effect on picture quality, with the blocks (artefacts) becoming clearly visible in the picture. JPEG compression always entails the loss of data, hence it is impossible to restore the picture to its original condition.

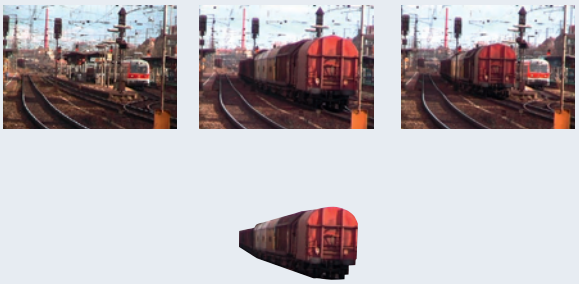
In the full view you hardly notice any change at first glance. In a close-up detail view, on the other hand, the artefacts are clear to see. Therefore, the most important thing to consider when selecting the degree of compression is the size in which the picture is to be viewed or printed.

The JPEG compression technique is suitable for single pictures but not for video sequences. An adaption of the JPEG compression method for video sequences is available under the name MJPEG. Data compression is essential particularly for video recordings. Without compression, a 90-minute film in real-time would require approx. 120 GB of memory.

MPEG Compression

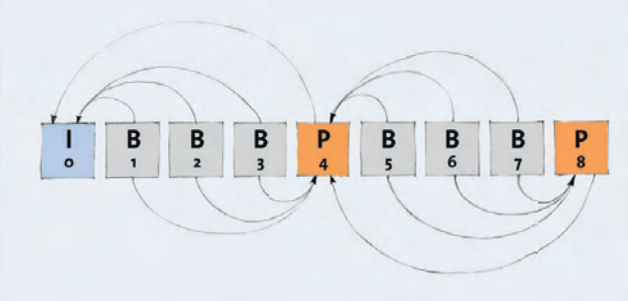
MPEG stands for "Motion Pictures Expert Group" and meanwhile divides itself into the standards MPEG-1, MPEG-2 and MPEG-4. MPEG-3 was integrated into MPEG-2 and hence no longer represents an individual standard.

Unlike MJPEG, the MPEG method does not compress each individual picture but only, for example, every 12th individual picture. These individual pictures are called intra-frames (I-frames). The pictures between these I-frames are not transmitted in full – only the changes between the I-frames are transmitted (differential frame method).



I-Frame 1 P-Frame 1 I-Frame 2

Between the two I-frames in this extremely simplified example is one picture containing a change from the preceding I-frame. This severely reduced picture is called a P-frame (P stands for Predicted). Severe distortions in a picture's content may arise when there is only one P-frame between two I-frames. This is prevented by placing so-called B-frames (B stands for bidirectional) between I-frames and P-frames. B-frames obtain their information contents through referencing with the pictures which are transmitted both beforehand and afterwards.



The sequence of I-, P- and B-frames is called a Group of Pictures (GOP).

Wavelet

The wavelet compression represents a fundamental method for signal compression which has continuously been developed into new variants. From early on, it was used in video technology for the compression of single pictures (for example with the Dallmeier recorders of the second and third generation) and has been further improved ever since.

Today, despite the latest developments and state-of-the-art compression standards, it is still an efficient and fast method for the compression of pictures. Its functions (wavelet transformation) and filters are still in use as an integral part of the latest compression technologies, for example with the consecutively developed standards JPEG, MPEG and H.264.

H.264

As in many other sectors the requirements on standardised procedures for the compression of images have risen significantly. This is true for the quality of pictures as well as the flexibility of the compression procedure itself. With H.264 a new standard for video compression has been created, basically comparable with MPEG and fulfilling high requirements.

H.264 enables the bit rate to be reduced significantly with the same or even better picture quality.

In comparison with MPEG-4 a reduction of 37% is achieved, whilst a reduction of 64% is achieved in comparison with MPEG-2.

"H.264 provides a better signal-to-noise ratio at equal bit rate for TV resolution than JPEG2000, even when optional access to individual pictures is possible. Therefore H.264 can also be used efficiently in surveillance applications where each individual picture has to be recorded."
Dipl.-Ing. Carsten Reuter, University Hannover

Benefits:
- Significant cost reduction
- Lower demand on hard disk
- Lower network load
- Longer recording periods

Worth knowing | recorders

What you always wanted to know about...

fps

The terms “field” and “frame” are often mixed up.

Field = Half picture
Frame = Full picture

After interlacing, an analogue video image consists of two half pictures. First half picture = even lines, second half picture = uneven lines. In other words: One frame is made up of two fields.

The abbreviation "fps" stands for "frames per second" i.e. the number of full pictures that are transmitted per second.

Real-time recording

All audio/video data are processed with a frame rate of 25 fps (PAL) or 30 fps (NTSC) respectively. That frame rate is perceived as a judder-free video stream by the human eye and all movements are displayed clearly. During recording a complete backup of the events is ensured, which is particularly necessary for applications with very fast movements (e.g. manufacture, casinos).

UTC compatible

UTC (up the coax) compatible recorders offer the possibility to configure a Dallmeier camera with the recorder user interface via the video cable, where the configuration menu of the camera is displayed within the live picture. Control buttons, which are integrated in the control panel, allow for an intuitive navigation through the menu.

UTP

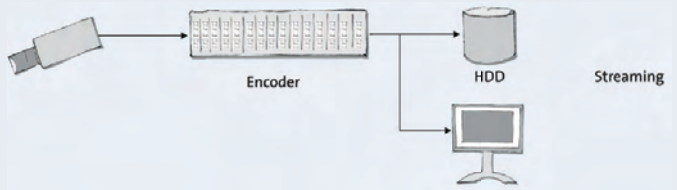
Recorders with a UTP video input (Unshielded Twisted Pair) can be connected to a camera using a two-wire line. Therefore, existing wiring for picture transmission can be used in many cases.

Bi-directional audio transmission

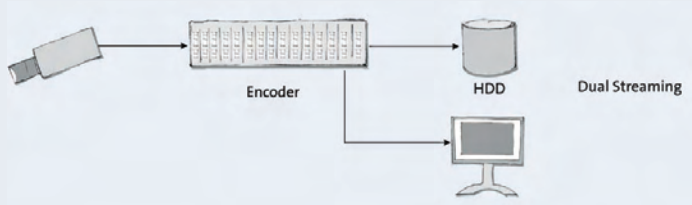
Recorders that feature bi-directional audio transmission can send audio signals to a receiver and in turn receive its signals. Connecting a speaker and microphone to the recorder allows for the set-up of a cost-efficient intercom system.

Dual Stream

Streaming methods allow for the transmission of data via the network, where the transmission quality of live and recorded images is equal to the recording quality at the recorder. The disadvantage is that the transmission of the usually large files requires a high bandwidth.



Dual Stream resolves this problem by choosing a different quality for the transmission of live pictures than is chosen for recording them. This means that recording is done in high quality, whereas a lower quality is chosen for the transmission, hence leading to a lower network load.

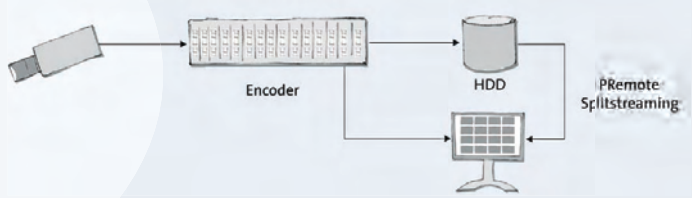


PRemote

Like Dual Stream, PRemote enables the transmission of pictures using lower bit rates. It does offer some further advantages though.

While with Dual Stream it is only possible to change the transmission quality of live pictures, PRemote also allows for the transmission of recorded images at lower bandwidths.

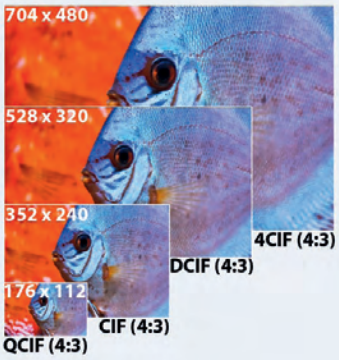
With Dual Stream an active connection with a camera can be set up, consequently leading to only one split. PRemote, however, enables a multi-split of up to 4x 16time multi split.



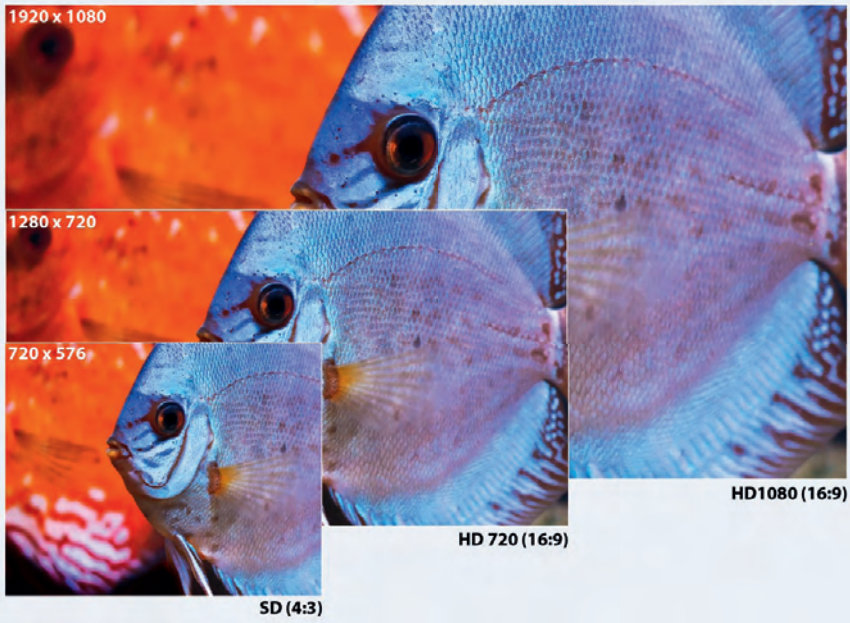
PRemote generally requires less bandwidth than Dual Stream, therefore only PRemote is suitable for use of ISDN.

Resolution

	QCIF	CIF	DCIF	2CIF	Half D1	4CIF	Full D1
PAL	176 x 144	352 x 288	528 x 384	704 x 288	352 x 576	704 x 576	720 x 576
NTSC	176 x 112	352 x 240	528 x 320	704 x 240	352 x 480	704 x 480	720 x 480



	SD	HD 720 format	HD 1080 format
	720 x 576	1280 x 720	1920 x 1080



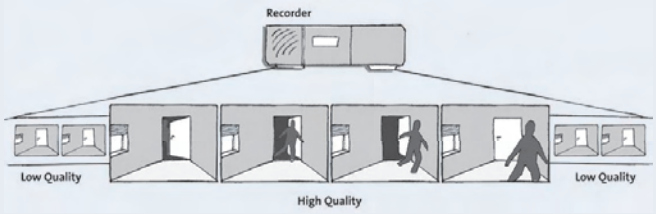
Worth knowing | recorders

What you always wanted to know about...

VRM

The variable recording mode (VRM) for the DMS recorders of the "In Memory of Leonardo" series allows for an event-driven switching of the recording quality. Initially, the recorder records permanently with normal video quality. If a pre-defined event occurs (motion, triggering of a contact, controlled by timer), the recorder automatically switches to a permanent recording with high video quality. Additionally, through switching by the timer the type of recording can be changed (permanent, motion, contact).This allows an extremely efficient use of storage space and bandwidth since high-quality transmission and recording is only activated if necessary.

Example: Automatic switching on movement



Track modes

From version 6.3.0 onward the recorders of the DLS series and the DMS series “In Memory of Leonardo" can be operated with three different track modes. These differ basically in regard to the storage concept and therefore in regard to the options of the recording settings.

Standard
In the "standard" track mode – which equals the previous recording mode – a certain part of the entire video memory is manually assigned to every camera/track. Thereby static tracks will be defined. If the size of one track is modified, the recordings in all tracks must be deleted.

The "standard" track mode is particularly useful when
- standard / secure tracks are to be used
- new recorders are to be integrated into existing system whereby all of them must be identically configured

Manual
If you would like to determine yourself how much storage space is assigned to every camera, the "manual" track mode is ideal. Thereby the entire video memory is automatically segmented into storage units, which you can then assign manually to each camera/track. In doing so, static tracks will be defined. The size of the individual tracks can be modified at any time without having to delete all recordings.

The “manual“ track mode is particularly useful when
- images of individual cameras are to be held out for a considerably longer period of time than usual
- it is to be expected that further cameras will be added at a later stage
- the variable recording mode (VRM) is used

Automatic
The new “automatic” track mode is the “convenience setting” so to speak. You don't have to worry anymore about how much storage space should be assigned to which camera, because the recorder does it for you. The entire video memory is automatically segmented into memory units and distributed across the cameras as required. Thereby dynamic tracks are defined, which are automatically adjusted to individual requirements. Hence, storage resources are intelligently allotted and the installation of the system is carried out quickly and easily. Furthermore, the hard disk is not fragmented, which could reduce the operating speed of the system.

For example: A camera which permanently records is allotted more storage units than a camera that only records if movement is detected. If the settings are changed, the recorder automatically applies the new distribution of the storage units. During the process no recorded images are lost.

The “automatic“ track mode is particularly useful when
- the recorded data from all cameras is to be held out for the same period of time
- it is to be expected that further cameras will be added at a later stage
- the variable recording mode (VRM) is used

Specific tracks with bank recorders

Hold-up track
Hold-up tracks are generally relatively small ring memories. Every camera can be assigned a hold-up track which can record using a different type of recording than the one used for the long play track. In certain circumstances (for example at the start of the alarm condition), the hold-up tracks will be saved. This ensures that images cannot be overwritten. The recording is then continued in a new hold-up track.

Suspicion track
The suspicion track is a mixed track in which the images can be saved as soon as a bank employee pushes the suspicion button. This allows the recording of suspicious persons and, if needed, a subsequent evaluation (for example if, after a hold-up, the bank employee remembers persons who acted suspiciously beforehand).

Day/Night Remote Control (D/N-RC)

The Day/Night Remote Control is a contact function with which the Day/Night switching of a camera (analogue, UTC-ready) can be controlled. The switching from day to night mode (and vice versa) can therefore be carried out conveniently through a button or via an external device.

SmartFinder advance

The SEDOR® SmartFinder advance module detects static objects that have been added to or removed from a scene. A detected object event will be saved together with the corresponding coordinates in a database. The evaluation of the object events can be carried out for any areas of the images using the external Dallmeier PView software.

PentaplexPlus functionality

The Dallmeier PentaplexPlus functionality far exceeds the usual five Pentaplex standards. The recorders allow for example a simultaneous recording, streaming, backup, live display and playback at the recorder or via network and also enable remote access via network for configuration as well as transcoding via network.

DNI

For the connection of different external devices or systems (e.g. ATMs, PTZ cameras, cash registers or card readers), Dallmeier specifically developed the DNI (Dallmeier Network Interface). The DNI allows the data from the external device to be included in the video image or can control external devices.

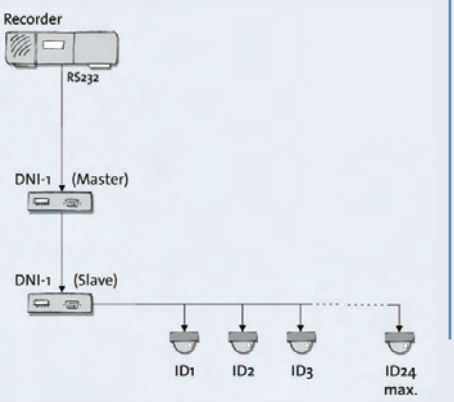
The DNI serves as a data interface and receives data from an external device. The DNI can be used for any system because the protocol can be adjusted to any manufacturer.

What does adjusting the manufacturer protocol mean? The DNI acts as a translator between the two devices. Before it can be used, it needs to know how the data is to be converted. This is defined in a so-called protocol, which is a kind of text file that says which incoming data set is to trigger a transmission of which data set on the other side. So, the DNI is a kind of "dictionary" that translates the different languages of the two systems.

