

2022 CPRO SECURITY SOLUTIONS

AI

2022 CPRO SECURITY SOLUTIONS

VER. 2206



DEEP LEARNING



4K



BUBBLE FREE



MULTI SENSOR



ELEVATOR



PTZ

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Technological innovation based on 25 years of CCTV security experience

Since 2013, through the development of IP cameras equipped with Ambarella chips, we have lined up a lineup of intelligent cameras optimized for various situations, from special lines such as Multi Sensor, 4K, Fisheye, and PTZ to general lines. We are leading the global video security technology by launching an edge-based AI deep learning intelligent video analysis camera.



Global brand of CPRO North American sales company

CPRO has been a DW (Digital Watchdog) brand since 2008. We have built a solid sales channel in the North American market. With the global brand DW's end-to-end video security integrated solution, we are focusing on entering new global markets such as EMEA and Asia.

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VCA TOTAL SOLUTION



CPRO, has formed a technology partnership with VCA, an UK leading developer of video analytic software. This partnership will bring to the market a comprehensive range of quality cameras and other hardware, specifically designed to enhance the performance of VCA.

AI Edge

AI
Deep Learning

Cloud

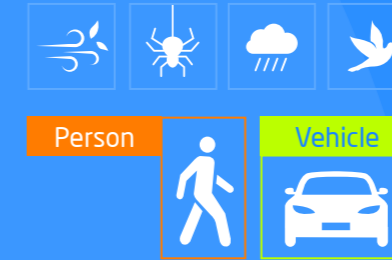
Server

VMS

Recorder

AI Deep learning Filter

Object tracking systems accurately categorize and identify objects based on deep learning, so can detect only the objects you want. Only alarms for pre-set events are activated by reducing significantly false alarms due to site noise such as moving light, leaves, spiders, rain, and wild animals. You can save video data storage and respond to specific events, so efficient video monitoring is easible.



Accurate Object
Detection & Classification

Deactivation









































Alarm



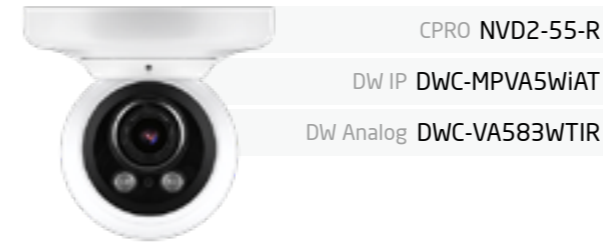
VMS Spectrum detects and classifies objects to analyze a variety of events. The analyzed videos are stored as metadata and notifications are supported, including pop-up windows, emergency bells, and screen flashes. Also search for object size, color, and speed. It can be deployed on OS platforms such as Linux, Windows, Mac, and Android, making it easy for users to experience video analytics solutions on any device.

NAMING RULE

Housing

	VM6 Multi Sensor Vandal Dome PREDATOR		ST10 Height Indicator Strip Pinhole PINHOLE II		VD9 Vari-focal / MFZ Vandal Flat Dome SPACE VII		BT4 Vari-focal / MFZ Bullet VITUS III T
	VM5 Multi Sensor MFZ Vandal Dome SURROUND II		ST11 Door Surveillance Pinhole PINHOLE III		VD13 Vari-focal / MFZ Vandal Flat Dome SPACE IX		BT3 Vari-focal / MFZ Bullet VITUS III
	VM7 Dual Sensor MFZ Vandal Dome TWINS		VD11 Bubble Free Dome GENIUS		VD7 Fixed Vandal Mini Dome SPACE V		BT1 Vari-focal Bullet VITUS II
	VM8 Dual Sensor Mini Vandal Dome TWINS II		VD1 Bubble Free Dome TURRET		VD4 Fixed Vandal Mini Dome CORONA		BI3 Fixed Mini Bullet VITUS
	SF1 Special Fisheye Bullet EYEVIEW		VD2 Bubble Free Dome TURRET II		VP2 Vari-focal / MFZ Indoor Dome ARES		BI2 Fixed Mini Bullet FIESTO
	VF2 Fisheye Vandal Dome FISHEYE_Outdoor		VD3 Bubble Free Dome TURRET III		NK5 Vari-focal / MFZ Indoor Dome KROWN_IP		BI4 Fixed Mini Bullet FIESTO II
	VF13 Fisheye Vandal Dome FISHEYE II_Outdoor		NK6 Vari-focal / MFZ Vandal Surface Dome NUCLUS		NK2 Vari-focal / MFZ Indoor Dome KROWN_Aanalog		BH1 Thermal Mini Bullet FEVER
	PX5 30X PTZ Vandal Dome ENDLESS III		NK4 Vari-focal / MFZ Vandal Surface Dome NUCLUS_Analog		VP3 Fixed Indoor Mini Dome SPACE VI		CB3 Vari-focal Box PRAU
	PX3 PTZ Vandal Dome ENDLESS		VD5 Vari-focal / MFZ Vandal Dome CRONOS		BT7 MFZ Bullet DOLCE III		CB2 Vari-focal Box INTELLIO
	ST9 Remote Head Pinhole PINHOLE		VD8 Fixed Vandal Flat Dome SPACE IV		BT5 MFZ Bullet DOLCE II		NV9 AI Bridge AI BRIDGE

Example



N	VD2	5	5	R
System	Housing	Chip	Resolution	Function
N Network C Coaxial Analog D Coaxial Digital W Wi-Fi M Miscellaneous	Dome VM Multi sensor VF Fisheye NK Series name VD Outdoor VP Indoor Bullet BM Multi sensor BH Thermal BT Tool BI Fixed	PTZ PX Zoom Box CB Box Special SF Special Fisheye SH Special Thermal ST Miscellaneous	E Eyenix 0 Miscellaneous 1 Series 1 2 Series 2 3 Series 3 4 Series 4 5 Series 5 6 Series 6 7 Series 7	0 1M ↓ 2 2M 4 4M 5 5M 6 6M 8 8M 10 10M 12 12M 16 16M 20 20M 21 21M 32 32M

CPRO Camera

DW IP Camera

DWC	M	P	V	A	5	W	i	A	A	T
Model	Technology	IVA Pro	Housing	Case	Resolution	WDR	IR	Lens	Special	H.265
DWC DW Camera	M Megapixel P Pano	P IVA Pro	Dome D Indoor V Vandal MF Ultra low-profile vandal VF Vandal Fisheye F Indoor Fisheye T Turret Bullet B Bullet Box C Box	A Internal use	A 2.1M 4 4M 5 5M 6 6M 9 9M 16 16M 21 21M 32 32M 48 48M	W True WDR D Digital WDR	i IR	28 2.8mm 4 4mm 6 6mm 8 8mm A Auto-focus V Vari-focal	VA Video analytics V Value line L LPR A Audio H Heater C1 CaaS 128GB C6 CaaS 60GB	T Triple codec H.265/H.264/ MJPG

DW Analog Camera

DWC	VA	A	5	8	3	W	T	IR	W
Model	Housing	Case	Technology	Lens	Sensor	WDR	TDN	IR	Color
DWC DW Camera	Dome D Indoor V Vandal T Turret MC Micro VA Vandal ball	Bullet B Bullet PB Pano bullet Box C Box	A Internal use 2 UHDoC 2M 3 High resolution 4 UHDoC 4M 5 960H / UHDoC 5M 7 AHD 8 UHDoC 8M	5 Fixed 6 Vari-focal 8 Auto-focus	1 CMOS 2 CCD 3 Star-Light™	W True WDR D Digital WDR	T True D/N D Electric D/N	IR IR	W White

PRODUCT LINE UP

- AI
- IP / VCA
- HD-ANALOG
- No. : Multi Sensor
- E : Elevator
- L : LPR

Housing	MULTI SENSOR				SPECIAL						PTZ		VANDAL DOME									
	VM5	VM6	VM7	VM8	SF1	VF13	VF2	ST9	ST10	ST11	BH1	PX5	PX3	VD11	VD1	VD2	NK6	NK4	VD13			
Pro	12M					●	●															
	8M		4			●	●							●	●	●				●	●	
	5M	4		2	2		●		●	●					●	●	●	●			●	
	4M																					
	2M ↓							●			●	●	●			●						
Main	4M																●					
	2M																●	●				
Eco	2M ↓																					

- AI
- IP / VCA
- HD-ANALOG
- No. : Multi Sensor
- E : Elevator
- L : LPR

Housing	VANDAL DOME					INDOOR DOME				BULLET							BOX				
	VD9	VD8	VD5	VD7	VD4	NK5	NK2	VP2	VP3	BT7	BT5	BT4	BT3	BT1	BI3	BI2	BI4	CB2	CB3		
Pro	12M																				
	8M			●				●	●		●	●			●	●					
	5M	●	●	●	●	●	●	●	●			●	●	●		●	●		●		
	4M																	●			
	2M ↓	●	●		●	●					●	●					●			●	
Main	4M	●	●		●																
	2M	●	●	●	●	●	●	●	●		●		●	●	●	●	●	●	●	●	●
Eco	2M ↓	●	●	●	●	●			●	●			●			●	●	●	●	●	

4 SENSOR PANORAMIC UHD CAMERA



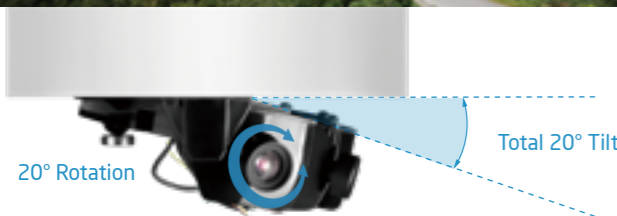
NVM6-532

Multi Sensor - PREDATOR



Total 32M IP Pano Dome
NVM6-532 (9.05 mm)

Image Device	1/1.8" 8.41M CMOS x 4ch
Total Pixels	3952 (H) x 2320 (V)
Focal Length	9.05mm / F2.6
MIN.Illumination	Color : 0.27Lux / BW : 0.08Lux (F2.6)
Horizontal Angle	Over 180°
Day & Night	TDN (True Day & Night)
WDR	WDR(2x)
DNR	3D-DNR
Privacy Zone	16 Programmable Zone
Video Compression	H.264, H.265, MJPEG
Audio In / Out	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output
Video Output	N/A
Event Notification	FTP, E-mail, Alarm out, SD card
Edge Storage	SD / SDHC / SDXC
Power	DC12V PoE IEEE 802.3bt
Operating Temp	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67
Dimensions (W x H)	210 x 131mm
Weight	2.8 kg
Material	Aluminum

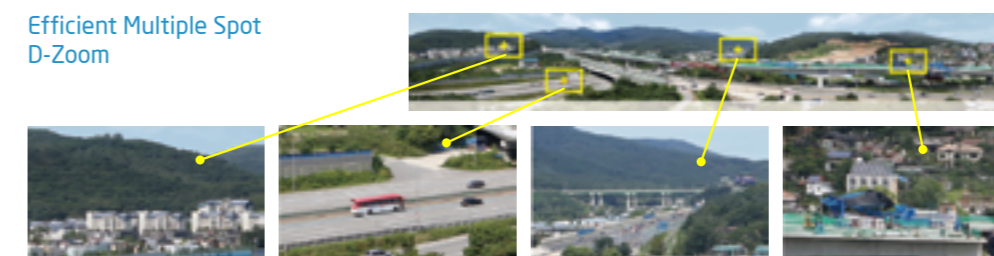


Spring Type Tilt Bracket

32MP Super Sensitive Panoramic Camera

This camera implements the 32MP resolution using the 4ea of high sensitivity 8MP CMOS sensors. It can monitor the various areas intensively at the same time while recording the wide range more than 180 degree with UHD.

Efficient Multiple Spot D-Zoom



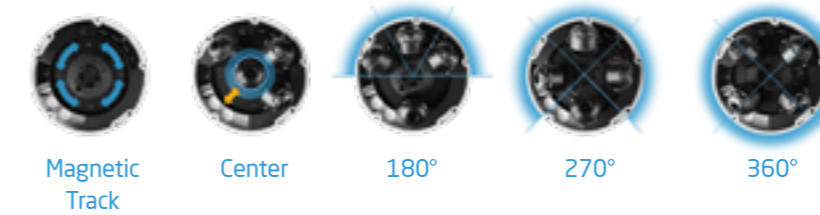
4 SENSOR SURROUND CAMERA_MFZ



NVM5-520

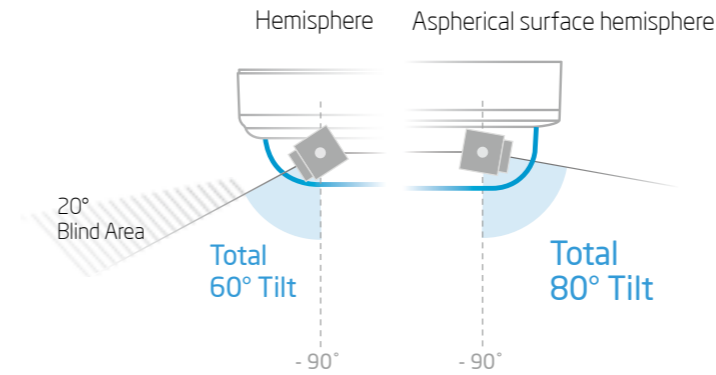


5M 4Ch
TOTAL
20MP



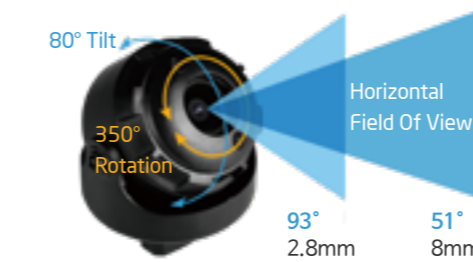
Flexible Sensor Arrangement

Easy to arrange 4 Magnetic Sensors through the Track. You can get Vertical Top View through Center Position, and 180°, 270°, or 360° View of video.



Extended Tilt Angle up to 80°

With Aspherical Surface Hemisphere, it can tilt up to 80° and minimize areas that are obscured.



MFZ Lens Module

User can tilt and rotation the module whatever angle they want. And adjust the varifocal lens.

Multi Sensor - SURROUND II



Total 20M IP Surround Dome
NVM5-520

Image Device	1/2.8" 5.14M CMOS x 4ch
Total Pixels	2704(H) x 2104(V) x 4ch
Focal Length	2.8~8.0mm / F1.6, MFZ
MIN.Illumination	Color : 0.1Lux / BW : 0.05Lux (F1.6)
Horizontal Angle	93°~51°
Day & Night	TDN (True Day & Night)
WDR	WDR(2x)
DNR	3D-DNR
BLC	Yes
Privacy Zone	16 Programmable Zone
Edge Storage	SD / SDHC / SDXC
Audio In / Out	1[1.0Vrms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output
Video Output	CVBS 1.0V p-p
Pan / Tilt / Zoom	Z : x3 Optical
Power	DC 12V PoE IEEE 802.3bt
Operating Temp	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66
Dimensions (W x H)	210 x 92mm
Weight	1.9Kg
Material	Aluminum

WHITE LED SURVEILLANCE DOME CAMERA



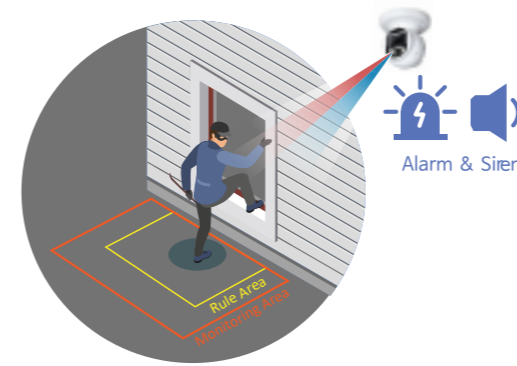
NVD3-75-W

5M
WHITE LED



Non-diffused camera implement video as Full Color Day & Night

This camera is equipped with the highly sensitive sensor, and high-end lens of F1.0 that implement the video lightly at the dark environment. Especially, this camera utilizes the visible light then it can be used at the environment without light unlike general turret dome cameras, it applies differentiated two-glasses that if minimize the diffused reflection of the camera. Thanks to applying of two-glasses it provides the vivid image quality both day and night.



Light alarm prevents intrusion

When a target is detected in the monitoring area or enters the rule area, sirens and alarm alarms are activated. You can specify a watch area so that you can use the light function only when necessary.

Adjusting Lenses with Free Dome cover

It is convenient to adjust the lens without disassembling the dome cover.