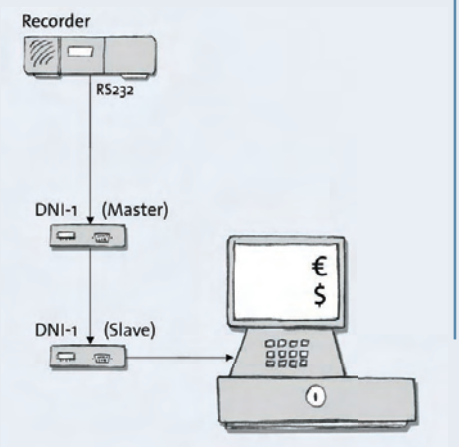
The DNI can be used for any system once the corresponding protocol of the manufacturer has been adjusted. Adjusted means that the protocol file is supplemented so that the DNI translates correctly for our recorders.

This means that once a protocol for a specific device/manufacturer is written then the DNI can be used to interface that device to any Dallmeier recorder.

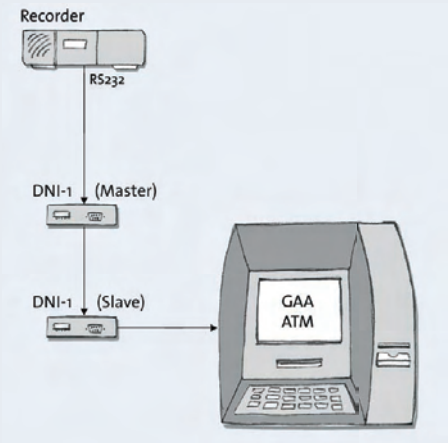
Example: Connection of PTZ cameras



Example: Connection of a cash register



Example: Connection of an ATM



Hard disks

We provide you with high-value hard disks for professional security applications. The choice is yours between loose HDDs without installation or HDDs already fitted by Dallmeier.

Hard disks for security applications
As opposed to hard disks that are available for purchase, all Dallmeier hard disks are specifically designated for 24-hour security applications. Comprehensive stress tests and stringent quality controls ensure that the hard disks are measure up to the load associated with a permanent operation.

As a matter of fact a hard disk which is to be used for permanent recording in security applications is exposed to high stress and is thus subject to highest wear and tear.

Quality control

- Before a hard disk model is cleared, it is thoroughly tested according to the Dallmeier testing regulations.
- Every delivered batch of hard disks is subjected to an incoming control prior to being used; no matter if the hard disks are meant for fitting or replacement parts shipments.
- Once a hard disk is fitted into a recording system the first function test is carried out (recording and display).
- Subsequently a long-term test of at least 24 hours is carried out (image recording).
- Only then the final test of the recording system is conducted. The recordings made are also tested as are the image display and the search function.
- Following the final test the technically responsible employee counter-checks the positive result and clears the recording device for shipment.

Please note:

- Always use hard disks of the same capacity (GB)!
- The DLS/DMS/PVS/VNS models can optionally be fitted with 1 HDD or 2HDDs of the same storage capacity!
- The DAS-4 can optionally be equipped with 1 HDD up to a maximum of 4 HDDs. In doing so, use the same storage capacity as is used in the recording device!

Variants

100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk

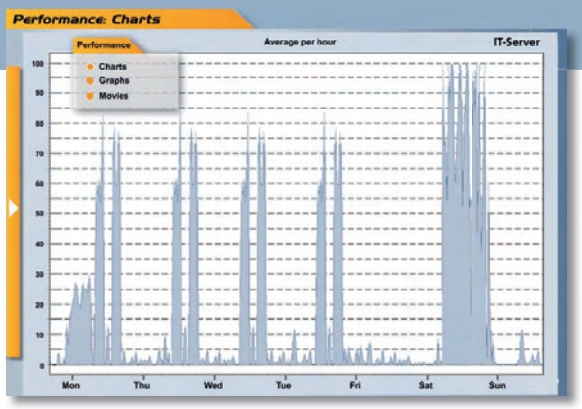
Options

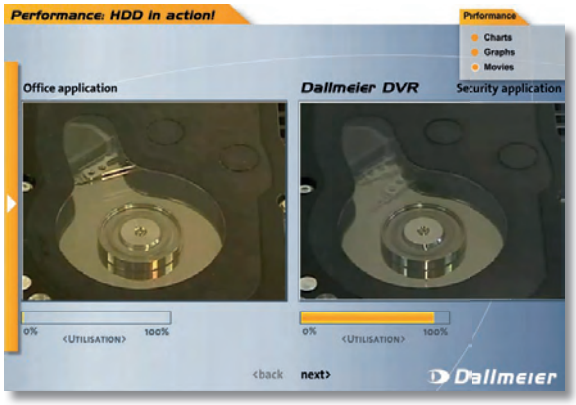
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

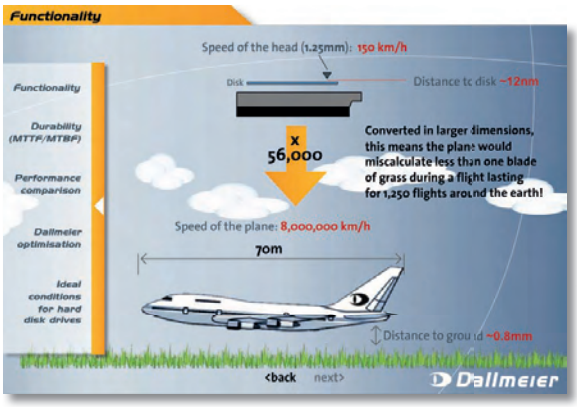
Good to know!

On the Dallmeier web site you will fi nd all the information you need about hard disks – including their functionality, capacity, utilisations in different areas of use or recommendations for a qualifi ed environment – in a vivid Flash animation. And the best about it: You can download this Flash animation and forward it to customers and end users.

www.dallmeier.com







Storage systems

Individuality, security, functionality

In order to increase storage capacities and to secure the recorded data optimally, Dallmeier is offering DAS (Direct Attached Storage) systems. These are external storage chassis for connection to the recorders in the DMS series.

Required capacities can be connected individually
The DAS systems can be connected to enable recording capacities that exceed the net hard disk capacity of the Dallmeier digital recorders or for maximum data security (also in the case of a hard disk failure) at special video surveillance systems. Several variants allow an ideal adaptation to the individual storage requirements of each single project.

Maximum data security
The storage system can be organised as different RAID levels (Redundant Array of Independent Disks), ensuring maximum operating reliability, data security, performance and capacity of the mass storage devices. The integrated hot-plug functionality ensures that hard disks can be replaced without problems during operation should a fault arise. In addition, a hard disk can be configured as a hot-spare that automatically assumes the function of another hard disk on failure, without the end user having to intervene.

Hot-plug functionality
Redundant power supply unit and additional fans, also with hotplug functionality, ensure optimal and smooth operation during which the security of the stored data is guaranteed at all times.

DAS-303

The DAS-303 is a powerful external FC-SATA storage system for connection to recorders of the DMS series. Thanks to its redundant, modular design with hot-swappable components, its innovative storage management software and a flexible interface support with highly reliable storage devices it offers a high performance security solution with highest scalability and functionality. Its 2HU housing can contain max. 12 SATA HDDs in lockable slide-in units. They can be configured for redundant recording with the integrated graphical user interface (web browser).

- The system is ready for operation incl. particularly suited and Dallmeier approved and authorised HDDs
- Can be equipped with up to 4 expansion housings with a total maximum number of 60 hard drives, expansion via SAS
- Standard RAID level 5 (RAID level 0, 1, 10 and 50 upon request)
- Gross capacity (for 1 TB HDD): 12 TB (net: 10 TB)
- Installed RAID controller supports RAID level 0, 1, 5, 10, 50
- Installed FC controller for external connection
- Up to 2x 4 GB/s FC interface
- Hot-spare functionality and automatic rebuild
- Hot-plug functionality: HDDs, power supply units and fans can be exchanged during operation
- Alarm function via PGuard on hard disk, fan and power supply unit failure
- Management and alarm via installed Ethernet interface possible
- Requirements: 1.) Software version from 6.0.9 (for hybrid recorders) / 2.) Air-conditioned dust-free environment, server environment is ideal

Variants

180.303.2.0700.07	DAS-303 7000 with 7x 1000 GB HDDs Net storage capacity: approx. 5000 GB
180.303.2.0800.08	DAS-303 8000 with 8x 1000 GB HDDs Net storage capacity: approx. 6000 GB
180.303.2.0900.09	DAS-303 9000 with 9x 1000 GB HDDs Net storage capacity: approx. 7000 GB
180.303.2.1000.10	DAS-303 10000 with 10x 1000 GB HDDs Net storage capacity: approx. 8000 GB
180.303.2.1100.11	DAS-303 11000 with 11x 1000 GB HDDs Net storage capacity: approx. 9000 GB
180.303.2.1200.12	DAS-303 12000 with 12x 1000 GB HDDs Net storage capacity: approx. 10000 GB

Options

180.302.102	DAS-30X FC wire LC-LC 3m
180.302.103	Configuration of the DAS-30X storage extension, by Dallmeier employees
180.302.104	StorView Global Manager, this activation is serial number dependent
180.302.ZC	Additional controller for DAS-300E
180.303.1000	1x 1000 GB HDD incl. removable tray

Storage

DAS-300 E

The DAS-300 E is an extension for the DAS-303 external storage system. Its 2HU housing can contain max. 12 SATA hard disks in lockable slide-in units. Up to four DAS-300 E can be cascaded to extend a DAS-303 storage system. Thus the total memory capacity of the external storage system can be enlarged upon 60 SATA HDDs (currently up to 60 TB gross).

- For extending the storage capacity of the DAS-303
- External storage system for connection of a DAS-303 basic housing or a DAS-300 E for cascading
- Max. of 12 HDDs can be used
- The system is ready for operation incl. particularly suited and Dallmeier approved and authorised HDDs
- Standard RAID level 5 (RAID level 0, 1, 10 and 50 upon request)

Variants

180.302.3.0700.07	DAS-300 E 7000 with 7x 1000 GB HDDs Net storage capacity: approx. 5000 GB
180.302.3.0800.08	DAS-300 E 8000 with 8x 1000 GB HDDs Net storage capacity: approx. 6000 GB
180.302.3.0900.09	DAS-300 E 9000 with 9x 1000 GB HDDs Net storage capacity: approx. 7000 GB
180.302.3.1000.10	DAS-300 E 10000 with 10x 1000 GB HDDs Net storage capacity: approx. 8000 GB
180.302.3.1100.11	DAS-300 E 11000 with 11x 1000 GB HDDs Net storage capacity: approx. 9000 GB
180.302.3.1200.12	DAS-300 E 12000 with 12x 1000 GB HDDs Net storage capacity: approx. 10000 GB

Options

180.302.1000	1x 1000 GB HDD incl. removable tray
180.302.102	DAS-30X FC wire LC-LC 3m
180.302.103	Configuration of the DAS-30X storage extension, by Dallmeier employees
180.302.104	StorView Global Manager, this activation is serial number dependent
180.302.ZC	Additional controller for DAS-300E

Storage

DAS-4 Eco

The DAS-4 Eco is a practice oriented and economic storage expansion for the recorders of the DMS series "In Memory of Leonardo". The housing, which is only 1HU, can contain max. 4 SATA HDDs in lockable slide-in units with a maximum total capacity of 4 TB. They can be configured for redundant RAID 1 recording with the recorder. The HDDs can be replaced from the front of the recorder and in case of a hard disk failure the Easy-Change functionality ensures greatest ease of maintenance. Two redundant high performance fans guarantee optimal ventilation. Power is supplied directly via the 12V DC output of the recorder. An additional power supply unit is not necessary.

- 4 lockable slots for Dallmeier approved and authorised SATA HDDs
- RAID 1 (configuration via recorder)
- Easy-Change functionality in case of HDD failure (no hot-plug, no hot-swap)
- 2 redundant high performance fans
- Power supply via recorder (12V DC output)
- Data transfer via SATA extension interface
- Easy installation (plug&play)
- Practice oriented handling

Variants

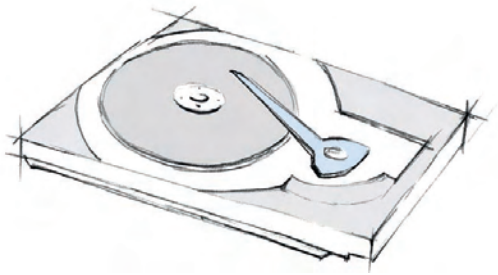
180.400.1.000.000	DAS-4 Eco without HDDs Please note that HDDs must be ordered separately!

Options

000.215	19" bracket, for a 1HU single device
100.118	Power supply unit, 110-240V AC on 12V DC
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

Storage

Worth knowing | Hard disk drives



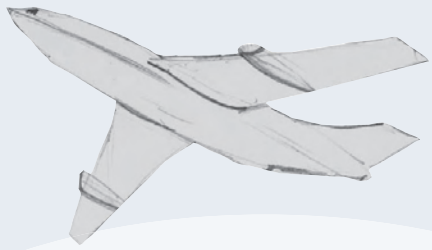
A miracle of technology

Workstations, laptops, personal computers and security recorders all contain a hard disk drive. Today it's a self-evident fact that no one thinks twice about. Take a closer look however, and you will appreciate that hard disk drives are a tremendous miracle of technology, accomplishing incredible things.

A hard disk drive is generally defined as a non-volatile storage device that stores digitally encoded data on rapidly rotating platters with magnetic surfaces. It saves information by targeted magnetisation of tiny parts on the surface of the disk. Therefore the drive uses a small electro-magnet assembly, referred to as a head.

The head floats above the surface on an air cushion generated by the air friction of the rotating disk. Nowadays the space between the head and the disk constitutes approximately 12 nanometres. Compare this with a single human hair that measures 50,000 nm! It stands to reason that the air between the head and the hard disk drive must exclude all pollution to avoid possible damages.

The power and accuracy of a hard disk drive can be compared with a plane flying at 8,000,000 km/h at a height of 0.8 mm above grassland, simultaneously counting every single blade of grass. The plane would miscalculate less than one blade of grass during a flight lasting for 1,250 flights around the earth. An impressive performance!



Durability of hard disks

Hard disk drive manufacturers typically use the "mean time to failure" or MTTF to indicate the operational reliability of their products. This is the average period until a failure occurs.

When a hard disk drive manufacturer indicates that the MTTF is 1,000,000 hours (116 years), this doesn't mean that a hard disk drive will first fail after 1,000,000 hours in use. Rather it means that when 1,000 hard disk drives begin simultaneously and the first failure occurs after 1,000 hours, the resulting MTTF is 1,000,000 hours.

In other words:
1,000 HDD x 1,000 hours of operation = 1,000,000 hours MTTF

Hard disks that are used for this calculation have not reached the end of their product lives yet (generally 5 years), are operated within the ideal temperature range (max. 40°C) and have not been damaged.

Important parameters for the product life of a hard disk drive are the number of hours of operation as well as the number of read and write accesses. A hard disk drive that is operated in 24/7 mode (24 hours a day and 7 days a week) and which is permanently accessed, has a considerably higher wear and tear than a hard disk drive with fewer hours of operation and only occasional accesses.

Hard disk drives in use for security

Hard disk drives in digital video recorders, used in modern video surveillance, can be compared with "top athletes". A hard disk drive in a standard PC is probably operating 8 hours a day, 200 working days a year and its capacity utilisation only amounts to 3%. Security applications have a capacity utilisation of 99.9%[1)], information is stored on the hard disk drive 24 hours a day and 365 days a year.
[1)] permanent recording, no image comparison]

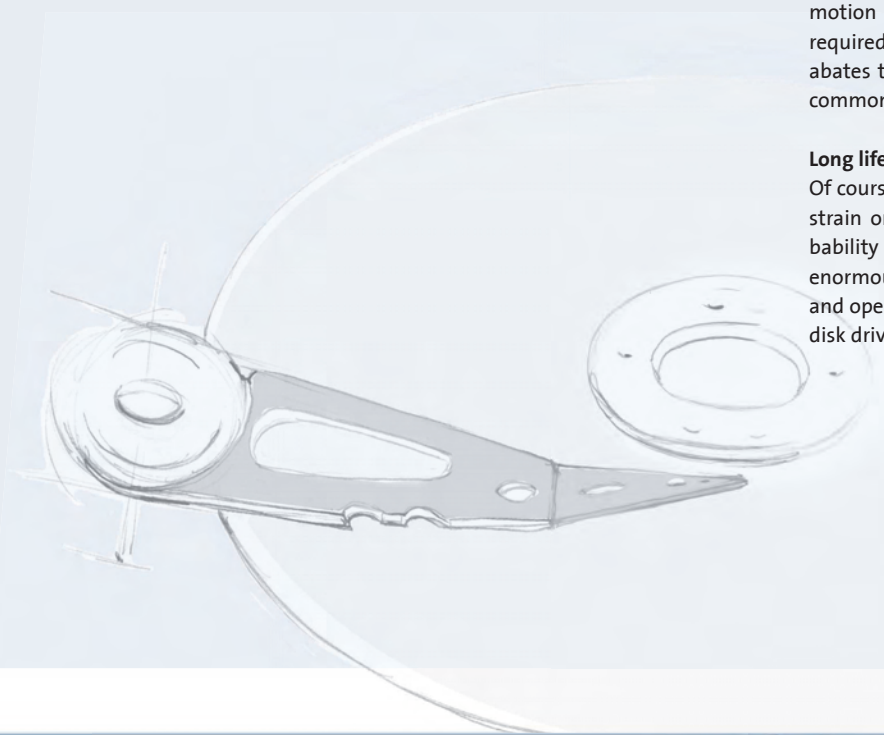
Even IT-servers have only an average capacity utilisation of 65%. Nevertheless every operator is aware of the fact that a server has to run in an appropriate environment, i.e. in an air conditioned, dustfree room. In this respect, DVRs often get neglected. There are scenarios, for instance, where a recorder is stashed in a closet or operated on an unstable surface.

In spite of constant load and sometimes suboptimal environment conditions, hard disk drives in security applications have a MTTF of 200,000 hours! Thomas Reisinger, Technical Director at Dallmeier:
"Dallmeier calculated this value empirically. All hard disk drives that have been installed in our products and were used worldwide provided the data for this calculation."

This doesn't alter the fact that hard disk drives are and remain the main failure reason for digital recording systems. However, the statement "there is a problem with the hard disk drive" is qualified immediately, when the above thoughts are considered.
To demonstrate it with a descriptive comparison: the probability of an engine failure of a formula 1 racing car is understandably higher than the probability of an engine failure of a car that is always standing in the garage.

Ideal conditions for hard disk drives at Dallmeier
Dallmeier does everything possible to extend the product life of the hard disk drives. Only hard disk drives tested and approved by Dallmeier are used in the recorders. Even if the hard disk drive doesn't derive from the own manufacture, Dallmeier strictly ensures that all quality standards of the CCTV/IP manufacturer are fulfilled. This means, of course, that all hard disks are handled with the utmost care throughout the production process.

Elaborate ventilation systems and extensive system messages (temperature monitoring) make sure that the hard disk drives are operated in an ideal environment and that the user is immediately informed about possible malfunction. In case a hard disk drive has to be replaced, the disks are located in removable drawers for ease of access and to reduce the downtime of the system to a minimum.

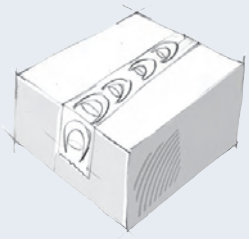


Recommendations on how to create a qualified environment

Hard disk drives used in security applications must perform to their optimum. To ensure this, some preconditions have to be fulfilled. As already implied, the failure probability can be reduced significantly through creating ideal environmental conditions.

Next to the operating temperature, shocks and vibrations are another main reason for hard disk drive failures.

Therefore:
- Only transport the device in its original packing
- Protect the device against shocks
- Protect the devices in operation against being hit
- Do not move the devices in operation
- Locate in a vibration-free environment
- Consider the installation position of the device



Further possible reasons for a shortened product life of a hard disk drive:

- Power failures
- Damage through electrostatic influences
- Magnetic fields
- Corrosion caused by too high humidity
- High temperature changes (condensing humidity)
- Air pollution

Thomas Reisinger again: "There is another aspect that can extend the product life of hard disk drives significantly: intelligent recording through motion detection. Often the recorder is recording something that isn't required. Recording only when there really is a movement in the picture, abates the wear of the hard disk drive. A reduction of more than 50% is common!"

Long life for the hard disk drive
Of course there are hard disk drive failures. However, despite the constant strain on hard disk drives used in security applications, the failure probability is extremely low. Dallmeier's strict manufacturing standards help enormously. Provided that some basic conditions concerning environment and operation of the video recorders are regarded, the product life of hard disk drives can be increased enormously.

Workstations

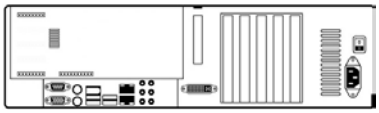
Professional analysis of live image and recording

The Dallmeier security workstations are specifically designed for the evaluation of the digital hard-disk recorders (DMS, DLS, VNS, DIS) via a network. The required hardware and software is preinstalled and pre-configured. Via PView, ProcessViewer and PGuard advance, recordings and messages can be evaluated centrally and conveniently. All alarm messages are stored together with the most important information. Recordings may be displayed as frames via the integrated player or swapped to external storage devices.

The use of the workstations is recommended wherever decentralised recording systems are controlled, operated and evaluated via network or from different locations and also where messages issued by the recording devices need to be received from one location. Such is the case with security control rooms of industrial companies or security services and central offices of affiliated groups

Using the evaluation stations the evaluation, display and arrangement of the images is extremely flexible. This is because the images can be displayed easily and conveniently, regardless which recording format (H.264, MPEG-2/-4, JPEG, MJPEG, ...) and which resolution (CIF to high-definition) the images were recorded in. It is also irrelevant which camera type was used to record the images (analogue, IP, HD). All signals and compression methods can be displayed simultaneously. The images are displayed on local monitors or as a multi-split on large-format screens.

PView Station PVS IV Plus



The PView Station PVS IV Plus is a HD compatible stand-alone evaluation and management station for Dallmeier recorders. Its powerful Intel Core2Duo CPU enables a smooth video display with high image quality in up to 14 independent splits. The connection between PVS IV Plus and one or more Dallmeier recorders is realised via an IP based network. All necessary hardware and software is already installed and pre-configured.

- Simultaneous processing of up to 14 channels: Recording clip, decoding, live display and playback
- HD ready
- Video compression: H.264, MPEG-2/-4, MJPEG
- Audio compression: MPEG-1 Layer 2, G.722
- Resolution: SD, HD (720p, 1080i, 1080p), up to 8 MP
- Frame rate up to 25 fps at D1
- Integrated management software: PView 7
- Integrated event management software: PGuard advance
- Software protected through USB dongle
- Operating system: Windows* XP SP2, SP3
- Internal hard disks: up to 3x 3,5“ HDDs
- Integrated DVD+RW/DL drive
- DIN EN 50130-4 compliant

Variants

200.304.1.000.0	PVS IV Plus without HDDs Please note: At least one HDD must be ordered together with the device (for operating system and recording). You can access two additional HDDs to increase storage capacity!

Options

000.194	19" bracket, for a 3HU single device
200.120	Graphics card for 2x further DVI / VGA interfaces
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
100.030	FC interface (fiber optic), for connecting DAS-303 (see storage systems), only ex factory
100.090	SATA interface, for connecting DAS-4 Eco (see storage systems), only ex factory
129.305.3	Joystick, Tri-axial joystick, only in combination with PView 7 Light or PView 7
200.325	DFM-1-USB radio clock unit, Radio clock unit on USB (up software version: V5.1.X)
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

DIS-16 VarioDecoder

The DIS-16 VarioDecoder is an HD ready 16 channel audio and video decoder. It is able to receive audio and video streams from Dallmeier hybrid, H.264, Wavelet and MPEG recorders via an Ethernet network, and decode and output them as analogue audio and video signals in real-time. Furthermore, the DIS-16 VarioDecoder is an evaluation and management station for those Dallmeier recorders. All necessary hardware and software is already installed and pre-configured. The DIS-16 VarioDecoder is a stand-alone decoder in compact design (1HU). Additionally, it is designed for installation in a 19" rack mount and operation in server rooms.

- Supported video formats: MPEG-2/-4, Wavelet, H.264
- Simultaneous decoding and monitoring of up to 16 channels
- HD ready
- Up to 16x split display supported
- Resolutions: SD, HD (720p, 1080i, 1080p), up to 8 MP
- Integrated management software: PView 7 (HD ready)
- Integrated event management software: PGuard advance
- Exchangeable hard disks: up to 2x 3,5“ HDDs
- Integrated Slimline DVD+RW drive
- Compact design (1HU)
- DIN EN 50130-4 compliant

Variants

002.009.0.000	DIS-16 VarioDecoder without HDDs Please note: At least one HDD must be ordered together with the device (for operating system and recording). You can access one additional HDD to increase storage capacity!

Options

200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)

Video Management

Orientated towards the users' requirements

With the appropriate video management software all needs can be met – no matter if it's recording, evaluating or controlling. Especially with larger projects decisive factors, apart from reliability, include user-friendliness, flexibility and scalability.

For a complex and high-quality video surveillance system only a sophisticated video management system is able to efficiently control operations. A professional management system can ensure that the enormous quantities of data created nowadays by the recording of surveillance scenarios can also be handled by users.

With the Dallmeier solution you possess an innovative and future-proof management system, which can be customised to meet your individual needs whilst offering flexibility and scalability in order to fulfil future requirements.

VMC-1 "Eagle"

The Eagle – from time immemorial the "Sovereign of the Airs" has been an epitome of elegance, supremacy and clairvoyance but also of grace, lightness and beauty. Its natural behaviour is characterised by serenity and overview, yet at the same time exhibits intuitive and precisely accurate reaction – unerring and as swift as an arrow.

Fulfilled with admiration for the aesthetics and perfection of nature, the hardware specialists at Dallmeier focused on the exceptional qualities of this magnificent bird in creating a product that would meet the high requirements of professional security work.

With the VMC-1 "Eagle", a top-class Video Management Centre has been developed, which by far exceeds the functionality as well as the ergonomics of standard, industrially-manufactured keyboards.

Video Management Centre

EAGLE

Perfect harmony of technology and design.

Video Management Centre

VMC-1 EAGLE

The Video Management Centre “Eagle” is modular in its structure and thus highly flexible. The individual components, whether it‘s the keypad, the joystick or the jog-shuttle, may be positioned according to individual preferences and are therefore equally well-suited for both left- and right-handed operators. Moreover, it is also possible to use the individual components as freely programmable stand-alone devices.

Sophisticated ergonomics and a classic, timeless design allow for durable and efficient operation. Product designers analysed the typical motion patterns of security operators during months of field tests. The lessons learned were then directly incorporated in the development of the product, resulting in a man-machine interface which guarantees the highest possible user-friendliness.

- Flexible positioning of the modules
- Individual modules can be used as stand-alone devices
- 6" TFT monitor for picture display
- Tri-axial joystick
- Plain, low-maintenance surface
- Ergonomic operation thanks to intelligent design
- Versatile uses possible due to its unique, high-quality style

Item no. SL129.304

Other design variants are possible – just ask us!

Video Management Centre Details

Jog-Shuttle

The jog-shuttle is ideally suited for quickly finding a specific image within a video sequence. By rotating the central jog-dial the security operator can conveniently move through individual frames.

Monitor

While other manufacturers merely offer pure displays with only basic functionality, the Dallmeier Video Management Centre VMC-1, as the first of its kind, features an interactive 6" TFT monitor (640 x 480 pixels) which allows for the display of live pictures as well as recorded footage.

Joystick

Using the joystick, functional cameras can be conveniently controlled since pan, tilt and zoom movements can be carried out intuitively. If the mode is switched, the joystick can also be used as a mouse, which allows an easy menu control.

Keypad

The overall shape of the keypad with its user-friendly curvature allows for an ergonomically optimal hand position, with the smoothed off edges further enhancing the device's usability.

Video System Controller (VSC-1)

The Dallmeier VSC-1 (Video System Controller) is a keyboard for the remote control and display of up to 24 cameras. Its ergonomic design and compact configuration allow a user-friendly and efficient operation even when little room is available.

- Serial interfaces RS422 and RS485
- Control of up to 24 PTZ cameras
- Programmable PTZ tours
- Tri-axial joystick
- Low-maintenance rubber keyboard
- Easy connection
- Power supply with power pack or battery
- Easy operation

Item no. SL129.303

Software

**The human-technical interface –
software modules deliver functional synergies**

At Dallmeier the human being, meaning the user of a video surveillance system, is in the front. In order to use a complex security system with an immense amount of data, information and events efficiently the user needs help from technology. Sophisticated management systems (software) build the optimal interface between human being and technology. Management systems combine information and events of different systems that activate automatic processes in the universal system. By that the human being is released and can concentrate on important and prequalified events. On the computers of the relevant workstation data synchronising and analysing processes are running – in the background and invisible for the user – that support the user and point out important events. Only in this way a security system can be used purposefully.

PView

Practical management tool for one or more Dallmeier recorders. Via LAN/WAN all the digital recorder's important user options can be accessed (e.g. live picture transmission, backup, virtual tours or synchronisation).

PGuard advance

Facilitates the administration of incoming messages. It is possible to select from various types of messages certain messages to be displayed in a window together with an acoustical warning.

SeMSy®

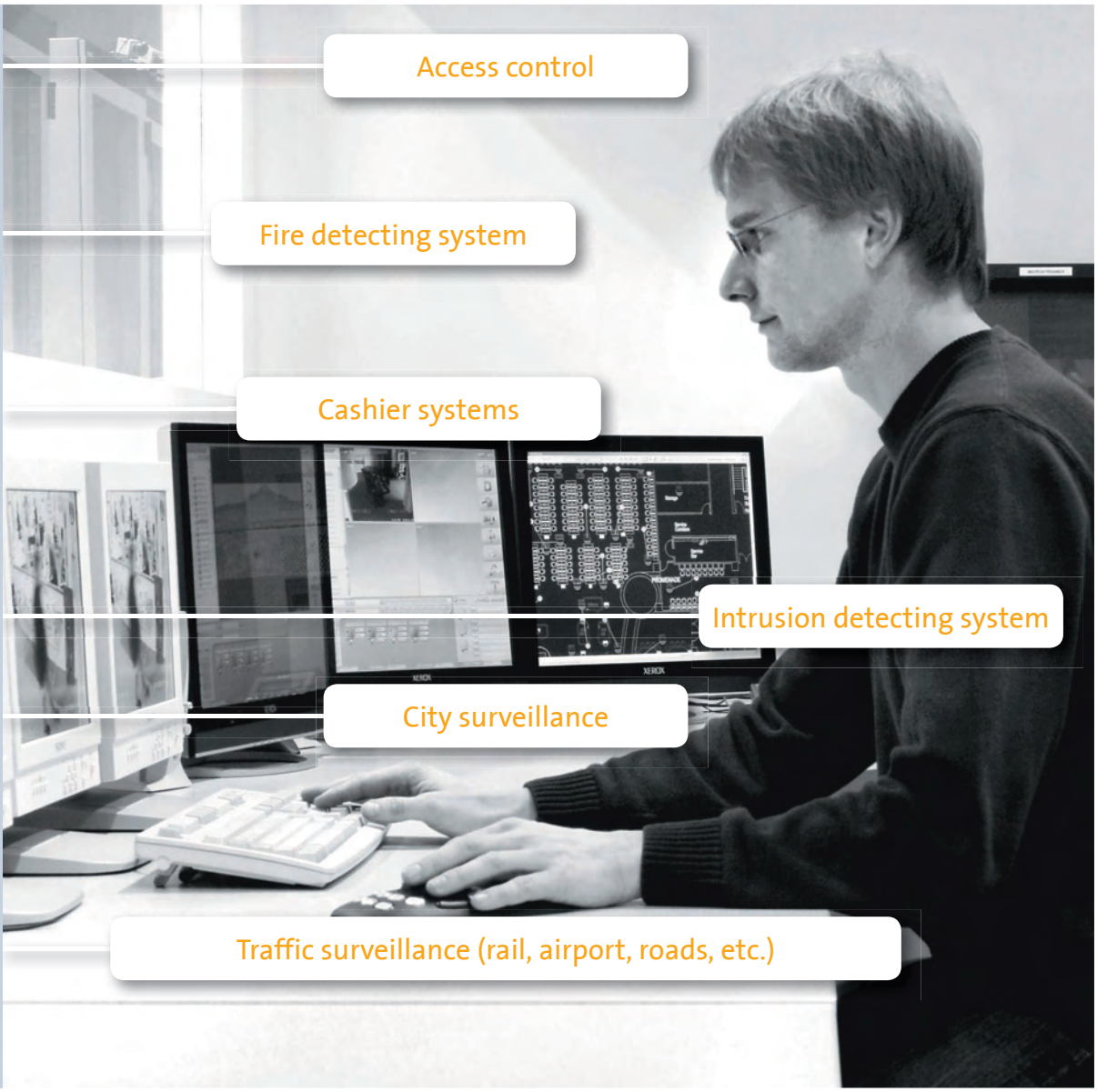
The Digital Matrix provides the basis for professional monitoring solutions in the security field. It includes a built-in full frame resolution matrix with real-time storage for each channel. So each can process a video and an audio signal as input (camera, microphone) and/or output (monitor, loudspeaker).