Dome - TURRET III



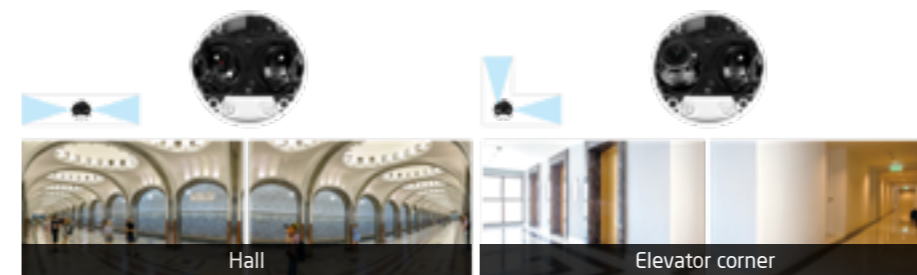
	5M IP White LED Turret NVD3-75-W	5M IP Siren LED Turret NVD3-75-RA
Image Device	1/2.8" 5.14M CMOS	1/2.8" 5.14M CMOS
Total Pixels	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)
Focal Length	3.3mm, F1.0 / 6.0mm, F1.0	2.7~13.5mm, F1.4 / MFZ, P - IRIS
MIN.Illumination	Color : 0Lux / BW : 0 Lux (F1.0)	Color : 0.08Lux / BW : 0 Lux (F1.4)
Horizontal Angle	90° / 51.9°	98.3° (W) ~ 31.6° (T)
Day & Night	N/A	TDN (True Day & Night)
WDR	WDR(2x)	WDR(2x)
DNR	3D-DNR	3D-DNR
BLC	Yes	Yes
Privacy Zone	16 Programmable Zone	16 Programmable Zone
Edge Storage	SD / SDHC / SDXC	SD / SDHC / SDXC
Audio In / Out	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output	1 Input / 1 (Alarm Siren)
Video Output	CVBS 1.0V p-p	CVBS 1.0V p-p
Pan / Tilt / Zoom	N/A	Z : x5 Optical
Power	DC 12V PoE IEEE 802.3af	DC 12V PoE IEEE 802.3af
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67
Dimensions (W x H)	125 x 122mm	125 x 122mm
Weight	0.85Kg	0.85Kg
Material	Aluminum	Aluminum

2 SENSOR MINI DUAL CAMERA

NVMB-710-R



AI
5M 2Ch
TOTAL
10MP



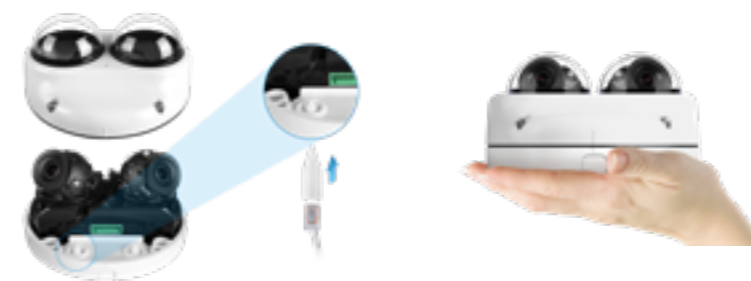
Monitoring in two directions with only one camera

The lens angle of the dual camera can be adjusted individually to suit the installation environment and the desired direction. It is highly efficient to install and operate as it can take two directions at the same time with one camera, and can be applied to long corridors, elevator corners, shopping malls and narrow spaces.



Flexible sensors arrangement

You can freely adjust the pan, tilt, and rotation angle of each lens module to suit the desired shooting area.



Compact size and easy installation

It has a small and simple design that is perfect not only outdoors but also indoors, so it is easy to install and maintain using existing LAN cables without additional cable using.

Multi Sensor - TWINS

AI



	Total 10M IP Mini Dual Dome NVMB-710-R (2.8 4.0 6.0 8.0mm)	Total 10M IP Dual MFZ Dome NVM7-510-R
Image Device	1/2.8" 5.14M CMOS x 2ch	1/2.8" 5.14M CMOS x 2ch
Total Pixels	2704(H) x 2104(V) x 2ch	2704(H) x 2104(V) x 2ch
Focal Length	2.8mm / 4.0mm / 6.0mm / 8.0mm, F2.0	2.7~13.5mm / F1.4
MIN.Illumination	2.8mm, 0.13Lux (F1.8) etc, 0.16Lux (F2.0)	Color : 0.08Lux / BW : 0Lux (F1.4)
Horizontal Angle	2.8mm : 102.4° / 4.0mm : 82.3° / 6.0mm : 51.9° / 8.0mm : 37.8°	96°~31°
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR(2x)	WDR(2x)
DNR	3D-DNR	3D-DNR
BLC	Yes	Yes
Privacy Zone	16 Programmable Zone	16 Programmable Zone
Edge Storage	SD / SDHC / SDXC	SD / SDHC / SDXC
Audio In / Out	1[1.0Vrms, 3K ohm] / 1	1[1.0Vrms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output	1 Input / 1 Output
Video Output	CVBS 1.0V p-p	CVBS 1.0V p-p
Power	DC 12V PoE IEEE 802.3af	DC 12V PoE IEEE 802.3at
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP66
Dimensions (W x H)	139 x 79.5mm	210 x 105.3mm
Weight	0.68Kg	2.8Kg
Material	Aluminum	Aluminum

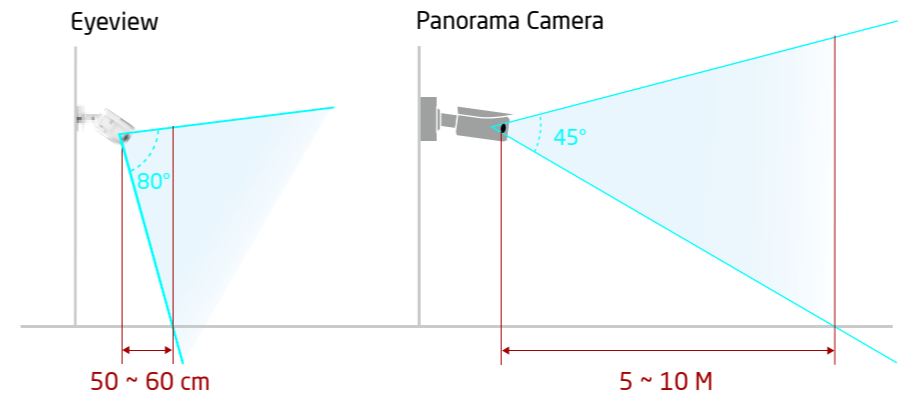
1 SENSOR 4K EYEVIEW PANORAMIC BULLET CAMERA

NSF1-78-R

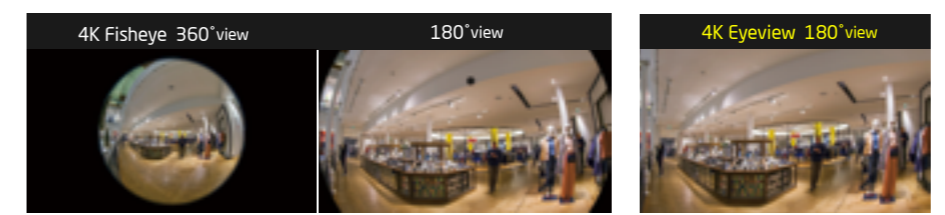


AI

4K



Suitable for indoors installation by a focal length of at least 50 to 60cm
Compared to panoramic cameras with a focal length of at least 5 to 10m, it's much easier to install in narrow corridors or buses with the near 50 to 60cm. Also, the compact size doesn't affect interior design when installed indoors, mounts by fitting is easy to install.



4K 180° Panoramic Eyeview

The images output from the 4K sensor supports panoramic views with minimum distortion similar to human vision compared to Fisheye's de-warping images.

External Control

You can control / access the Reset / 2nd Video Output / Micro SD Card from the outside.