Dallmeier offers different software modules that can be selected and/or connected according to individual customer requirements and applications.

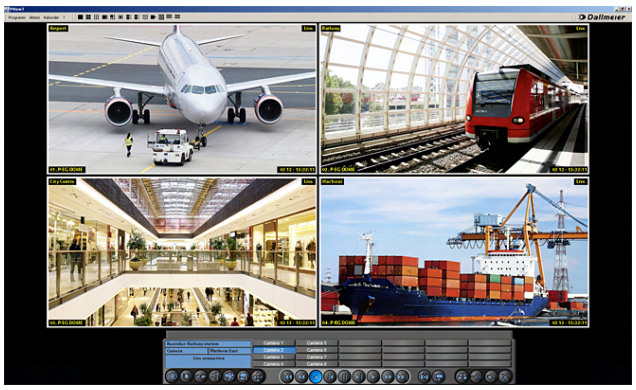
The SeMSy® management software is the absolute top product whose performance range can be adapted individually to customer and project requirements. Standardised OPC interfaces are integrated and assure that sub systems (access control, intrusion detection, fire detection, etc.) can be integrated straightforward so that the user is supported efficiently by functional synergies.

Let our experts consult you for your human-technical interface.

OPC



PView 7



The new HD-ready software PView 7 provides you with a functional control instrument for one or more recorders. PView 7 provides many useful features and functions for video image display in the user area as well as the administration. All the digital recorder's important user options can be accessed via LAN/WAN. PView 7 therefore not only enables recorder configuration and management over the network but also extensive interrogation of current or recorded data. Live picture transmission, backup, virtual tours or synchronisation are just some of the functions which make it easy to monitor with PView 7 software. It is possible to trigger message display in the PView window through PGuard advance (central evaluation and management software for messages). The search and filter criteria set up on the recorder can be called up and used through PView 7. User-friendly functions ensure convenient operation. A variety of different picture compression processes and transmission codings (H.264, MPEG-4, H.261, Wavelet, MPEG-2, JPEG) for live and archived pictures can be decoded. It also guarantees compatibility to all the rest of the Dallmeier product range. Within the Dallmeier video management system (PView 7, PGuard advance) PView 7 takes the important role of central managing element. The PView 7 software can be installed on standard commercial PCs (Dual Core systems) or on the Dallmeier evaluation stations.

- Full HDTV
- 16:9 image format
- Integration of PRemote: Smooth transmission of images, splits etc. with a bandwidth of as low as 64 KB (UMTS stick)
- Joystick control
- EasyZoom: Digital zooming in the image possible
- Display of third-party IP cameras
- Support of matrix functionality
- Management software for camera control
- Fast access to menu functions via hot keys (shortcuts)
- Variable display formats up to 32x split
- Encrypted protocol for all actions
- Virtual tours
- Fast search possibilities
- Automatic loading of presets when program starts

Variants	
200.018.001	PView 7 1 user licence dongle protected (USB-dongle)
200.018.002	PView 7 2 user licence dongle protected (USB-dongle)
200.018.004	PView 7 4 user licence dongle protected (USB-dongle)

PViewMobile

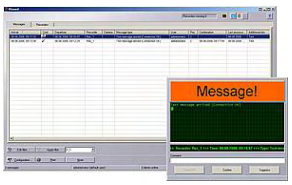
Once your PDA is connected to the Dallmeier recorder, the PViewMobile software ensures that pictures from all cameras connected to the recorder are displayed immediately. Even multi-picture splits are no problem; you can control dome and PTZ cameras wherever you are and the recorder relays can be switched remotely. Full playback functionality is included. To guarantee optimal picture quality and fluent display, you can set automatic or manual presets to suit the connection mode (UMTS/WLAN/GPRS) or bandwidth. The PViewMobile software is available for cost-free download in the Dallmeier Partner Forum under “Software Updates”. In order to be able to use PViewMobile the activations “PDA” and “PRemote advance”, which are subject to a charge, are required for the respective recorder (for Wavelet recorders “PRemote" is required respectively).

The PDA must meet the following requirements:

- Operating system: Windows Mobile 2003 SE or Windows Mobile 5.0
- Display: 240 x 320 or 480 x 640
- Available RAM: Min. 32 MB

Variants	
200.014	PViewMobile (free of charge)

PGuard advance



PGuard advance is a central evaluation and management software for messages (status, event, error) from one or more Dallmeier recorders, decoders, streamers or MicroStreamers. With PGuard advance it is possible to select from various types of messages certain messages to be displayed in a window together with an acoustical warning. Filter criteria (e.g the time period, the number of recorders that shall be displayed) can also be selected. PGuard advance can be operated as a single-user solution in the server version. An extension to a multi-user solution in a LAN is always feasible with several PGuard advance clients. In this case, server and clients access the server based MySQL* database together and simultaneously. Thereby processing status and data are being actualised in real-time. The configuration of the total system can be conducted centrally, quickly and easily. All settings can be transferred to the clients after server configuration. Then the single client settings can be adopted individually (relevant recorders, message priority, triggered actions, etc.)

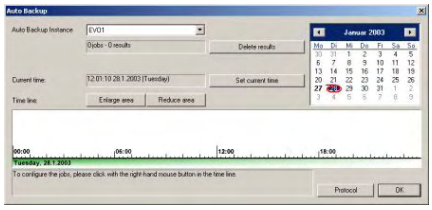
Advantages PGuard advance:

- Standalone or server/client installation
- Recommended for up to 10 clients
- Integrated MySQL database
- Recommended for up to 10,0000 messages
- Centrally, fast and simple configuration
- Individual and versatile client adjustment
- Recorder monitoring
- Client monitoring
- Licensing with DDS (Dallmeier Dongle Server)

Variants

200.031	PGuard software advance 1x licence dongle protected (serial/parallel or USB dongle)
200.032	PGuard software advance 2x user licence dongle protected (serial/parallel or USB dongle)
200.033	PGuard software advance 4x user licence dongle protected (serial/parallel or USB dongle)

AutoBackup



The AutoBackup module is used for automatic copying of recorded data on a defined server in the network. Copying is scheduled according to a certain timetable (e.g. daily at 1:00). Therefore the video surveillance system disposes of a nearly unlimited archive. The software PView AutoBackup is an extension of the control and surveillance software PView.

Advantages AutoBackup:

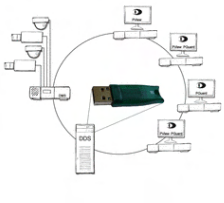
- Supplementary password for users
- Easy user interface
- The large archive is distributed into individual files
- Automatic error correction via archive transmission in the network

Important note: This product is sold exclusively to partners and system integrators who have participated in the 1-day Dallmeier software training course. Please also obtain information online in the Dallmeier Partner Forum.

Variants

200.216	AutoBackup Single licence Only applicable with a PView software and only for systems up the 3rd generation Please inform us about the dongle-no. of the PView software
200.225	AutoBackup 2 user licence Only applicable with a PView software and only for systems 3rd generation Please inform us about the dongle-no. of the PView software
200.226	AutoBackup 4 user licence Only applicable with a PView software and for systems up the 3rd generation Please inform us about the dongle-no. of the PView software

Dallmeier Dongle Server



DDS (Dallmeier Dongle Server) is a central licensing software for Dallmeier PView 7 and PGuard advance in a LAN. DDS is installed on one PC of the multi-user solution in the LAN. In combination with one appropriate licence dongle up to 255 PView 7 and PGuard advance installations can be licensed and operated flexibly. DDS can be installed quickly and easily. Except for the licence key entry at the PView 7 and PGuard advance installations normally no more configurations have to be made.

- Operating system Windows XP SP 2 / Vista
- Once-only and simple installation
- No configuration required
- No hidden files
- No recourse to registry
- No installation or configuration on the client
- Licensing of up to 255 PViews and PGuards
- Flexible licence management

Variants

200.016.010	Server dongle 10x user licence PView 7 / PGuard advance 1x server dongle
200.016.020	Server dongle 20x user licence PView 7 / PGuard advance 1x server dongle
200.016.030	Server dongle 30x user licence PView 7 / PGuard advance 1x server dongle

SeMSy®

For large integrated systems, as they may appear for example in casinos, airports, railway stations or for city surveillance, Dallmeier offers an innovative and future-proof CCTV/IP solution with optimum user friendliness: the SeMSy® Pro II video management system of the virtual matrix. SeMSy® (Security Management System) enables convenient use and management of various media data streams and also provides live playback and recording of video and audio data anywhere within the networked system.

Operation
The complete system is operated through a professional and highly efficient management system. Operating procedures and complex control processes can be stored in the system so that staff can conveniently and intuitively operate the system. The graphic user interface provides every user with a quick overview of the cameras and the corresponding monitors via a graphic display, enabling a fast and intuitive operation.

Evaluation
A graphic user interface at the control centre allows for the evaluation of the recorded images. Additionally, playback can be controlled using an external jog-shuttle (for instance the VMC-1) and it is also possible to export the recorded data to CDs or DVDs at the evaluation station.

Flexibility
The management system is based on standardised interfaces (such as OPC) in order to allow the easy integration of further systems like access control or facility management. Additional system storage devices can easily be integrated at any time. Further decoders, which may be equipped with extra monitors, can be added at a later stage.

Client-server concept and redundancy
Each SeMSy® server administrates up to 1,500 channels/cameras. All SeMSy® workstations communicate directly with the SeMSy® servers. The system configuration and the relevant database are installed on the SeMSy® Pro II Configuration Server. The respective assigned SeMSy® Server Standby takes over administration of the up to 1,500 matrix elements (decoders and encoders) in case a SeMSy® server should fail. The SeMSy® workstation uses the locally mirrored database in order to ensure a continuous operation (e.g. camera switching, PTZ control etc.) if both servers should fail.

With SeMSy® Professional it is easy to realise a matrix functionality via an IP based network.

Decoders provide playback and live display functions on one or more local monitors at the control centre. The integrated PView software allows for the local playback or live viewing of selected cameras at PC workstations.

Through the control software at the management PC the operator can conveniently control all functions of the matrix and view individual cameras and recordings on the monitors. Using SeMSy® Pro II it is also possible to integrate graphic system extensions and design own user interfaces, including, for example, site plans (SeMSy® Pro II Extension Maps).

Features

- Switching of any camera (video input) onto any monitor (video output) of all the devices connected to the system (live display and playback)
- PTZ cameras can be controlled via the operator station (PTZ control, fixed positions, camera configuration)
- Processing of alarm messages
- Group switching (Salvos)
- Audio function – synchronous processing of every video signal and the corresponding audio signal
- Search functions (time, date, index)
- Integration of site plans for camera selection
- Redundant recording
- Control via external devices (keyboard, jog-shuttle)

SeMSy® Open Interface Connection

The SeMSy® Open Interface Connection serves the integration of third-party systems such as cash registers (MICROS*), access control systems (MAXXESS) or point of sale systems (PoS). In addition, interfaces with game management systems (Angel Eye) and the connection to gambling machines (e.g. IGT) are possible. For any given application, SeMSy® Open Interface Connection consists of a hardware and software component as well as a customised performance.

- Hardware component: SeMSy® DataBaseEngine [1)]
- Software component: SeMSy® DataBaseLogic [1)]
- Integrated My SQL data base [1)]
- Customised interface adaption

1) All three components (hardware component, software component and customised performance) must be ordered separately.

Variants

---.---.---	Customised interface adjustment for SeMSy® DataBase (Price only on request)
200.206	DataBaseLogic + SQL-Data Bank
200.215.1	DataBaseEngine IV

SeMSy® Pro II Extension Maps

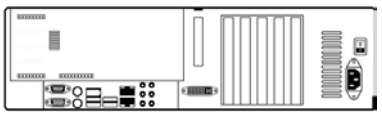
With SeMSy® Pro II Extension Maps software the CCTV cameras that are integrated into the system can be displayed on a ground plan. Via that ground plan the cameras can be activated and displayed. Furthermore, an easy-to-use import function for the automatic assignment of the camera IDs to the numbers (layers) on the ground plan is available. Additionally, freely placeable camera symbols can be used to precisely indicate further camera locations on the site plans.

- Expansion of the SeMSy® Pro II software by camera selection function via site plans
- Easy integration of site plans (e.g. import of AutoCAD* data) into the SeMSy® system
- A simple click on the camera symbol activates the camera on the selected monitor
- Zoom and panning functionality allow for easy navigation

Variants

201.452	SeMSy® Pro II Extension Maps 1x licence

SeMSy® S-PC Plus



The SeMSy® S-PC Plus is a stand-alone evaluation and management station. SeMSy® S-PC Plus enables a smooth video display with high image quality in up to 14 independent splits. All necessary hardware and software is already installed and pre-configured.

- Simultaneous processing of up to 14 channels: Recording clip, decoding, live display and playback
- Video compression: H.264, MPEG-2/-4, MJPEG
- Audio compression: MPEG-1 Layer 2, G.722
- Resolution: SD, HD (720p, 1080i, 1080p), up to 8 MP
- Frame rate up to 25 fps at D1
- Integrated analyse software: PView 7
- Software protected through USB dongle
- Internal hard disks: up to 3 x 3,5" HDDs
- Integrated DVD+RW/DL drive
- DIN EN 50130-4 compliant

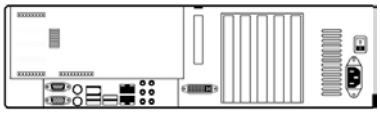
Variants

300.305.1.000.0	SeMSy® S-PC Plus without HDDs Please note: At least one HDD must be ordered together with the device (for operating system and recording). You can access two additional HDDs to increase storage capacity!

Options

000.194	19" bracket, for a 3 HU single device
200.031	PGuard software advance, 1x licence dongle protected (serial/parallel or USB dongle)
200.032	PGuard software advance, 2x user licence dongle protected (serial/parallel or USB dongle)
200.033	PGuard software advance, 4x user licence dongle protected (serial/parallel or USB dongle)
200.120	Graphics card for 2x further DVI / VGA interfaces
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3 HU (5 pieces)
100.030	FC interface (fiber optic), for connecting DAS-303 (see storage systems), only ex factory
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

SeMSy® Pro II Workstation Plus



The SeMSy® Pro II Workstation Plus provides via the SeMSy® GUI the full control of the surveillance system including the control of virtual matrices. All necessary hardware and software is already installed and pre-configured.

- Simultaneous processing of unlimited video channels
- Backup of videos
- Playback of recorded and backed videos
- Integrated time search
- Video compression: H.264, MPEG-2/-4, MJPEG
- Audio compression: MPEG-1 Layer 2, G.722
- Resolution: SD, HD (720p, 1080i, 1080p), up to 8 MP
- Frame rate up to 25 fps at D1
- Integrated SeMSy® OPC-client software
- Integrated evaluation software: SeMSy® Pro II GUI and PView 7
- Optional Software: SeMSy® backup client, SeMSy® Extension Maps, PGuard
- Software protected through USB dongle
- Optional integration of VMC-1 (Video Management Centre)
- Internal hard disks: up to 3x 3,5" HDDs
- Integrated DVD+RW/DL drive
- DIN EN 50130-4 compliant
- The use of 2x SeMSy® Pro II Workstations Plus also requires the use of SeMSy® Pro II Server Plus

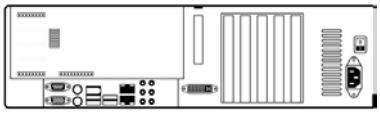
Variants

201.447.1.000.0	SeMSy® Pro II Workstation Plus without HDDs Please note: At least one HDD must be ordered together with the device (for operating system and recording). You can access two additional HDDs to increase storage capacity!

Options

000.194	19" bracket, for a 3HU single device
129.304	VMC-1 (Video Management Centre)
200.120	Graphics card for 2x further DVI / VGA interfaces
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
201.451	SeMSy® Backup-client software, 1x Licence
201.452	SeMSy® Pro II Extension Maps software, 1x licence
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

SeMSy® Pro II Server Plus



The SeMSy® Pro II Server Plus manages all statuses, streams and connections of the surveillance system including the management of virtual matrices. All necessary software licences are already installed and pre-configured.

- Simultaneous processing of up to 1,500 video channels per 1x SeMSy® Pro II Server Plus [1)]
- Cascadable for an unlimited number of video channels
- Internal hard disks: up to 3x 3,5" HDDs
- Integrated DVD+RW/DL drive
- DIN EN 50130-4 compliant

1) For every 1500x channels is 1x SeMSy® Pro II Server Plus required

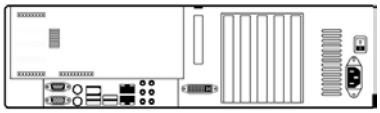
Variants

201.448.1.000.0	SeMSy® Pro II Server Plus with 1x 500 GB HDD Please note: At least one HDD must be ordered together with the device (for operating system and recording). You can access two additional HDDs to increase storage capacity!

Options

000.194	19" bracket, for a 3HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

SeMSy® Pro II Backup Server Plus



SeMSy® Pro II Backup Server Plus provides the backup functionality and the storage of the backed videos. All necessary hardware and software is already installed and pre-configured.

- Integrated SeMSy® Backup-server software
- Integrated My SQL Database
- Software protected through USB dongle
- Internal hard disks: up to 3 x 3,5" HDDs
- FC interface (fiber optic) for connecting the storage system DAS-303 optionally available
- Integrated DVD+RW/DL drive
- DIN EN 50130-4 compliant
- Requires SeMSy® archiving-client software on the SeMSy® Pro II workstations Plus

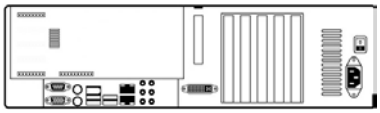
Variants

201.450.1.000.0	SeMSy® Pro II Backup Server Plus without HDDs Please note: At least one HDD must be ordered together with the device (for operating system and recording). You can access two additional HDDs to increase storage capacity!

Options

000.194	19" bracket, for a 3HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3HU (5 pieces)
100.030	FC interface (fiber optic), for connecting DAS-303 (see storage systems), only ex factory
100.100.050.12	500 GB hard disk
100.100.075.12	750 GB hard disk
100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

SeMSy® Pro II Setup-Server Plus



The SeMSy® Pro II Setup-Server Plus stores the main data base of the virtual matrix and provides those information to any SeMSy® component: SeMSy® Server or SeMSy® Operating Station. All necessary hardware and software is already installed and pre-configured.

- Integrated My SQL-Database
- Integrated time server software
- Internal hard disks: up to 3 x 3,5" HDDs
- Integrated DVD+RW/DL drive
- DIN EN 50130-4 compliant

Variants

201.449.1.000.0	SeMSy® Pro II Setup-Server Plus without HDDs Please note: At least one HDD must be ordered together with the device (for operating system and recording). You can access two additional HDDs to increase storage capacity!

Options

000.194	19" bracket, for a 3 HU single device
200.128FS	Internal RAID 1, 2x HDDs with the same capacity required (only ex factory)
200.337	Filter pad, 3 HU (5 pieces)
100.100.050.12	500 GB hard disk
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100.100.100.12	1000 GB hard disk
100.100.200.12	2000 GB hard disk
100.900.01	Installation of a HDD, incl. function, long-term-, and final test; acceptance and approval
100.900.02	Preparation for connection of external storage systems (e.g. DAS-303), incl. storage function, hardware interface, interface function test. Please note: Hard disks and installation of HDDs respectively must be ordered separately.

LAN switch

- Network control and bandwith optimization
- Network security through a wide range of authentication methods
- Easy network configuration, upgrades and troubleshooting
- 16 Gbps switching fabric
- Configurable up to 8000 MAC addresses
- Configurable up to 255 IGMP groupes
- Two variants available with either 24x or 48x Ethernet 10/100 ports and additional 2x Ethernet 10/100/1000 uplink ports
- RJ45 connectors
- LAN switch 24/2 (switch power: 28 W, heat power: 93 BTU/h) 1)
- LAN switch 48/2 (switch power: 42 W, heat power: 141 BTU/h) 1)
- LAN switch 24/2 PoE (switch power: 433 W, PoE power: 370 W, heat power: 175 BTU/h) 2)
- LAN switch 48/4 PoE (switch power: 483 W, PoE power: 357 W, heat power: 171 BTU/h) 2)

1) Measured with 100% throughput power consumption

2) Measured with 100% throughput power consumption and maximum possible PoE loads

Variants

201.016	LAN switch 48/2 48x Ethernet 10/100 ports 2x fixed Ethernet 10/100/1000 uplink ports
201.021	LAN-Switch 24/2 PoE 24x Ethernet 10/100 ports with PoE 2x dual purpose Ethernet 10/100/1000 ports

Backbone LAN switch

- Network control and bandwith optimization
- Network security through a wide range of authentication methods
- Easy network configuration, upgrades and troubleshooting
- 32 Gbps switching fabric
- Configurable up to 12,000 MAC addresses
- Configurable up to 11,000 unicast routes
- Configurable up to 1000 IGMP groupes
- Two variants available with either 24x or 48x Ethernet 10/100/1000 ports and additional 4x SFP-based Gigabit Ethernet ports
- RJ45 connectors
- Backbone LAN switch 24/4 (switch power:74 W, heat power: 249 BTU/h) 1)
- Backbone LAN switch 48/4 (switch power: 124 W, heat power: 422 BTU/h) 1)

1) Measured with 100% throughput power consumption

Variants

201.017	Backbone LAN switch 48/4 48x Ethernet 10/100 ports 4x SFP-based Gigabit Ethernet ports
201.018	Backbone LAN switch 24/4 24x Ethernet 10/100/1000 ports 4x SFP-based Gigabit Ethernet ports
201.020	Backbone LAN switch 48/4 PoE 48x Ethernet 10/100/1000 ports with PoE 4x SFP-based Gigabit Ethernet ports

Port

Sea and inland ports: Process optimisation through video security technology

Sea and inland ports are important transportation hubs for international commodity trading. Giant container ships lay anchor and discharge their shipments, waiting to put out to sea again with new cargo. Video cameras distributed across the area monitor all activities around the clock. Regensburg based CCTV/IP expert Dallmeier also offers tailored solutions for ports.

Nowadays, the range of applications for video security technology is no longer limited to traditional security tasks such as the detection of unwanted intruders or even the prevention of terrorist attacks. Video surveillance has meanwhile become an indispensable tool to design all processes across the port area as efficiently as possible. This includes access controls, the prevention of accidents at sluices and the administration of the commodity flows throughout the harbour. One thing certainly applies to ports: Time is money, and whenever the stream of goods comes to a halt for some reason or time-consuming searches must be carried out to find lost shipments, cash money is at stake.

Access control

Whether by land or by water: The port area may only be accessed by authorised personnel. High-resolution Cam_inPIX® cameras therefore detect everybody who enters the premises and document the ship traffic as well as the movements of people and vehicles at the port's gateways. Often, the CCTV/IP system is complemented by intelligent video analysis systems which automatically carry out certain processes such as opening barriers or issuing alarms in cases where unidentified vehicles or ships are noticed.

One of those systems is the DI-Detector NPR (Number Plate Recognition), an intelligent video analysis system which uses intelligent sensors and advanced hard- and software technology to identify the number plates of stationary and moving vehicles. Provided the system installation was carried out professionally, the evaluation precision is up to 98%, even with adverse weather conditions or darkness.

In order to make the access controls as safe, but also as fast and efficient as possible, the number plates of authorised vehicles are entered into a database. When a car or truck approaches the control post, the database is searched for registered number plates. If a number plate is recognised, a relay contact issues a clearance to the system and the barrier opens. Other application possibilities are virtually unrestricted. The DI-Detector NPR could also, for instance, trigger a recorder that will monitor the access road for a certain period of time. That way, known vehicles of suppliers would always be monitored while driving along the lane but would also be able to reach their destinations quickly without having to go through time-consuming controls. Also, cameras can be installed at the gateways of the carriers and be connected to the system. Should a vehicle not have reached its destination some time after passing through the access gate an alarm could be generated using PGuard advance, a Dallmeier software for the administration of incoming messages.

Theft protection

Numerous goods and containers are stored at the port's reloading points, and they all have to be protected from theft. With the DI-Detector Intruder, Dallmeier offers a first class solution for securing certain areas against unauthorised access. The DI-Detector Intruder is a development entirely based on the SEDOR® technology and allows for an effective surveillance both outdoors and indoors.

The system determines for example if an object approaches an area, from which direction it is coming, or how long it stays in a certain area. Based on the carried out classification, the system is able to differentiate between an object "person" and for instance, object “animal”. Comprehensive validity checks reduce false alarms to a minimum without missing "real" alarm messages.

Tracking of commodities

Unfortunately it is impossible to completely eliminate cases of damaged goods, loading errors or other kinds of loss during the distribution of goods at freight hubs. However, using a high-value video surveillance the movements of every single container can be documented completely. Misguided goods can quickly be found again and the system also helps in conclusively proving transport damages. Disputable situations, which might for example arise when trying to determine when the damage occurred and who was responsible, can be resolved definitively and without the need for time-consuming investigations. Therefore, payments of damages can be allocated to the responsible individuals.

The goods are scanned at the entrance, continuously tracked while passing through the freight hubs and again electronically registered before going out. Additionally, every scanning process is recorded by a camera. The ideal solution for that application are high-resolution cameras with Cam_inPIX® technology. They provide detailed and true-colour images, even under the most difficult lighting conditions such as extreme backlighting at the gateways to the storage halls.

The scan data are recorded together with the pictures in the digital recording system so that the pictures and package data can later be matched up. The barcode for each package can then be used to identify and trace the item through the warehouse. This allows not only individual packages but also whole pallet loads of assembled packages to be monitored as they progress through the warehouse.

Preventing accidents or pile-ups

Whether at sluices, quay walls, storage areas or access roads; wherever traffic comes to a standstill the loading of goods slows down as well. In that context, video systems offer the possibility to react immediately in case of conspicuous events. Such events include accidents, developing congestions, or parking offenders blocking the flow of traffic. Thereby, the system has two main advantages: For one thing, automatic alarm messages can specifically direct the attention of the security personnel to certain areas. Without that support it would hardly be possible to monitor the port area twenty-four hours a day. Secondly, thanks to the video recordings security staff can, in the true sense of the word, immediately visualise what is happening on the ground and react accordingly.

Integration possibilities

The surveillance of port areas is very complex. The biggest benefit is realised when all systems are intertwined and linked up. Every Dallmeier CCTV/IP solution is therefore designed to be able to serve as an open platform for third-party integration.

From cameras to recorders and storage systems right up to video management, all Dallmeier products can be integrated into any kind of third-party systems (overriding property management systems, access controls, fire detection systems etc). Likewise third-party systems or individual components can of course be integrated into existing Dallmeier solutions. The integration process is carried out by using either standard or customised communication protocols, so-called "Open Platform Tools", or else through tools that are specifically developed for the customer.

Therefore, the security systems remain open for adjustments and expansions and offers long-term investment protection.

Mine

Dallmeier CCTV/IP solutions for the mining industry

Diamonds, platinum, gold – not only women's hearts leap for joy on hearing these words. It is a long way, however, before the treasures from deep beneath the earth finally reach customers worldwide. It all starts in the numerous mines around the globe. State-of-the-art video security technology by Dallmeier is used to watch over the mined natural resources at all times.

Gold, platinum and diamond mines could not be operated without video security technology. Its main purpose is to prevent losses during the mining process and the sorting procedure. CCTV also proves highly useful in regard to health and safety at work or the investigation of damage events.

Highest security in the red area

The most secured area within a mine is the so-called red area. This is where the mined material is sorted. Unfortunately, workers often line their own pockets, and they are very inventive in doing so. One popular trick, for example, is to swallow the precious materials. The workers' hands move so fast that the motions can hardly be spotted with the eye. Often, the relevant video recording is the only way to prove a theft by viewing the individual images.

This illustrates how strict the requirements regarding video surveillance in this context are. The cameras must produce high-quality and detailed images. On the other hand, it is crucial that the recording devices record with a high frame-rate and highest failure safety. On top of that, large machinery and numerous floodlights mostly create difficult lighting conditions.

The DDF3000AV4 by Dallmeier is a high-resolution UWDR colour mini dome which is able to cope with the difficult conditions in mines. Through its innovative Cam_inPIX® technology, whereby each pixel chooses its own exposure time, the camera provides clear and detailed images without any blooming or smearing, even against backlighting and under constantly changing lighting conditions. Furthermore, the DDF3000AV4 is vandalism-protected and hence extremely robust and resistant.

Continuous recording must be ensured throughout the "red area". In order to guarantee the high availability of the recording, Dallmeier banks on the highly available storage directly at the encoder. In this case a DIS-2/M UTP, a modular one-channel recording and transmission system in 19" rack slide-in design. The recording is network-independent and continues even in the event of malfunctions or a complete network failure. So as to further increase failure safety a mirrored recording on site is possible. In combination with the Dallmeier storage systems (DAS-303) it is possible to increase the security of the complete system, for instance through a threefold recording.

Apart from its reliability, the DIS-2/M also convinces through its high image quality, for the recording takes place in real-time and broadcast quality (MPEG-2/MPEG-4) i.e. with 25 fps at PAL resolution (30 fps with NTSC).

Suitable solutions for all areas: Search Lanes

Dallmeier offers suitable products to monitor the entire mining operation. Most mines have strict access regulations and procedures to curb losses, of both product and materials of value. Passing to and from sensitive areas mine workers have to go through random searches, all these search lanes are monitored by high-resolution cameras, whereby high-quality audio recordings are also made. This is done in order to monitor the search processes and identify any collusion between the security personnel and the mine workers.

Process Monitoring

Furthermore CCTV is widely used in monitoring the various processes in the refinery area. This area is hazardous and requires an eye on the operation should any problems occur from an automation point of view. Typical applications include furnaces, conveyor belts and grinding machinery.

Mining Perimeters

Owing to its open and flexible system architecture Dallmeier systems can easily be integrated into third-party systems. A major area of concern in the mining industry is the effective monitoring of the perimeter fences. Dallmeier products seamlessly integrate with all major early warning intrusion systems deployed on perimeters such as kinetic systems, fibre intrusion detection and electric fences.

Anyone entering the outdoor area of the mine, the so-called “green area” is already watched by cameras. In that area the focus is on a general surveillance whereby faces must be clearly identifiable. For this purpose, however, a recording with one or two frames per second will usually be sufficient. In the pre-sorting area the precious materials are already present, although in a rough form and not obvious yet. There, the recording is normally linked to the access control system, which means that the recording only starts when someone enters the area. The access data of the person are subsequently linked with the video image so that the security personnel always have the personal data as well as the image at hand. Thereby, the integration of the access control into the video security system is no problem. Owing to its open and flexible system architecture Dallmeier systems can easily be integrated into overriding management systems. The same applies to the integration of third-party systems into a Dallmeier installation.

Safety at work and confirmability of damage events

Using state-of-the-art video security technology, it is easy to monitor whether safety regulations at work are adhered to. It can be quickly checked, for example, if all employees who work with high-temperature machinery, always wear the mandatory garments.

Moreover, very expensive, high-performance machines are used in mines. In the case of an accident such as an explosion, the recorded image data allow for a fast and straightforward investigation of the cause of the malfunction.

Apropos: Video surveillance in mines is never conducted secretly. Anybody entering a mine is made aware of the surveillance and gives his or her written consent.

Perfectly secured

It is not unusual for a mine to operate more than one thousand cameras. Trained security personnel are permanently monitoring the images. In order to prevent workers from teaming up with security operators so as to be able to bypass the security measures, the security centre is generally divided into different organisational levels. They in turn check on each other, according to the four-eye-principle.

With the Dallmeier recording devices it is possible to set up different, password-protected access levels. This possibility accounts for the complex controlling tasks in mines and ensures that every security operator has the access rights necessary to perform his or her duties.