Special - EYEVIEW

AI



4K



	AI 4K IP Pano Bullet NSF1-78-RS (2.3 mm)	4K IP Pano Bullet NSF1-58-R (2.3 mm)
Image Device	1/1.8" 8.41M CMOS	1/1.8" 8.41M CMOS
Total Pixels	3952 (H) x 2320 (V)	3952 (H) x 2320 (V)
Focal Length	2.3mm / F2.8	2.3mm / F2.8
MIN. Illumination	Color : 0.29Lux / BW : 0Lux (F2.8)	Color : 0.29Lux / BW : 0Lux (F2.8)
Horizontal Angle	175°	175°
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)
BLC	WDR(2x)	WDR(2x)
DNR	3D-DNR	3D-DNR
Privacy Zone	16 Programmable Zone	16 Programmable Zone
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output	1 Input / 1 Output
Video Output	CVBS 1.0V p-p	CVBS 1.0V p-p
Event Notification	FTP, E-Mail, Alarm Out, SD Card	FTP, E-Mail, Alarm Out, SD Card
Edge Storage	SD / SDHC / SDXC	SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp.	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67
Dimensions (W x D x H)	127.9 x 222.5 x 96.7mm	127.9 x 222.5 x 96.7mm
Weight	0.97Kg	0.97Kg
Materials	Aluminum	Aluminum

360° WIDE ANGLE FISHEYE CAMERA



All CPPO's IP Cameras support the latest ONVIF version.

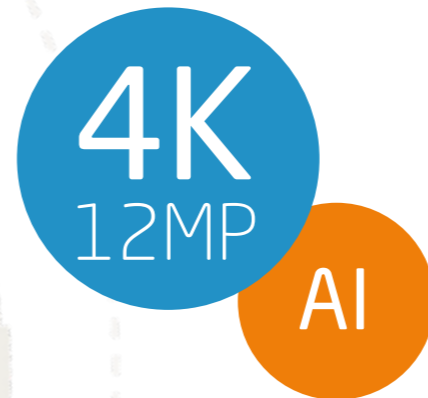


360° View Angle

With high sensitivity 12MP sensor and fisheye lens, you can get high resolution image as 360°.

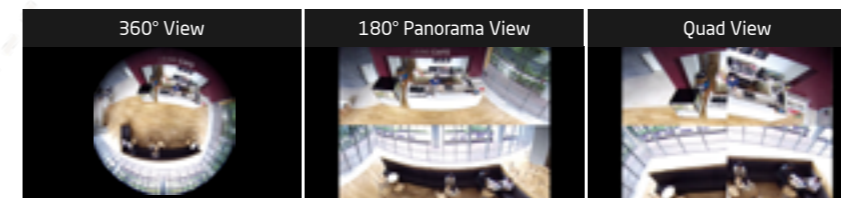


NVF13-712-R



3pcs of High Power IR LED Behind the Black IR bubble

To place IR LED behind the opaque dome to minimize the IR reflection at night.



Different Types of View

Not only the 360° fisheye mode view, 180° panoramic mode and quartered mode are provided with S/W. It dewarps the view.

IP66, Dust & Waterproof

Superior environment protection with its IP66 rating. The device is protected against invasive moisture, dust and even liquids. This superb environment protection is achieved through meticulous sealing and extra protective engineering.

Special - FISHEYE

AI



4K

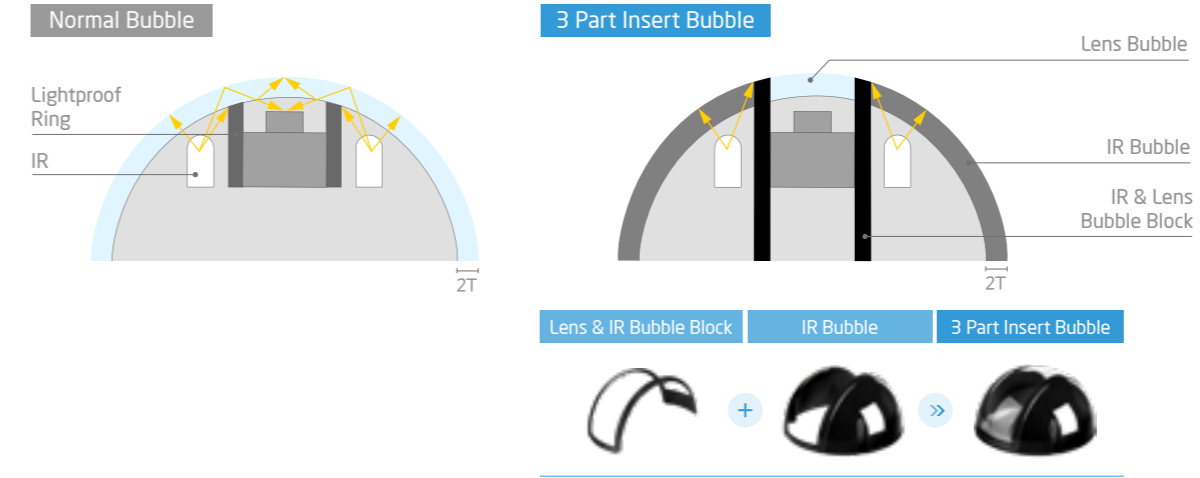


	AI 12M IP Fisheye Dome NVF13-712-R	12M IP Fisheye Dome NVF2-512-R DWC-PPVF9Di2TW
Image Device	1/2.3" 12.47M CMOS	1/1.7" 12.4M CMOS
Total Pixels	4072 (H) x 3176 (V)	4072 (H) x 3046 (V)
Focal Length	1.55mm / F2.0	2.1mm / F2.2
MIN.Illumination	Color : 0.5Lux / BW : 0Lux (F2.0)	Color : 0.3Lux / BW : 0 Lux (F2.0)
Horizontal Angle	185°	185°
IR	H 3 IR	H 3 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)
BLC	Yes	Yes
DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1(Mic) / 1	1[1.0Vrms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output	1 Input / 1 Output
Video Output	CVBS 1.0V p-p	-
Event Notification	FTP, E - mail, Alarm Out, SD card	FTP, E - mail, Alarm Out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af Class3	DC 12V PoE IEEE 802.3af Class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP66
Dimensions (W x H)	125 x 58mm	125 x 48mm
Weight	0.55kg	0.5kg
Material	Aluminum	Aluminum

30X PTZ HIGH POWER LED CAMERA

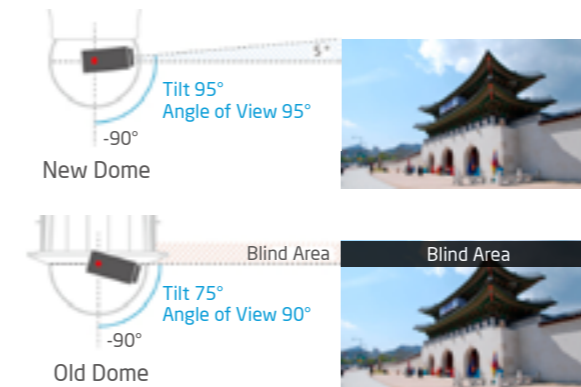


3 PART
INSERT
BUBBLE



3 Part Insert Bubble

The normal bubble has the IR light reflection on the lens by being reflected from the inside surface of the bubble. CPPO's 3 part insert bubble has a block blocking light from entering the lens so the reflection has decreased dramatically.



95° tilt supportable at the PTZ

To overcome tilt angle limitation from the normal spherical bubble, the improved bubble can tilt up to 95° without any image distortions.

More compact than anything else

It is compact and light compared to the same performance PTZ camera in a small simple design that can be installed in/outdoor.

PTZ - ENDLESS III



	2M IP 30X IR PTZ NPX5-52-R
Image Device	1/3" 2.35M CMOS
Total Pixels	1981 (H) x 1288 (V)
Focal Length	4.3 ~ 129mm / F1.6 ~ F4.7 / AF
MIN.Illumination	Color : 0.05Lux / BW : 0 Lux (F1.6)
Horizontal Angle	65.1° ~ 2.34°
IR	H 6 IR
Day & Night	TDN(True Day & Night)
WDR	wDR
DNR	3D-DNR
Pan / Tilt / Zoom	Z : x30, Tilt : -5° ~ 90°, Pan : 360°
Privacy Zone	16 Programmable Zone
Audio In / Out	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output
Video Output	CVBS 1.0V p-p
Power	DC 24V / AC 24V PoE IEEE 802.3bt
Operating Temp	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66
Dimensions (W x H)	150 x 160mm
Weight	2.8Kg
Material	Aluminum

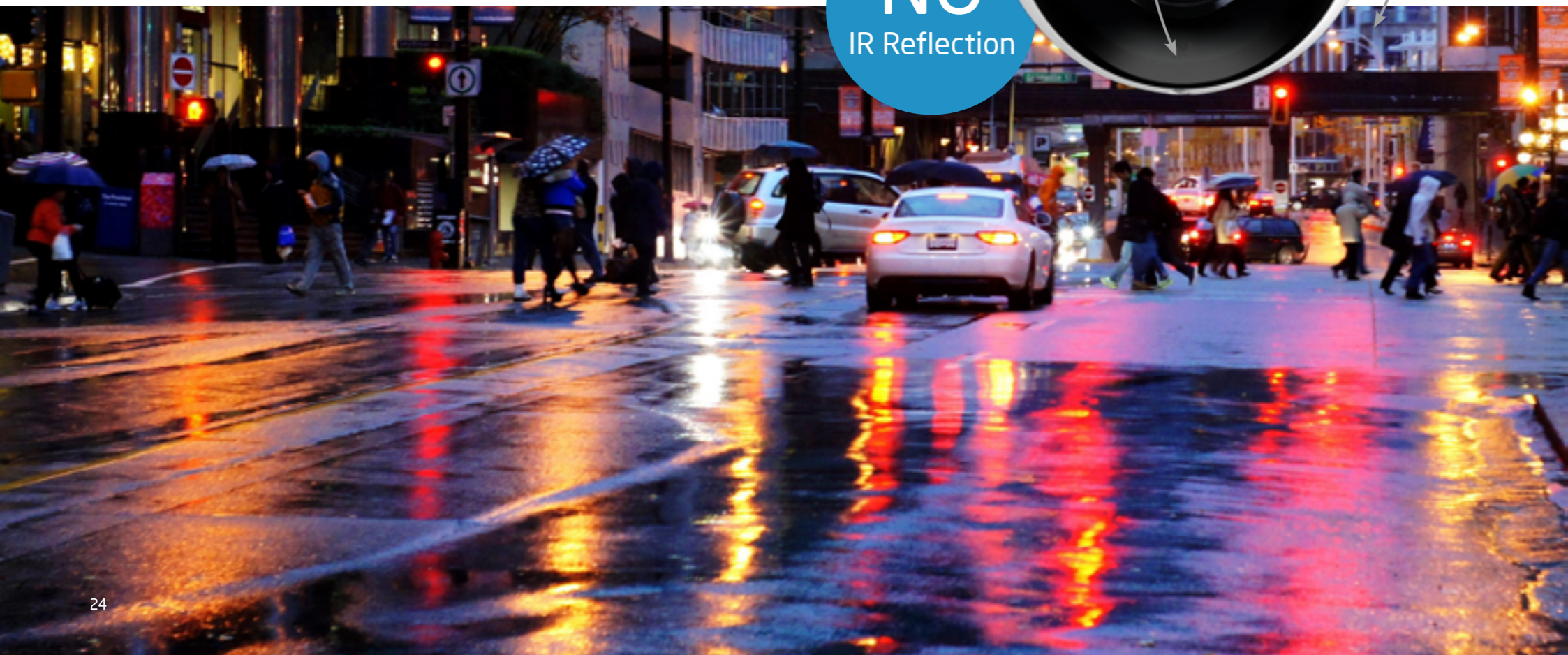
BUBBLE FREE GENIUS CAMERA



NVD11-58-R



NO
IR Reflection



Adjusting Lenses with Free Dome cover

It is convenient to adjust the lens without disassembling the dome cover.



Bubble free dome - Prevent IR reflection

Unlike regular dome cameras, there is no bubble dome cover to minimize IR reflection caused by cobweb, rain, dust, and sand.



External Control

You can control / access the Reset / 2nd Video Output / Micro SD Card from the outside.

Dome - GENIUS / TURRET

	4K	4K		
Image Device	1/2.8" 8.46M CMOS	1/2.8" 8.46M CMOS	1/2.8" 5.14M CMOS	1/2.8" 5.14M CMOS
Total Pixels	3864 (H) x 2228 (V)	3864 (H) x 2228 (V)	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)
Focal Length	2.8mm 4.0mm 6.0mm / F2.0	2.7 ~ 13.5mm / F1.4 / MFZ, P - IRIS	2.7 ~ 13.5mm / F1.4 / MFZ, P - IRIS	2.1mm, F1.8 / 4.0mm, F2.0
MIN.Illumination	Color : 0.12Lux / BW : 0 Lux (F2.0)	Color : 0.09Lux / BW : 0 Lux (F1.4)	Color : 0.08Lux / BW : 0 Lux (F1.4)	2.8mm, 0.13Lux, 0Lux with IR 4.0mm, 0.16Lux, 0Lux with IR
Horizontal Angle	2.8mm : 105.4° / 4.0mm : 85.8° 6.0mm : 54.6°	90.3° ~ 33.1°	85° ~ 31°	2.8mm : 103° / 4.0mm : 82°
IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR
IR Distance	80ft	80ft	70ft	70ft
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	N/A	N/A
Video Output	CVBS 1.0V p-p	CVBS 1.0V p-p	N/A	N/A
Edge Storage	SD / SDHC / SDXC	SD / SDHC / SDXC	N/A	N/A
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67
Dimensions (W x H)	125 x 112mm	125 x 112mm	125 x 122mm	125 x 122mm
Weight	1.0Kg	1.0Kg	0.85Kg	0.85Kg
Material	Aluminum	Aluminum	Aluminum	Aluminum

HEIGHT/FACE SURVEILLANCE PINHOLE CAMERA



Overcoming Place Limits



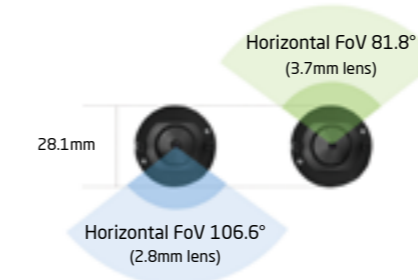
Installation anywhere without restrictions of location

The non-exposed camera is installed in the museum, gallery, store, hotel, etc. so that it has little affect existing interiors. It is easy to use even installation areas are small, such as the ATM, ticket machine, vending machine, health monitoring systems, etc.



Provides exposed, hidden brackets

Use the enclosed bracket to install on the entrances, walls, and ceilings. Rotate and tilt the exposed bracket to install it in the desired direction. Hidden brackets are installed on walls and behind ceilings.



Non-exposure surveillance over large areas

The ultra-small sensor unit is equipped with an invisible pinhole lens, enabling thorough non-exposure monitoring. Lens supporting horizontal angles up to 106.6° allow you to monitor large areas at a glance.

Height / Face Surveillance

Pinhole camera can be easily adjusted to eye level, giving a clearer view of the face, even when a person is wearing a cap or hood. It can be easily adjusted to fit the eye level, and the height of the subject can be recognized through the strip marked on the camera.

Special - PINHOLE



	2M IP Pinhole Camera NST9-52 (2.8 3.7 mm)	5M IP Height Indicator Strip Pinhole NST10-65	5M IP Door Surveillance Pinhole NST11-65
Image Device	1/2.8" 2.13M CMOS	1/2.8" 5.14M CMOS	1/2.8" 5.14M CMOS
Total Pixels	1945 (H) x 1109 (V)	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)
Focal Length	2.8mm, F2.2 / 3.7mm, F2.5	3.7mm, F2.0 / Fixed	3.7mm, F2.0 / Fixed
MIN.Illumination	2.8mm, 0.065Lux (F2.2) 3.7mm, 0.094Lux (F2.5)	Color : 0.16Lux / BW : 0Lux (F2.0)	Color : 0.16Lux / BW : 0Lux (F2.0)
Horizontal Angle	2.8mm : 106 / 3.7mm : 84	82.3°	82.3°
Day & Night	Digital Day & Night	-	-
WDR	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	-	-	-
Event Trigger	Motion Alarm, Network disconnection, Temperature critical	Motion Alarm, Network disconnection, Temperature critical	Motion Alarm, Network disconnection, Temperature critical
Edge Storage	Micro SD	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af Class3	DC 12V PoE IEEE 802.3af class2	DC 12V PoE IEEE 802.3af class2
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS	FCC, CE, ROHS
Dimensions (D x H)	MAIN : 107 x 124 mm (H) 36 mm SENSOR : Ø28.1 (H) 27.8mm(3.7mm), 27.5 mm(2.8mm) Cable Length : 6.5m	860 x 47mm	190 x 50.3mm
Weight	0.42kg	0.9kg	0.4kg
Material	Plastic	Aluminum	Plastic