Future-ready

An exchange of existing systems or a migration to an IP solution can also be made gradually so that the video security system can be adjusted to individual requirements and available budgets. At customer's request, a new system can be operated alongside the existing installation in order to train operators on the novel system. During the commissioning of a new system, it is ensured that the continuous recording carries on without interruptions.

Owing to their modular and flexible design Dallmeier systems can be kept up-to-date for many years and thus offer a high level of investment protection.

Amusement park

Dallmeier CCTV/IP Solutions for amusement parks

Spectacular rides, exciting shows and extraordinary events – anyone who visits an amusement park is mainly looking for fun, relaxation and thrills. But most importantly: Visitors want to be able to enjoy the numerous attractions without having to worry about their safety and security. Modern video security systems have therefore become an indispensable tool for theme parks. Once the CCTV/IP system is installed, a host of other possible applications emerges, going beyond purely security-related purposes.

For any amusement park in the world the top priority is to create a secure environment so that families can feel comfortable and enjoy their trips. That is why high-value cameras monitor car parks, entrances, rides, or shops and souvenir stands in particular. Recordings from any person entering or leaving the park are digitally recorded and can be played back at any time.

The main reason for installing cameras at the entrances is a scenario any theme park operator is likely to be afraid of: child abduction. However, visible installation of cameras and the knowledge that there is a video surveillance system is mostly sufficient to repel potential kidnappers.

Purse snatchers or thieves who might want to "help themselves" in the theme park's shops or steal from the parked cars of visitors have no luck thanks to modern video security technology. Provided that the suitable technology was chosen, high-value cameras are nowadays able to produce detailed and true-colour images, even with difficult lighting situations such as strong backlighting. Dallmeier uses a proprietary development for its cameras, the so-called Cam_inPIX® technology. It is based on the most up-to-date "Digital Pixel System*" platform. With this technology, the picture information of each individual pixel is converted digitally at the point of capture and processed in the most optimal way. Therefore, even situations with a great range in contrast can be recorded and documented in previously unseen picture quality.

Financial benefit

Apart from enhanced security, amusement parks will often experience significant financial benefits by using high-value surveillance systems, which means that the investment amortises quickly. One example is video surveillance putting a stop to ticket fraud.

Ryan Brady, Chief Operating Officer with Legoland UK, explains: "Some visitors try to pass their annual tickets on to friends and relatives, even when they know that it's forbidden. Our staff are therefore particularly vigilant with persons who are acting suspiciously."

Should the suspicion be confirmed the security personnel will contact the rightful owner. Brady continues: "In most cases the owner claims to have lost the ticket or that it had been stolen. However, once we confront the owners with the video recordings and threaten to report the incident to the police, they quickly change their minds and tell the truth. They admit to having given the ticket to a friend or relative and say that they do not want them to be arrested." That gets around and Brady is very satisfied with the result. "We have been using a highly efficient video security system by Dallmeier for a few years and the fraudulent use of annual tickets has decreased significantly."

Recording of shows and events

Spectacular shows and events are also in most cases recorded by surveillance cameras. The recordings can be used for advertising purposes, pointing out the attractivity of the shows. Additionally, they can be very useful for investigating incidents such as accidents. Thanks to the recordings the cause of an accident can subsequently be determined quickly and easily.

Valuable marketing hints

Intelligent video analysis systems contribute to making the visitors' stay even more pleasant and provide the theme park management with valuable information about the influx of visitors and the behaviour of the guests. What rides or shows are most liked? Which of the attractions are used less and thus have to be signposted more clearly or should be increasingly promoted? What are the peak times in terms of the number of visitors? Given that the park's management is furnished with sufficient information, it can use them for making decisions e.g. for human resource planning or creating special incentives or announcements that will help distributing visitors more evenly across the various attractions.

People Counting – Controlling the number of visitors

Another area of application is people counting, which involves counting how many visitors are on the theme park's premises at any time. For this kind of application, Dallmeier has developed the "DI-Detector People Counting", a video based detection and evaluation unit for counting people. Compared with traditional counting systems, for instance light barriers, the DI-Detector People Counting is capable of singularising persons, which significantly increases the counting accuracy. Using conventional light barriers would involve the possibility of counting errors such as two people passing through the barrier side by side being counted as only person.

Statistical evaluations allow the management to identify times with particularly high numbers of visitors coming to the park and adjust the personnel planning accordingly. In addition, the data can be used to specifically assess the effectiveness of marketing activities.

Other important potential applications for people counting are presented by the broad spectrum of security and safety related concerns. With people counting it is possible, for instance, to ensure that no more than the maximum number of visitors, as is prescribed by the safety codes of both the police and fire department, are on the park's grounds at any point in time. If the quantitative threshold should be reached, an automatic action can be carried out, such as an acoustical or optical alarm.

Object detection - Alerting staff in case of suspicious objects

With the help of modern sensor technology it is also possible to issue an alarm if any objects remain within a certain area for a predefined period of time. Especially in times of increased apprehension of terrorist attacks suitcases, for instance, which have been unattended for a longer period of time are detected by sensors. The systems can also prevent the blocking of escape routes, fire rescue paths or approach roads for ambulances by parked objects, which could have very serious consequences in case of an emergency.

Perfectly secure – even at night

Amusement parks can benefit from video security technology outside of their opening hours as well. Unwanted visitors, for example juveniles attempting to climb over a fence, need to be kept away from the premises at night, too. Intelligent video analysis systems like the Dallmeier DI-Detector Intruder are the ideal solutions for this kind of application as well. The system determines for example if an object approaches an area, from which direction it is coming, or how long it stays in a certain area. This means that intruders can be detected early on and an alarm can be triggered. Comprehensive validity checks reduce false alarms, which may be triggered by leaves swishing in the wind or animals, to a minimum without missing "real" alarm messages.

Reliability, scalability and ease of use

In choosing a suitable video security system one of the priority considerations should be the reliability and operational stability of the system. This is the only way to ensure that conclusive image material is available in an emergency. If the system additionally has the Kalagate certification, the recordings are permissible as evidence in courts of law.

The user-friendliness of the installation is another critical point. Intuitive menus, flexibility to adjust to individual requirements as well as easy maintenance and service should be taken into account before a purchase decision is made.

Last but not least, the scalability of the system should be considered. Dallmeier systems are modular in design and therefore can be easily expanded or upgraded to new technologies. The investments made are thus protected for many years and the customer can rest assured that the system is always state-of-the-art.

Hospital

Equal priorities: Disease control and security

Health is the most valuable possession. Still, even health care professionals working in hospitals have to deal with issues such as theft, disputes over possible malpractice or even the kidnapping of infants. CCTV/IP systems by Dallmeier are increasingly being used in order to prevent against recurrences of these crimes or at least enable a swift and cost-effective solution.

Perimeter protection

Surveillance systems are already used in perimeter protection: High-resolution cameras keep an eye on every corner and ensure that no unauthorized person enters the compound. In most cases, the system will be monitored by a gate keeper via the PView monitoring software which is very clear and easy to operate, which negates the requirement to employ additional security personnel. Additionally, if a number plate recognition system is connected to the CCTV system, the operation of barriers or traffic lights (i.e. in parking blocks or carriage gateways) can be controlled automatically.

Theft protection

Unfortunately, not all supposed 'visitors' come to the hospital to wish their loved ones a speedy recovery. The openly accessible and mostly unlocked rooms make it easy for potential thieves to steal clinic and/or patient property, which often causes significant financial losses for the hospital. In most cases detailed images from high-quality cameras in hallways, at emergency exits, near elevators or in the pay office, lead to a positive identification of the perpetrator. Using the SmartFinder, a system for the intelligent search for motion within pictures, the relevant image sequences can be found quickly and easily. Another advantage of Dallmeier recorders is the fact that the images recorded are accepted for evidential purposes in courts of law (Kalagate certification).

Security in the newborn nursery

Repeatedly, cases of children being kidnapped from newborn nurseries hit the headlines. In order to ensure that not only the newborn infants may doze peacefully but also their parents may sleep in peace, many hospitals employ video surveillance systems. Hence, nobody enters the baby ward unnoticed. The systems' flexibility allow for the monitoring system to be connected to an access control system so that no unauthorized persons gain access to the premises.

Malpractice or not?

Often in the aftermath of failed surgeries or complicated births, the question arises whether or not mistakes were made during the procedure. Any such disputes can be resolved quickly and conclusively thanks to advanced video surveillance. Digital recording systems are frequently being used during surgeries in order to be able to review the whole procedure at a later date. In compliance with sanitary regulations the recorder is not located in the operating theatre but usually in a separated room. Data protection is also guaranteed at all times. With regards to the pre-operation discussion, which must take place before every surgery, the patient is made aware of the possibility to record the surgery and then decides whether or not he or she wants to make use of it.

Furthermore, digital recording systems are being employed in another, highly sensitive field of medicine: Endoscopy. Endoscopy is a diagnostic procedure for the examination of orifices and hollow organs such as stomach, colon or trachea. Using this technology, the doctor is able to diagnose, and if necessary, immediately treat diseases without an invasive surgical procedure.

An endoscope is usually composed of a cold-light inspection lamp (so as to prevent the organs from damage due to heat) and a camera. The images are displayed on a monitor, which makes it significantly easier for the doctor to treat the patient since he is able to view clear and magnified images of the relevant organs. The images are simultaneously recorded onto a Dallmeier recorder. Firstly, doctors who were not present when the endoscopy was conducted can use the recordings for a later diagnosis. Secondly, the images serve as teaching material for prospective doctors.

Video surveillance saves lives

Especially in intensive care units, patients are mostly unable to communicate a deterioration of their condition to medical staff. Video surveillance enables staff to monitor patients 24/7 – for in an emergency it is the quick reaction of the treating physicians which determines a patient's chances to survive. In anesthetic recovery rooms the patients' conditions are also simply monitored from the nurses' room.

System requirements

The requirements for surveillance systems in hospitals are high: Reliability and failure safety, easy operation and control as well as flexibility and adaptability. Additionally, its recordings need to be accepted for evidential purposes in court. Many hospitals do not have the financial resources at their disposal, which are necessary to migrate immediately from analogue to digital recording. Therefore, Dallmeier offers the possibility to gradually adjust the system depending on the individual needs of each hospital. Also, owing to their flexibility, the systems can easily be expanded in the future.

Comprehensive surveillance mechanisms (e.g. dynamic fan control, monitoring of exterior and interior temperature, diagnosis of assembly groups, voltage control, etc.) ensure highest operational reliability and durability of the recorders. They also guarantee that medical staff are free to do what they do best – to take care exclusively of their patients.

Christian Bayer from Icb-Engineering Office Bayer is convinced: “The Dallmeier eecorders are highly reliable and the Linux-based operating system guarantees highest failure safety. Furthermore, all Dallmeier components are manufactured in-house. This means that even after six or eight years, replacement parts can be supplied without any problems. Last but not least, the entire product range is perfectly dovetailed.”

City surveillance

Dallmeier CCTV/IP solutions for urban areas

Protecting and safeguarding citizens is an increasing issue for towns and cities. Many communities round the world are already using modern CCTV/IP solutions from Dallmeier. Their requirements are varied but are always aimed at achieving an extensive, tailor-made all-round solution to meet the highest quality and security requirements. Besides excellent picture quality and easy operation, the number one demand is for compatible and flexible system architecture to enable easy integration into existing security management systems.

Situation

Deterring crime and vandalism as well as protecting against terrorism are the catch words which are becoming more and more important for town and community leaders. For monitoring public places analogue systems are increasingly being replaced by digital ones. This is in order to make the monitoring and evaluation of events and the necessary responses more reliable, faster and more efficient.

Virtual Matrix

Dallmeier's product range includes the latest solutions for almost every requirement in the field of CCTV monitoring. To ensure maximum security individual solutions are produced using the Virtual Matrix with multiple Intelligent Video Analysis Systems (e.g. NPR, object recognition, etc.). Dallmeier's Virtual Matrix enables the transmission and recording of video and audio signals in broadcast quality via an Ethernet/IP network. Using this technology in DIS units an unlimited number of cameras can monitor public places with their pictures recorded and if necessary sent via IP network. Owing to the MPEG-2/MPEG-4 compression used, the camera pictures are transmitted in real time, top quality and full picture rate. The system architecture also allows an easy control of PTZ cameras.

Pictures are recorded in a ring memory which is automatically over-written after a defined period (e.g. 14 days). Event analysis is very quick and efficient because of the use of customer-specific user interfaces, which are complemented with the most appropriate operating devices such as keyboards (e.g. PTZ control) or jog-shuttles (e.g. replay control).

Intelligent Video Analysis Systems support the monitoring tasks in various fields. These can classify objects and respond appropriately, triggering events when necessary (e.g. switching cameras, raising the alarm). With the help of NPR vehicles can be identified and the appropriate data be further processed (e.g. entry/exit authorisation in car parks).

Integration in higher level management systems

The pictures are analysed in specially equipped security and control rooms. How alarms are dealt with is carefully regulated between the control centre and the police to ensure that they are handled punctually and in a coordinated way. This requires flexible system design, so that the system can be expanded at any time and so that it is possible to add further alarm systems or integrate it into a higher level management system.

Hybrid solutions also possible

Thanks to Dallmeier's flexible system architecture, any existing analogue system can be replaced by digital on a step by step basis. This kind of hybrid solution enables the digital upgrading project to be carried out in several stages as determined by need and budget.

Positive resonance

Dallmeier systems have already proved themselves in many cities where the number of recorded offences in the monitored areas has been reduced significantly.

Areas of use:

Road and traffic monitoring:
- Crossings
- Tunnels
- Bridges
- Access roads

Public building protection:
- Perimeter monitoring
- Interior monitoring
- Access monitoring

Car parks, car park buildings:
- Access control (NPR)
- Parking floor surveillance
- Counting (occupied/vacant)
- Camera sabotage recognition

Public transport:
- Stations, underground railways (platform monitoring, object detection)
- Train/tram stops
- Passenger/footfall counting

Shopping centres, arcades, promenades, pedestrian precincts

Logistics

Dallmeier CCTV/IP solutions for logistics

Shipping goods quickly from Munich to Singapore is no longer a problem – international logistics companies make it easy. Not only do they have to protect expensive and fragile goods from theft and damage in transit but they also have to be able to ensure that human errors, such as loading errors, are fully documented. The reason being that resolving disputed damage claims is time-consuming and expensive.

But with Dallmeier Logistics Solutions problems like that are now a thing of the past!

Situation

In logistics company warehouses a proportion of the goods held and dispatched are high value items. A variety of different parcel delivery companies and carriers collect the goods and deliver them to dealers or end-users. Unfortunately it is impossible to completely eliminate cases of damaged goods, loading errors or other kinds of loss. And the disputes which do arise and are not resolved – where it could not be established who caused what damage – are laid at the logistics provider's door since he is responsible for any unresolved claims.

Keeping a close eye on the goods

Because of this, more and more transport companies are using modern CCTV systems from Dallmeier to prevent problems and to document the path taken by the goods up to the hand-over to the carrier. These enable any damage which is incurred on the way to be investigated and claims resolved quickly and economically.

To ensure smooth comprehensive documentation all goods are electronically registered as they enter the warehouse, completely traced during their way through the logistics centre and they are scanned again when they are handed over to the parcel company or carrier, when the liability for the goods is transferred to the onward transport provider.

Besides this data capture, each scanning action is also recorded by a high resolution colour camera. The scan data are recorded together with the pictures in the digital recording system so that the pictures and package data can later be amalgamated. The barcode for each package can then be used to identify and trace the item through the warehouse. This allows not only individual packages but also whole pallet loads of assembled packages to be monitored as they progress through the warehouse.

And it's not just at 'Goods in' and 'Goods out' that high performance CCTV/IP systems can assist in resolving contentious situations. Whenever an item is missing from its designated storage location the CCTV recording can be used to find it quickly.

High-resolution digital recording systems

The Dallmeier DVRs are particularly suitable recording systems for this environment, as they are excellent for complex CCTV/IP monitoring installations where several recording systems are run in the network and linked to external data sources. The integrated motion detection allows the recorder to only record if it registers movement. If an alarm is triggered then the picture data are stored separately. They can be stored not only in the recorder but also in external RAID systems. Large recording capacities are crucial since many customers only report the non-arrival of a package weeks later and the logics operator has to be able to easily track the route taken.