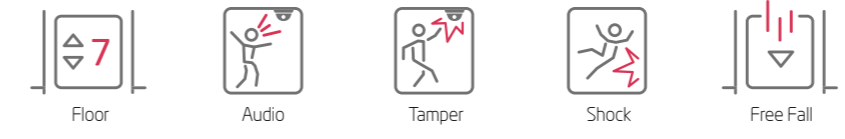
AI MACHINE LEARNING ELEVATOR CAMERA



NVD7-22-RE

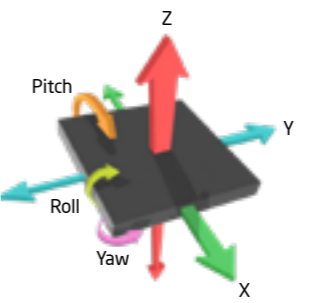
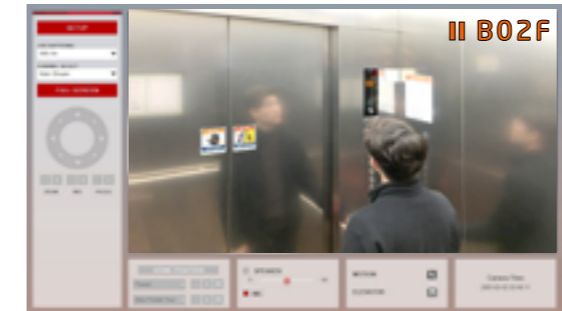


AI 3-Axis sensor



Detection Anomalous signs by sound & vibration

Detects anomalies in the elevator with sound and vibration.



Cognition of elevator layer by the machine-running

The cameras installed in the elevator can detect vibrations and use the machine running to apprehend the number of floors. Displayed Floor information image as a message and meta data is communicated via Onvif, RTSP.

Providing data by recording mileage for an inspection

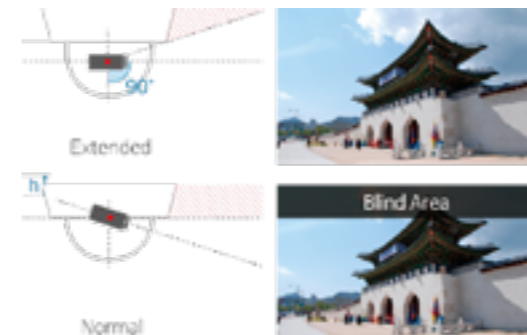
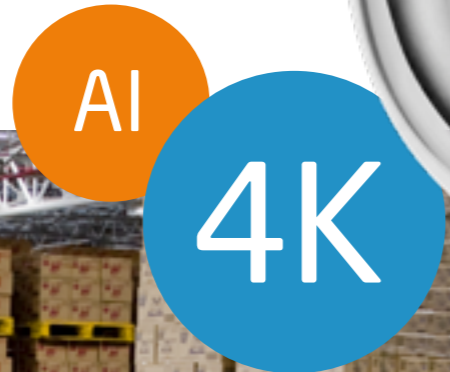
A camera provides a total distance traveled from the installation, and this data helps to determine a time of safety inspection service.

Dome - Elevator



	2M IP IR Mini Dome NVD7-22-RE (2.1 2.8mm)
Image Device	1/2.8" 2.13M CMOS
Total Pixels	1945 (H) x 1109 (V)
Focal Length	2.1mm, F2.3 / 2.8mm, F2.0
MIN.Illumination	2.1mm, 0.07Lux 2.8mm, 0.05Lux, 0Lux with IR
Horizontal Angle	2.1mm : 147° / 2.8mm : 115°
IR	H 2 IR
IR Distance	60ft (2.8mm only)
Day & Night	TDN (True Day & Night) (2.8mm only)
WDR	WDR (2x)
DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG
Audio In / Out	1(Mic) / 0
Event Trigger	Motion Alarm, Network disconnection, Temperature critical
Edge Storage	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af Class2
Operating Temp	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66
Dimensions (W x H)	105 x 60.7mm
Weight	0.36kg
Material	Aluminum

4K HIGH POWER LED DOME



Aspheric Bubble (Patent)

Supports 90 degree tilt angle with any kind of dome cameras at even high definition resolution.

High Power LEDs + Anti IR Reflection

Gives maintaining as the smallest mechanical perspective with enough ways for IR impact and Proprietary IR reflection dedicated materials prevent any kind of unpredictable IR reflection.



Advanced Multiple Axis Gimbal

Panning, Tilting and rotating of gimbal is even more easily controllable than previous generation of gimbal.

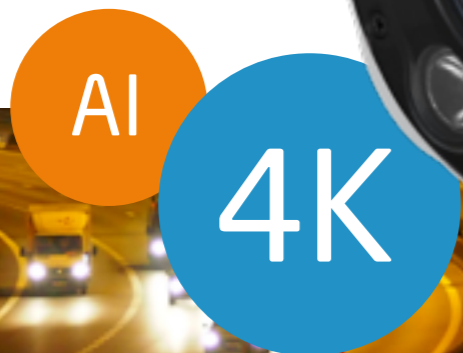
Utilize Existing Lan Cable

It enables you to make use of existing Lan cable.

Dome - Space IX

	AI	4K	4K	4K
	AI 8M IP IR Flat Dome NVD13-78-R	8M IP IR Flat Dome NVD13-58-RS DWC-MPVCBwiATW	8M IP IR Flat Dome NVD13-58-RS (2.8 4.0mm)	8M IP IR Flat Dome NVD13-58-R
Image Device	1/2.8" 8.46M CMOS	1/1.8" 8.41M CMOS	1/1.8" 8.41M CMOS	1/2.8" 8.46M CMOS
Total Pixels	3864 (H) x 2228 (V)	3952 (H) x 2320 (V)	3952 (H) x 2320 (V)	3864 (H) x 2228 (V)
Focal Length	2.7~13.5mm, F1.4 / MFZ, P - IRIS	3.6 ~ 10mm, F1.5 / MFZ, P - IRIS	2.8mm, 4.0mm / F2.0	2.7~13.5mm, F1.4 / MFZ, P - IRIS
MIN.Illumination	Color : 0.09Lux / BW : 0 Lux (F1.4)	Color : 0.09Lux / BW : 0 Lux (F1.5)	Color : 0.1Lux / BW : 0 Lux (F1.6)	Color : 0.09Lux / BW : 0 Lux (F1.4)
Horizontal Angle	90.3° (W) ~ 33.1° (T)	98.4° (W) ~ 45.7° (T)	105.4° / 48.6°	90.3° (W) ~ 33.1° (T)
IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR
IR Distance	70ft	70ft	70ft	70ft
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1(Mic) / 1	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1
Video Output	CVBS 1.0V p-p	CVBS 1.0V p-p	CVBS 1.0V p-p	CVBS 1.0V p-p
Edge Storage	SD / SDHC / SDXC	SD / SDHC / SDXC	SD / SDHC / SDXC	SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66
Dimensions (W x H)	125 x 92mm	125 x 92mm	125 x 92mm	125 x 92mm
Weight	0.52 kg	0.52 kg	0.52 kg	0.52 kg
Material	Aluminum	Aluminum	Aluminum	Aluminum

4K / LPR / 8X HIGH POWER LED BULLET CAMERA



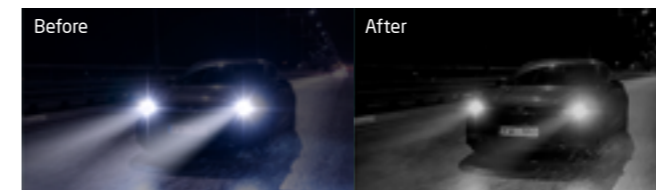
4K Ultra High Resolution

4K provides clearer and more accurate images with resolutions up to four times higher than standard HDTV 1080p resolution. It is becoming a new standard for video security systems that require ultra high resolution smart surveillance.



5MP Sensor and 8x Zoom Support

It is equipped with a 5MP CMOS sensor and supports processing speed up to 30fps to accurately identify fast-moving vehicles and license plates, and shoots license plates more clearly through 8x optical zoom.



License Plate Recognition

A special filter that blocks visible external light and transmits only infrared rays has been applied to minimize license plate blocking caused by car headlights.