Finding lost items

When a loss (theft, damage, dispatch error) is reported then Dallmeier's review software PView comes into play. The programme establishes how and when the loss occurred from the package data. The search can be made according to a variety of criteria – package number, delivery number, time, etc. If the handling of a particular package is being investigated then clicking on a list brings up the desired camera picture together with a display of the pre-history on a split screen. This allows losses to be quickly and simply traced and verified without a tedious paper trail.

The software handles the backup of evidence, too: relevant footage is backed up onto the PView-Station's hard disk and can also be written to a CD or DVD. The ProcessViewer, Dallmeier's free viewing and preliminary editing software is automatically written to the CD alongside the footage to enable the exported pictures to be viewed on any commercial PC. The date, time, camera location, package data and picture number are all inserted into the pictures and any manipulation of the pictures becomes evident in the inserted text.

Increased storage capacity

Up to 100,000 scanning actions a day are not unusual for large logistics companies. The Dallmeier storage systems can be used for storing this enormous volume of data. Besides increasing the storage capacity, they also offer increased data protection against hard disk failure, since one hard disk can be configured as a hot spare over and above the RAID5 system. The built-in hot plug function also ensures that hard disks, power supplies and fans can be changed the system still running.

Easily integrated

A further advantage of the Dallmeier systems is that they can be easily integrated with the transport company's existing IT-supported security systems. The modular structure and flexibility are very attractive, allowing easy expansion and customisation to suit the user's every requirement – which is surely important, as globalisation is set to remain an important issue for years to come and will no doubt continue to entail new and more complex demands.

"A worthwhile investment"

The Dallmeier logistics solution pays for itself very quickly as the logistics provider Tech Data confirms, "We very soon established that the number of claims had fallen by 40 percent. On top of that the speedy resolution of 80 percent of contentious incidents has saved us both time and money."

Bank

Secure bank transactions – Dallmeier bank recorders with UVV-Kassen certification

Especially for universal banks and savings banks reliable surveillance systems are indispensable these days. Robberies, burglaries, cheque card fraud at ATMs or vandalism require swift reactions. Very often, video recordings are the only way to get on to the perpetrators.

The Dallmeier recorder range "bank" comprises compact digital recording systems whose certifications and specific system parameters as well as the specifically designed software make them ideal for bank applications. Like all Dallmeier systems, the bank recorders are highly stable and reliable devices. What characterises them in particular are the outstanding image quality and high operator convenience.

All recorders come with integrated UTC capability, which allows for the convenient configuration of Dallmeier cameras via the recorder interface, even during ongoing business. Naturally, this function is also available in remote operation via network. Additionally, the recorder configuration offers the possibility to insert so-called privacy zones within the picture, i.e. to mask out certain sections or black them out respectively (for example number pads for PINs).

Models for any requirements

The recorder range “bank” consists of the DLS 4 Bank as well as "In Memory of Leonardo" range including the DMS 80 Bank, DMS 160 Bank, DMS 240 Bank and DMS 240 HSR Bank. Therefore, an ideally suited model can be chosen for every application according to the individual specifications, e.g. the number of camera inputs or the desired storage capacity.

Certified for the use in banks

The BG test certificate “UVV-Kassen” guarantees the high quality standard of the digital recording devices required for the use in financial and credit institutions. The DIN EN 50130-4 states that the certified devices – in addition to the standards mentioned in the CE declaration of conformity – meet the increased requirements for interference resistance of system parts used in closed circuit television for security use. Moreover, all Dallmeier bank recorders have the Kalagate certificate, which means that the recorded images are admissable as evidence in court.

ATM activity survey

A special highlight of the bank recorders is the so-called ATM activity survey. Thereby, the recorder regularly checks if transactions take place at the ATM. The survey intervals can be set individually.

If no transactions take place during the defined interval the recorder issues a warning. This is done so as to prevent an accidental recording failure and to make sure that it does not go unnoticed if it happens. Such failures frequently occur due to changes of ATM protocols. The ATM activity survey ensures that in case of need no important data is missing.

Optimal integratability

The various configuration variants of the bank-specific software allow for an optimal configuration of the recorder for various applications in the cashier's office, the bank vault and the foyer. The integration of external data, for example from ATMs, cash tills or access control systems is optionally possible via the Dallmeier Network Interface (DNI) and can be easily realised. Additionally Dallmeier’s SEDOR® technology provides further security through an automatic camera sabotage detection (focus change, turning, covering, spraying).

Good to know!

More details on our specific bank solutions can be found in our bank recorder flyer which is available for download to all trade partners in the Partner Forum!

Petrol station

Dallmeier CCTV/IP solutions for petrol stations

Gone are the days when it was possible to just fill up, jump in and then drive away – thanks to the ability of modern video surveillance systems to supply conclusive images and document transactions reliably.

Dallmeier provides optimal solutions for petrol stations: from cameras to recorders to analysis software – perfectly matched components from a single source.

With the cameras from the Cam_inPIX® series, Dallmeier is setting new standards: The cameras with the innovative UWDR technology (Ultra Wide Dynamic Range) have the advantage over all previously known processes in that they can display considerably more detail in shaded and very bright sections of a picture. The latest generation of high-resolution sensor technology also provides clear, high-contrast pictures without any blooming or smearing even in the most difficult lighting conditions. At service stations, customer number plates can be recognised reliably from vehicles approaching the camera with their headlights on.

The Dallmeier digital recorders distinguish themselves by offering excellent picture quality and being extremely reliable and user-friendly. Motion detection for all camera inputs is integrated. The SmartFinder, an intelligent search system for motion in the picture, enables fast efficient analysis of the recorded data in predefined picture areas. Optionally, the DI-Detector for intelligent analysis of video picture contents can be added, allowing each vehicle to be identified via number plate recognition (NPR).

Seamless documentation

Yet as a stand-alone solution a Dallmeier recorder provides various search options allowing time-saving localisation of particular sequences, for instance according to date, time or fuelling location. When connecting the video system to the cash system, e.g. Huth, even more search criteria can be specified (value of fuel, method of payment, number of litres, other items, etc). Thus, the video surveillance system provides a complete documentation of the entire fuelling process including all relevant information.

And should someone actually leave without paying, the relevant picture sequences can easily be sourced out on CD and used in court.

Multiple application possibilities

However, fuel theft is not the only concern of petrol station owners: robberies, shoplifting and vandalism are increasing significantly. An annual loss of up to €50.000 for large service stations is not uncommon. Even police statistics outline the alarming increase in crime rates at service stations.

Moreover, the attractive variety of goods on offer in the shop area entices many to shoplift – and it is not just customers or suppliers, but often employees who steal goods. Crimes such as these can be reliably detected and documented using Dallmeier recording systems.

Convenient control, configuration and analysis via PRemote is possible, i.e. independent of site via LAN/WAN (MPEG-4). That way you can keep an eye on your service stations wherever you are!

Airport

Dallmeier CCTV/IP solutions for airports

Modern video surveillance in airports requires flexible solutions which fulfil stringent quality and security demands: Distributed cameras, recording and transmission of video signals, live presentation, use of digital networks, intelligent picture processing, integration of audio channels and control as a video system via a higher-order (often already existing) building-management system.

Due to the layout of modern airports with numerous separate buildings and areas, the need arises for multi-area surveillance systems with the flexibility to set up secondary control centres as well, for example. Emergency scenarios and the integration of mobile control stations also play an important role (e.g. PDA).

Picture processing – Picture transmission – Picture storage

The Dallmeier product range offers the most modern solutions for the requirements of today's airports. By using the Digital Matrix and the numerous Intelligent Video Analysis Systems (from automatic number plate recognition to abandoned suitcases in the terminal area), solutions ensuring maximum security are created.

The Virtual Matrix from Dallmeier enables the transmission and recording of video and audio signals in broadcast quality via an Ethernet/IP network. Using this technology, which is based on the DIS devices, any number of cameras at an airport can be analysed, recorded and, if necessary, transmitted via the IP network. The implemented MPEG-2/4 compression enables camera pictures to be transmitted in real time and with the best possible quality and frame rate, even allowing convenient control of PTZ cameras. Recording also occurs in broadcast quality into a ring memory, which is automatically overwritten after a preset time has passed (e.g. 14 days).

Intelligent video analysis systems from Dallmeier are especially suitable for outdoor applications, e.g. for fence surveillance. They can analyse relevant video pictures and, for example, identify a person moving in a certain direction within a certain area as suspicious and alert the higher-order management system. The live picture is then switched to one of the surveillance monitors by the Virtual Matrix. The most modern algorithms, such as object classification, ensure that the false alarm rate from ambient environmental influences is minimised.

In addition, the DI-Detector is also available for use inside the terminal or in the baggage claim area. It enables amongst others the monitoring of static objects and can alert the central security office if, for example, a suitcase was set down in a critical area and left for a longer period of time.

In parking garages and near access points, the system enables identification of entering and exiting vehicles via automatic number plate recognition (NPR).

All Dallmeier devices can be integrated into the system network and enable simultaneous recording and playback of any connected camera via the time-shift method (Triplex mode). PTZ functions can be used. Additional functions, such as slow-motion playback, scalability of picture quality, numerous playback functions and integrated picture filters for improvement of picture quality (e.g. with noisy camera signals) show the range of capabilities of our devices and predestine them for use in airports.

Dallmeier provides a variety of management systems for control of all the devices, and also different interfaces for integration into an existing infrastructure.

Picture generation

The Dallmeier high-resolution colour video cameras with Cam_inPIX® technology fulfil all the requirements of modern camera technology and are especially well suited for use in highly complex video surveillance systems of airports, with their wide variety of operating conditions. In conjunction with Dallmeier picture transmission and recording technology, the operator is in control of a complete security system with the best components, fine-tuned to one another, from one source.

The cameras, which are especially distinguished by their Ultra Wide Dynamic Range, have an advantage over previously known methods in that they can show considerably more detail in shadowy and very bright areas of a picture simultaneously. When used with the software developed especially for the security field, cameras with Cam_inPIX® technology also provide clear, high-contrast pictures in every situation, even in very difficult lighting conditions when monitoring different areas of an airport and its grounds.

Cameras in the Cam_inPIX® series are attractive not only because of their outstanding picture quality, but also thanks to easy start-up and extreme user-friendliness. Their convenient factory presets offer optimum picture quality out of the box in almost any operating conditions. Subsequent changes to the presets or adaptation of individual parameters can be carried out with little effort directly via the video cable of a modern Dallmeier digital recorder or a PView station.

Due to their very large dynamic range, Dallmeier cameras are ideal for use in airport terminals, for example, in which a variety of lighting conditions (including direct sunlight) are found over the course of the day due to large-size glass facades. Difficult lighting conditions of this type are also dealt with on a continuous basis in the loading and unloading zones of freight terminals. At city-train stations, this newest generation of cameras also provides picture material which is highly suitable for secure surveillance of the platforms, even in backlit conditions.

In garage parking entrances and exits, Cam_inPIX® cameras combined with Dallmeier CCTV intelligent video analysis systems guarantee secure detection and monitoring of vehicle number plates, even with the headlights of a car switched on. Dallmeier video cameras are used with intelligent video-sensor technology in the field of outdoor security. Last, but not least, suspicious people and vehicles are reliably detected and the security control centre is alerted in any conceivable lighting conditions, even in rain, hail or snow, due to the excellent quality of the picture material generated.

Requirements:
- Implementation of a state-of-the-art video surveillance solution
- Flexible and scalable expandability and adaptation to future requirements
- Use of the most modern technologies available for networking, cameras and video technology
- Use of the most advanced algorithms for picture processing and event analysis based upon them (CCTV video analysis systems)
- Integration into the existing infrastructure

Retail

Dallmeier CCTV/IP solutions in retailing

There are many different applications for a modern CCTV system in retailing. CCTV is used to prevent theft in shops and stores, to provide evidence of robberies and break-ins and to uncover employee fraud or deception. Attractive product ranges don't just please honest customers, they also tempt light-fingered people to help themselves.

But it isn't just security which benefits from CCTV, video analysis is useful for marketing, too. With the DI-Detector you can observe customers, measure footfall, conduct behavioural studies or structural analysis, which helps with improving staff planning or shop layouts.

It doesn't matter whether it is a small supermarket, an exclusive jeweller or a complete shopping centre, Dallmeier offers the ideal solution for every situation.

CCTV keeps an eye on everything

What is important for a retail solution is that it should be a highly visible installation using high resolution colour cameras with activity-related digital recording which will deter most potential culprits before they try anything. Dallmeier cameras are particularly helpful in keeping an eye on secluded areas. And, if a theft, robbery, break-in or act of vandalism is committed then the CCTV monitoring system provides a detailed image of the suspect(s) which usually leads to their apprehension.

In addition there are the many other uses for this kind of equipment. It can be used for analysing customer behaviour, improving staff management and shop layouts, avoiding staff/customer collusion in theft and deception, checking the accuracy of deliveries or, if a customer has an accident, resolving liability claims rapidly. Outside business hours the shop can continue to be monitored using Dallmeier's PView software or SeMSy®.

Tailor-made solutions for every situation

Given the range of different recording systems, a perfect-fit system meeting the customer's current needs is always possible using Dallmeier equipment, whether the site is a small local branch, a sizeable store or a whole shopping arcade.

Both the built-in motion detector which enables event controlled recording and the wide range of recording modes ensure that the hard disk capacity is used efficiently.

Other special features include activity related recording and built-in SEDOR® technology for automatic camera sabotage recognition (such as tampering with the focus setting, camera re-alignment or masking).

A great advantage of Dallmeier recorders is that the data can be exported easily and, since the authenticity of the pictures can be proved (Kalagate certification), they are accepted for evidential purposes in a court of law.

User-friendly monitoring of the whole shopping centre

Dallmeier has the right solution for monitoring complete shopping centres as well. The integration of different parts of the system is significant here. For example loud speaker announcements, car park barrier controls, intercom functions and of course the high quality CCTV monitoring and video recording with remote control of cameras, all form part of a single system. By bringing together the different functions in a homogenous, fully digital system the operating procedures are simplified and the reaction times reduced hence improving security and service for the visitor.

The core of the system are the networkable DIS devices which combine the functions of a digital video recorder with those of a digital video transmission system. The Linux-based devices use MPEG-2/-4 picture compression process and achieve excellent picture quality with 25 frames per second in full PAL resolution for recording and live transmission (NTSC: 30 fps). The video data streams can be distributed to the display units via the integral Ethernet connection.The DIS devices use Dallmeier's SeMSy® technology which enables different media data streams (audio, video, control) to be processed and switched easily. Live picture display and recording of video data can take place anywhere in the networked system. Recording can be local or centralised on a server.

In contrast to a conventional analogue matrix, which is only available in one certain location and only has a limited number of inputs and outputs, the virtual matrix allows for additional components to be connected anywhere. There is no limitation to the number of connected components. Therefore, the digital network offers far more flexibility and scalability for future requirements.

Flexibility and expansion potential

Owing to the open, freely scaleable system architecture, the standard interfaces used and the resultant flexibility, expansions are easy to carry out at any time and integrate seamlessly into retail solutions. This ensures that the system is always able to adapt to meet future demands. Dallmeier supports its customers through the planning phase to ensure all components are compatible.

"A worthwhile investment!"

Experience shows that a system can pay for itself in as little as 6 months. And how good an investment in a CCTV system can be, is demonstrated by the following example from the EDEKA supermarket in Wuppertal, Germany.

The installer began installation work around 8 o'clock in the morning. He worked during normal business hours and at 3 pm he handed the system over to the shop manager. At 17.30 the first case of shoplifting was detected and the culprit caught.

The behaviour of the offender could be clearly documented: first, the situation is carefully probed, then the culprit returns and repeatedly grabs items from the shelf. He places one item into the shopping trolley, while at the same time putting a number of items in a bag located between the trolley and himself.

The shop manager commented, "The system has paid for itself on its first day. It could prevent shoplifting and protect the stock from the moment it went into service. I didn't expect such clear sharp pictures, the system is more than convincing."

Casino

Dallmeier CCTV/IP solutions for casinos

Dallmeier has planned and realised the biggest real-time IP systems in casinos worldwide. Why not also benefit from the long years of experience and competence of our CCTV/IP casino experts!

Dallmeier is offering complete solutions. When you need a completely coordinated system that offers higher picture quality and greater functionality than systems using individual products from different manufacturers, why go anywhere else? Dallmeier is your single source for every component of your video solution.

Special CasinoCam

Cameras form the first element of the system and should therefore be chosen particularly carefully. For the logic is simple: Even the best recorder can only record high-quality images if the camera provides a good signal.

That is why Dallmeier has used its 25 years of experience to produce own cameras, using the latest Pixim DPS* technology as the basis for the in-house development of the Cam_inPIX® technology.

Dallmeier even upped the ante: The cameras were adjusted to the special requirements of casinos. This was the beginning of the Dallmeier CasinoCam, a special camera that, thanks to a specifically developed software, is able to provide quick and optimal adjustment to the different scenarios in a casino.

Recording with highest availability

The Dallmeier solution is always based on the high-availability of storage directly at the encoder. The recording is not network-dependent, therefore it is not disturbed even during interference or complete network failure. Thereby Dallmeier guarantees the highest availability of its comprehensive solution because there is no single-point-of-failure. This in turn means that the failure of an individual component would not cause a breakdown of the whole system.

Through well-engineered technology and a modular design, Dallmeier video systems achieve an availability of 99.99994%, which is even better than the Five Nines advertised throughout the IT world. Such availability values can not even be achieved by extremely expensive storage systems.

Future-proof transmission technology

The network forms the centrepiece of a CCTV/IP system, as it acts as an important interface between the operator and the system. Modern networks offer sufficient reserves for all important operations in a casino. With appropriate redundancies the highest availability of neuralgic locations can be achieved and the whole network can be easily monitored thanks to sophisticated management operations. When configured appropriately, shortages such as an overloaded network can be detected and eliminated at an early stage.

Modern casinos are fully networked. All important operations such as access control systems, cash management, gambling table surveillance, alarm systems, audio/video transmission or complete management of a casino are carried out via IP. With professional planning CCTV can be seamlessly integrated into the network.

Dallmeier will be pleased to give you advice! It makes no difference if the system is newly-planned or the integration possibilities and adjustments for a CCTV-system of an already existing network need to be clarified.

Furthermore, Dallmeier works closely with leading manufacturers of the network industry and is thus familiar with new developments and technologies ahead of everyone else. The best basis to provide optimal advice!

Optimum support in each phase of the project with the Casino Competence Centre

The Dallmeier Casino Project Team is composed of professionals with specific experience in the casino sector. They provide support to customers from the start of the project planning to the technical implementation of the video surveillance solution and are also available after the commissioning process to answer questions and offer advice.

With Dallmeier you have a competent partner in each phase of the project. From consulting, planning and project management to production, Factory Acceptance Test and on-site commissioning. All steps are co-ordinated and fully concentrated towards the benefit of the customer. Thus, the Dallmeier Casino Project Team offers casinos of all sizes, all over the world, specially adapted video surveillance solutions and an extensive range of services.

Satisfied customers worldwide

Above all the reliability, flexibility and user-friendliness of the solutions have added to the trust that customers throughout the world have in the company's experience and competence.

City of Dreams, Macau:

"We had to be able to customize the system with enhancements to better interface it to gaming and revenue associated applications. This for us meant Dallmeier."

Leroy Daniel, Director of Surveillance at City of Dreams

Barona Casino, USA:

"The most important point that made us choose Dallmeier was that, for the first time, our ideas were fully understood - an individual solution that completely met our requirements was developed."

Raymond Welch, Director of Surveillance of the Barona Gaming Commission

Casino Admiral Mendrisio, Switzerland:

"Dallmeier's approach to a solution convinced us. All our requirements were met and we have also received valuable tips – when you are working with Dallmeier you notice their wide experience in that area. Dallmeier has definitely been the right choice!"

Urs-Holger Spiecker, General Director

Casino Esplanade, Germany:

"It is very important for us, to make our guests feel comfortable and absolutely safe, not least with their pool. Possible discrepancies at the table need to be clarified quickly and simply. A reliable video surveillance system, providing clear and precise pictures, was an absolute must for us. Thus we opted for a Dallmeier solution"

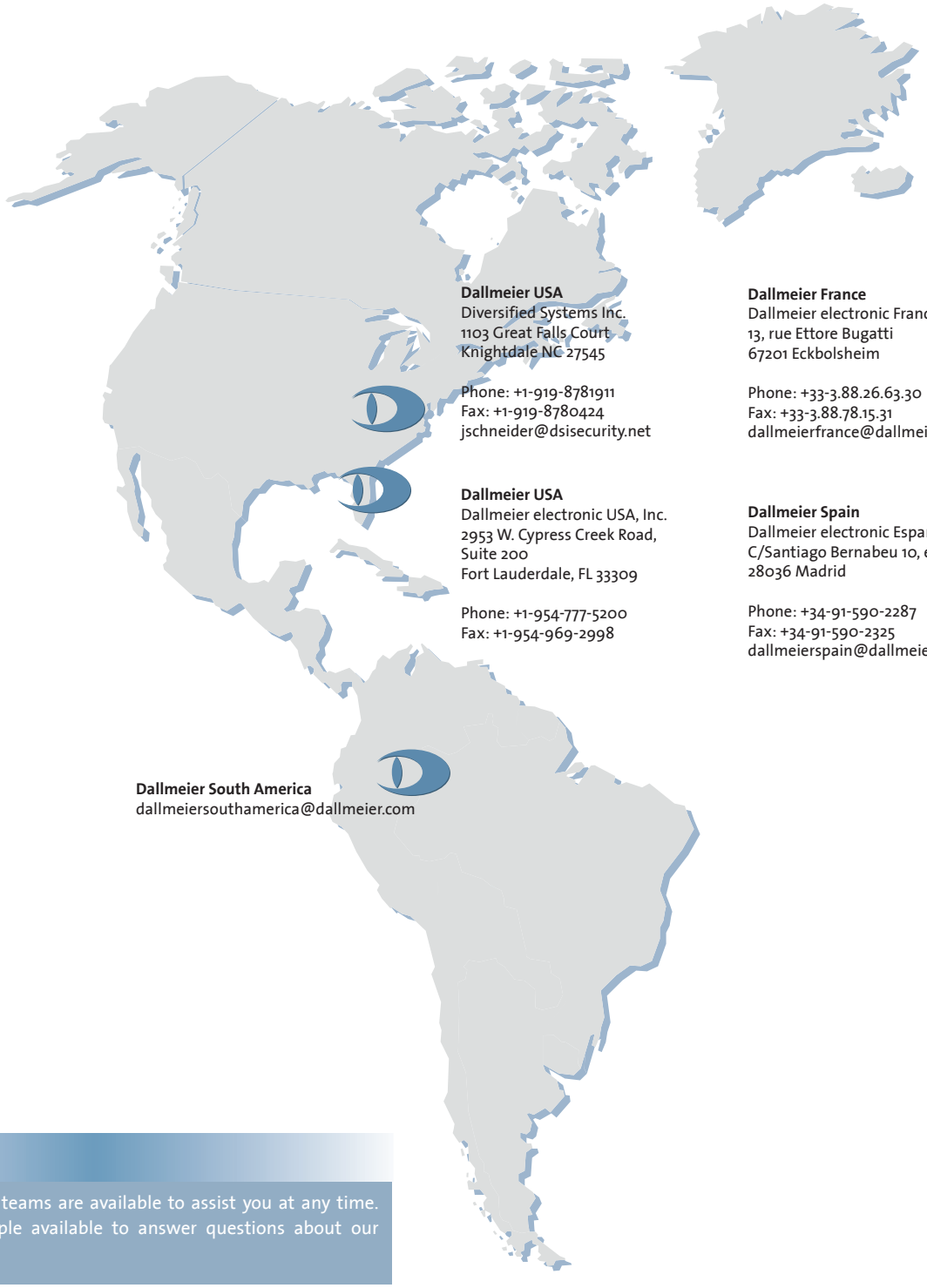
Otto Wulferding, General Manager of Spielbank Hamburg

Good to know!

More details on our specific casino solutions can be found in our casino brochure!
You can order your personal copy on our website:

www.dallmeier.com or
www.casino-surveillance.com

Local and global coverage



Dallmeier USA
Diversified Systems Inc.
1103 Great Falls Court
Knightdale NC 27545

Phone: +1-919-8781911
Fax: +1-919-8780424
jschneider@dsisecurity.net

Dallmeier USA
Dallmeier electronic USA, Inc.
2953 W. Cypress Creek Road,
Suite 200
Fort Lauderdale, FL 33309

Phone: +1-954-777-5200
Fax: +1-954-969-2998

Dallmeier South America
dallmeiersouthamerica@dallmeier.com

Dallmeier France
Dallmeier electronic France S.à.r.l.
13, rue Ettore Bugatti
67201 Eckbolsheim

Phone: +33-3.88.26.63.30
Fax: +33-3.88.78.15.31
dallmeierfrance@dallmeier.com

Dallmeier Spain
Dallmeier electronic España, S.L.
C/Santiago Bernabeu 10, esc. C 9 C
28036 Madrid

Phone: +34-91-590-2287
Fax: +34-91-590-2325
dallmeierspain@dallmeier.com

Questions?

Our support and sales teams are available to assist you at any time. They have skilled people available to answer questions about our products.

Via Fax:
+49 (0) 941-8700 180

Via E-Mail:
sales@dallmeier.com

Dallmeier UK
Dallmeier electronic UK Ltd.
Dallmeier House, 3 Beaufort Trade Park
Pucklechurch
Bristol
BS16 9QH

Phone: +44-117-303-93-03
Fax: +44-117-303-93-02
dallmeieruk@dallmeier.com

Dallmeier Nordic
ScanView A/S
Karetmagervej 23 B
7000 Fredericia

Phone: +45-7624-4040
Fax: +45-7624-4041
dallmeiernordic@dallmeier.dk

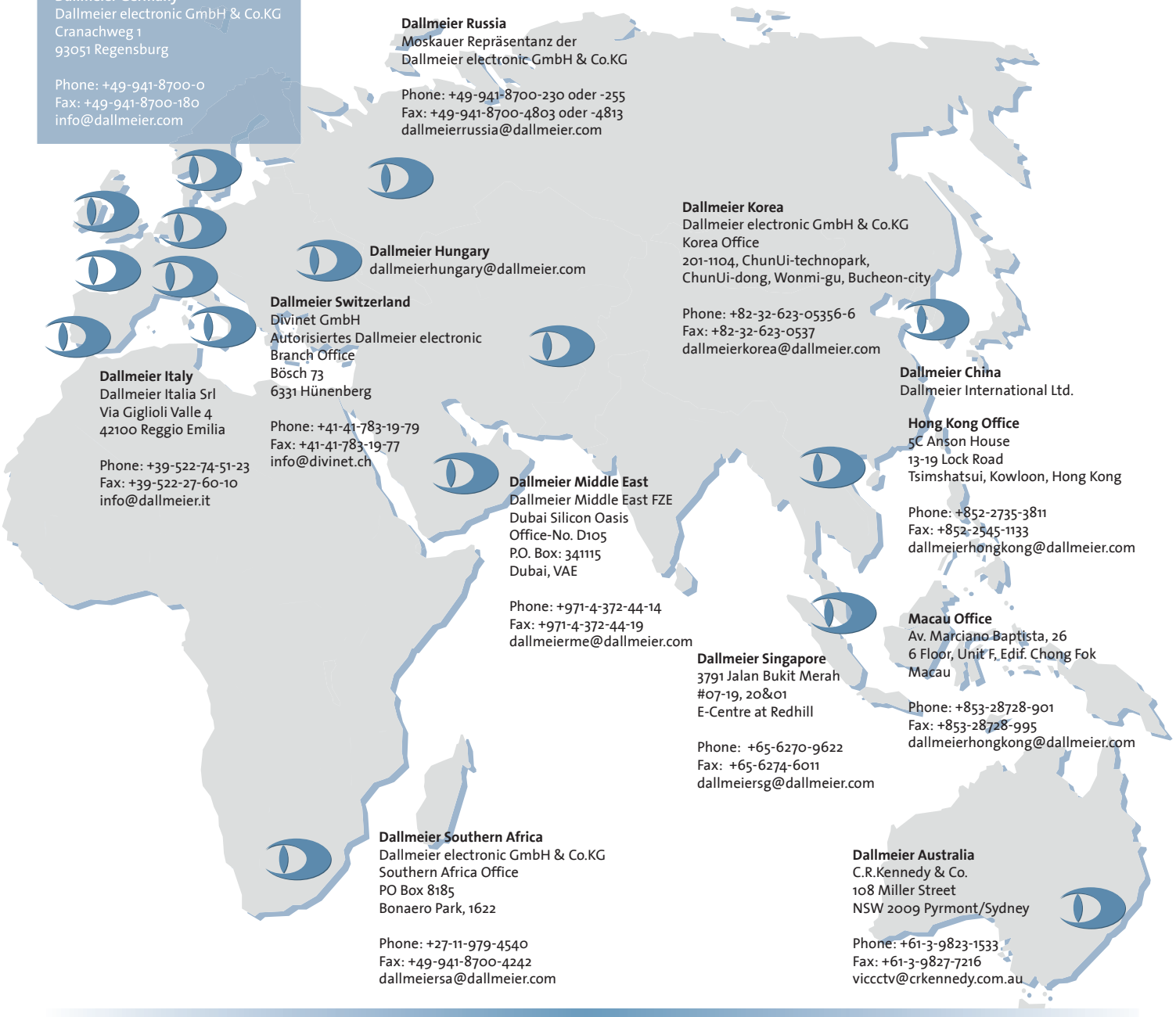
Headquarters

Dallmeier Germany
Dallmeier electronic GmbH & Co.KG
Cranachweg 1
93051 Regensburg

Phone: +49-941-8700-0
Fax: +49-941-8700-180
info@dallmeier.com

Dallmeier Russia
Moskauer Repräsentanz der
Dallmeier electronic GmbH & Co.KG

Phone: +49-941-8700-230 oder -255
Fax: +49-941-8700-4803 oder -4813
dallmeierrussia@dallmeier.com



Dallmeier Hungary
dallmeierhungary@dallmeier.com

Dallmeier Switzerland
Divinet GmbH
Autorisiertes Dallmeier electronic
Branch Office
Bösch 73
6331 Hünenberg

Phone: +41-41-783-19-79
Fax: +41-41-783-19-77
info@divinet.ch

Dallmeier Italy
Dallmeier Italia Srl
Via Giglioli Valle 4
42100 Reggio Emilia

Phone: +39-522-74-51-23
Fax: +39-522-27-60-10
info@dallmeier.it

Dallmeier Middle East
Dallmeier Middle East FZE
Dubai Silicon Oasis
Office-No. D105
P.O. Box: 341115
Dubai, VAE

Phone: +971-4-372-44-14
Fax: +971-4-372-44-19
dallmeierme@dallmeier.com

Dallmeier Korea
Dallmeier electronic GmbH & Co.KG
Korea Office
201-1104, ChunUi-technopark,
ChunUi-dong, Wonmi-gu, Bucheon-city

Phone: +82-32-623-05356-6
Fax: +82-32-623-0537
dallmeierkorea@dallmeier.com

Dallmeier China
Dallmeier International Ltd.

Hong Kong Office
5C Anson House
13-19 Lock Road
Tsimshatsui, Kowloon, Hong Kong

Phone: +852-2735-3811
Fax: +852-2545-1133
dallmeierhongkong@dallmeier.com

Macau Office
Av. Marciano Baptista, 26
6 Floor, Unit F, Edif. Chong Fok
Macau

Phone: +853-28728-901
Fax: +853-28728-995
dallmeierhongkong@dallmeier.com

Dallmeier Singapore
3791 Jalan Bukit Merah
#07-19, 20&01
E-Centre at Redhill

Phone: +65-6270-9622
Fax: +65-6274-6011
dallmeiersg@dallmeier.com

Dallmeier Southern Africa
Dallmeier electronic GmbH & Co.KG
Southern Africa Office
PO Box 8185
Bonaero Park, 1622

Phone: +27-11-979-4540
Fax: +49-941-8700-4242
dallmeiersa@dallmeier.com

Dallmeier Australia
C.R.Kennedy & Co.
108 Miller Street
NSW 2009 Pyrmont/Sydney

Phone: +61-3-9823-1533
Fax: +61-3-9827-7216
vicctv@crkennedy.com.au

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Dallmeier electronic GmbH & Co.KG
Cranachweg 1
93051 Regensburg
Germany

Phone: +49 (0) 941 87 00-0
Fax: +49 (0) 941 87 00-180
www.dallmeier.com