DOLCE



	AI 8M IP IR Bullet NBT7-78-R	8M IP IR Bullet NBT7-58-R	5M IP LPR IR Bullet NBT5-45-RL DWC-MB45IALPRT
Image Device	1/2.8" 8.46M CMOS	1/2.8" 8.46M CMOS	1/2.8" 5.14M CMOS
Total Pixels	3864 (H) x 2228 (V)	3864 (H) x 2228 (V)	2704 (H) x 2104 (V)
Focal Length	2.7~13.5mm, F1.4 / MFZ, P-IRIS	2.7~13.5mm, F1.4 / MFZ, P-IRIS	6.0 ~ 50mm / F1.6 / MFZ, P-IRIS
MIN.Illumination	Color : 0.09Lux / BW : 0Lux (F1.4)	Color : 0.09Lux / BW : 0Lux (F1.4)	0 Lux (F1.6)
Horizontal Angle	90.3°(W) ~ 33.1°(T)	90.3°(W) ~ 33.1°(T)	40.8°(W) ~ 6.9°(T)
IR	H 6 IR	H 6 IR	H 6 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	-
WDR	WDR (2x)	WDR (2x)	-
DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output
Video Output	CVBS 1.0V p-p	CVBS 1.0V p-p	CVBS 1.0V p-p
Pan/Tilt/Zoom	Z: X5 Optical	Z: X5 Optical	Z: X8 Optical
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3at class3	DC 12V PoE IEEE 802.3at class3	DC 12V PoE IEEE 802.3af class 3
Operating Temp	-40°C ~ 50°C (Cold Start)	-40°C ~ 50°C (Cold Start)	-40°C ~ 50°C (Cold Start)
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP66
Dimensions (W x H)	310 x 97mm	310 x 97mm	247.2 x 96.7mm
Weight	1.2kg	1.2kg	0.9kg
Material	Aluminum	Aluminum	Aluminum



R&D Center / Korea Factory



Best Quality

Continuous pursuit of the best image quality by video professionals with over 30 years of experience.



Support

QA maintains high quality through continuous education and support, and is responsible for customer impressions and quality.



Good Design

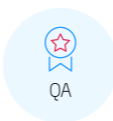
It is easy and convenient to install, and has a sophisticated appearance.



Great Partnership

Inventory, production management, local RMA support and custom OEM projects.

Vietnam Factory



Quality Assurance

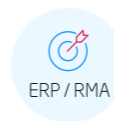
We maintain higher QA standards through intensive training and continuous support.



Clean Room

Clean Room / SMD

Produce products in a clean room and a batch production system that is capable of SMD and mechanism (Plastic/Die Casting) is established.



ERP / RMA

ERP / RMA

We have systematic inventory and production management through ERP, and local RMA support.



Knowhow

Know-How

We are committed to the best video quality by professionals with over 30 years of experience.



R&D CENTER _ South Korea

R&D center based in Pangyo is focused on developing multi-sensor camera technology, while the developed technology has being helped to introduce variety of specialized products in the market. In addition, the R&D center continuously researches and develops IP and coaxial cameras. With over 30 patents of in-house technology, we aggressively invest to develop new technology.

FACTORY _ South Korea

Factory located in Seongnam Korea is committed to keeping higher standard of quality assurance with the production line. We maintain to have various quality tests to ensure our products are guaranteed for customers and support a customer service



CPRO VIETNAM _ Northern Hanoi

Since established the 1st production facility in Hanoi, Vietnam, we have newly founded the 2nd factory in 2017.

VIETNAM FACTORY_ Production, Quality Control

The 2nd factory in Vietnam is capable of producing entire camera assembly and inspection process in a clean room, and is plan to build a mass production system from parts to finished products with SMD and mechanism process.

VCA EDGE

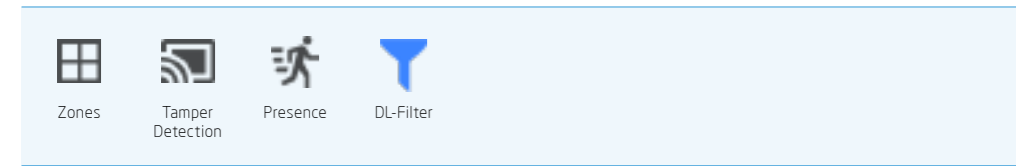


Largest range of AI cameras in the world

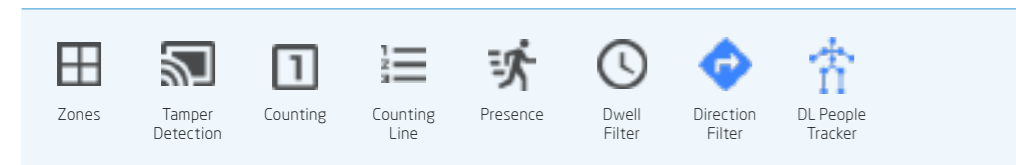
Full range of IP cameras with various analytic rule sets to provide a cost effective and flexible solution for any application.

Presence / Presence

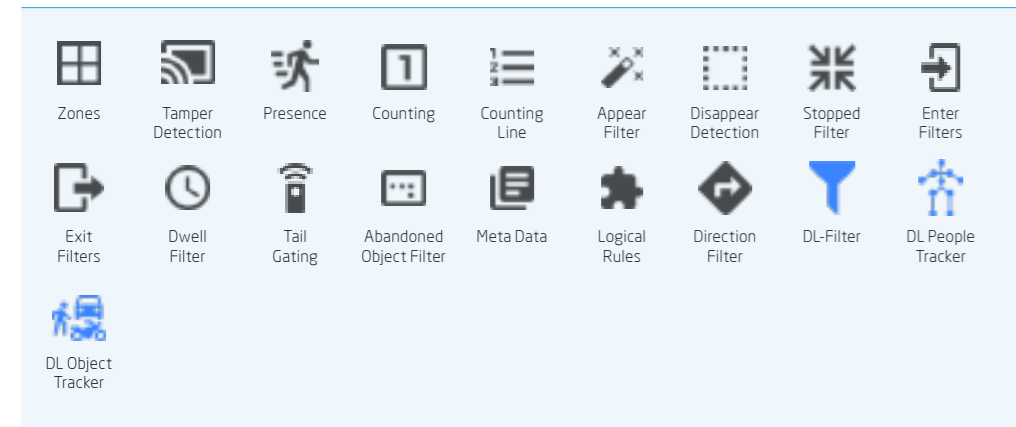
■ Normal ■ AI Deep Learning



Count / Count AI



Pro / Pro AI



SPECIFICATION

* Please check the availability with your account manager.

ANALYTICS _Basic	Analytics Engine	VCA Technology's advanced tracking algorithm with rich library of detection behaviors
	Detection Zones and Rules	40 zones (Multi-segment Polygons and Lines) in total, 60 rules in total as standard
	Intrusion Detection	Detection of the presence of an object
	Tamper Detection	Supported as standard
ANALYTICS _Advanced	Detection Behavior	Enter, Exit, Appear, Disappear, Stop, Direction, Dwell filter, Abandoned object filter, Tailgating
	Logical Rules	Extends standard rules to allow various combinations of the inputs
	3D Behavior	Perspective Corrected Size and Speed Filters
	Object Classification	Configured Max./Min. object sizes and Max./Min. speeds
	People Tracking*	Tracks individuals separately among overlapped multiple people
	Counting Line	High accuracy people and vehicle counting, 20 counters in total
	Meta Data	JSON format, Plain XML format

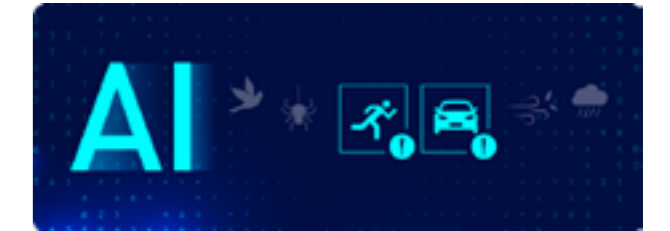
AI Deep Learning Intelligent Video Analytics Camera

Our AI camera is equipped with intelligent video analytics engine (base on DNN: Deep Neural Network) and Ambarella's CV22S SoC with CVflow® architecture filtering and analyzing the data itself as well as video recording.



AI Deep Learning Filter

It detects and classify objects with 98% high accuracy. And it significantly reduces false alarms caused by field noise such as moving light, leaves, spiders, rain, and wildlife. Operators can monitor only the objects and specific events they want, reducing data processing and response time, and maximizing operational efficiency by saving storage space.



DL Object Tracker
Only triggered based on an objects classification (e.g. person, vehicle)



Counting & Direction
Detect flow of vehicles to predict traffic condition



Dwell
Detect objects that have been stopped in danger zone of the workplace.

VCA SERVER

IP Video Management Software (IPVMS)

Apps for all operating systems. Cloud enabled.
Automated. Intuitive. Built for Users.
Auto-discover devices from hundreds of manufacturers.
Open for developers. Integrate anything.



Enterprise features are standard.
DW Spectrum® IPVMS includes many enterprise level features such as;

- Custom user role management
- Multi-server and centralized management
- Health monitor
- Video storage analytic
- Failover: Protects video recording from data loss
- LDAP / active directory
- Video wall



Cross Platform



Seamless Transition



Customizable Layouts



Forensic Spyglass™



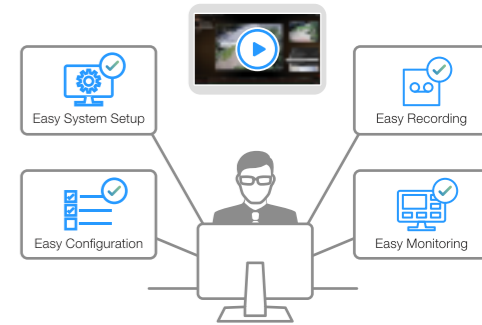
No Annual Maintenance Fees



Enterprise Scalability



Interface is dramatically easier to use.
Highly refined GUI delivers seamless transitions, customizable layouts and zoom to create regions of interest or image enhancements.



Open architecture / Cross platform

DW Spectrum® IPVMS is an endlessly customizable IP Video Management platform that gives users the ability to create tailored networked video solutions for any type of project, or use by anyone, on any device.



End-to-end IP solutions.

Although DW Spectrum® IPVMS is open to be deployed on a vast number of solutions, it is also part of DW's complete end-to-end IP solution, with Blackjack® servers and MEGApix® IP Cameras.



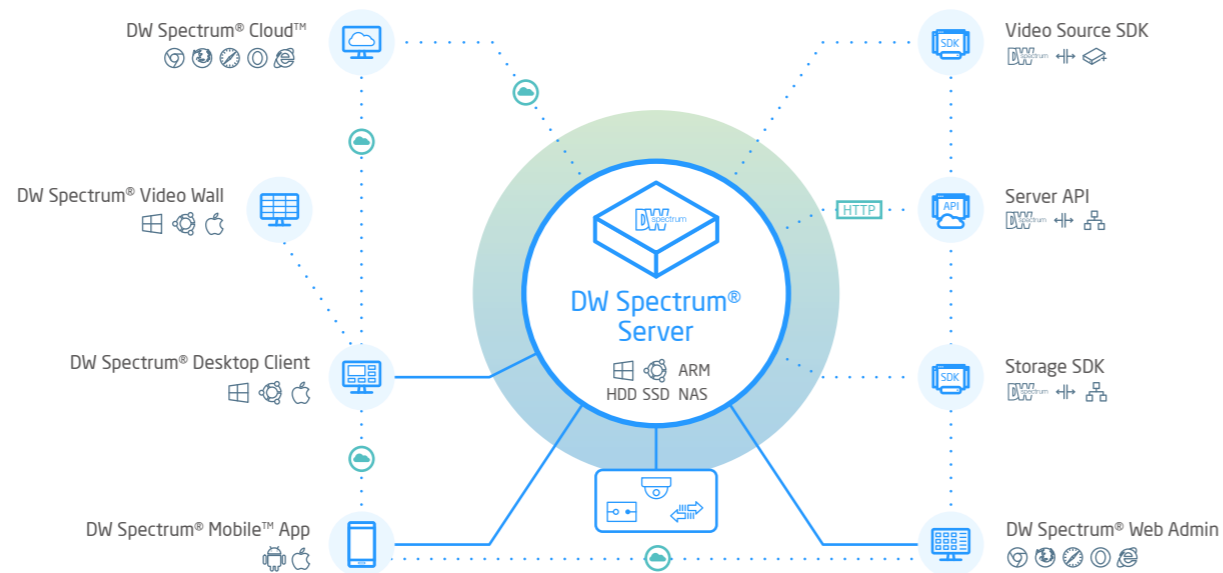
End-to-end IP solutions.

Highly refined GUI delivers seamless transitions, customizable layouts and zoom to create regions of interest or image enhancements.



Lifetime updates included

While other companies require annual maintenance agreements, DW Spectrum® IPVMS system upgrades are always free of charge.



SPECIFICATION

NETWORK	IP Protocols	Static, DHCP, Wireless
	Mobile Applications	Apple® iOS devices: iPad, iPad mini, iPhone, iPod Touch Android® devices: all Smartphones and Tablets
	ONVIF Conformant	
	Network Connection	1000 Mbps
PERFORMANCE	Camera Image Control	Brightness, Contrast, Saturation, Hue, 3D-DNR, WDR, Camera Firmware Upgrade and Reboot
	Firmware Upgrade	USB drive, Network Upgrade, FTP Remote Upgrade
	Playback Resolution	Based on Recording Parameter
	Recording Mode	Continuous, Motion, Motion + Low Resolution Always
	Search Modes	Instant motion-based smart search, Advanced thumbnail search, Calendar search, Preview search, Bookmarks, Frame-By-Frame search
	Special features	Fully customizable layouts, Easy drag-n-drop camera management and recording

VIDEO	Compression type	H.265, H.264, MJPEG, MPEG4
	Pre-alarm recording	Yes
	External export devices	Micro SD card, USB flash drive, USB HDD
	Dual-stream recording	Yes
VIDEO	Maximum supported cameras	Linux®, Windows®, Mac® (client only) Maximum recommended elements in a single system
	Operating system	Maximum recommended servers in a system : 100. Maximum recommended resources in a system : 10,000. Maximum recommended users in a system : 1000. The maximum number of MEGApix® CaaS™ all-in-one edge cameras in a single system is 30 cameras (all in the same local network, using MEGApix CaaS cameras only). Maximum Blackjack® DW-BJMINI in a system : 5 (all in same local network). * The maximums above are based on lab testing results and could vary significantly based on a project's real-world environment.

VCA Edge / IP Cameras



4K



	5M IP IR Dome NVD2-55-R (2.8 4.0mm) DWC-MPVA5Wi2BT	2M IP IR Dome NVD2-22-R DWC-MPVA2WiAT	2M IP IR Dome NVD2-22-R (2.8 4.0 6.0 mm) DWC-MPVA2Wi2BT	5M IP IR Vandal Dome NNK6-45-R DWC-MPV45WiATW	2M IP IR Vandal Dome NNK6-22-R	8M IP IR Flat Dome NVD13-58-R (2.8 4.0 6.0mm)
Image Device	1/2.8" 5.14M CMOS	1/2.8" 2.13M CMOS	1/2.8" 2.13M CMOS	1/2.8" 5.14M CMOS	1/2.8" 2.13M CMOS	1/2.8" 8.46M CMOS
Total Pixels	2704 (H) x 2104 (V)	1945 (H) x 1109 (V)	1945 (H) x 1109 (V)	2704 (H) x 2104 (V)	1945 (H) x 1109 (V)	3864 (H) x 2228 (V)
Focal Length	2.1mm, F1.8 / 4.0mm, F2.0	2.7~13.5mm, F1.8 / MFZ, P - IRIS	2.8mm, F2.0 4.0mm, F2.6 6.0mm, F2.0	2.7~13.5mm, F1.4 / MFZ, P - IRIS	2.8 ~ 12mm, F1.4 / MFZ, P - IRIS	2.8mm, 4.0mm, 6.0mm / F2.0
MIN. Illumination	Color : 0.13Lux(2.8mm) / 0.16Lux(4.0mm)	Color : 0.043Lux / BW : 0 Lux (F1.8)	Color : 0.05Lux / 0.09Lux / 0.05Lux	Color : 0.08Lux / BW : 0 Lux (F1.4)	Color : 0.02Lux / BW : 0 Lux (F1.4)	Color : 0.12Lux / BW : 0 Lux (F2.0)
Horizontal Angle	103° / 82°	93.6° (W) ~ 34.1° (T)	110° / 85° / 53°	96° (W) ~ 31° (T)	96° (W) ~ 35° (T)	105.4° / 85.8° / 54.6°
IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.265, H.264, MJPEG
Audio In / Out	N/A	N/A	N/A	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	N/A	N/A	N/A	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output
Video Output	N/A	N/A	N/A	CVBS 1.0V p-p	CVBS 1.0V p-p	CVBS 1.0V p-p
Event Notification	FTP, E - mail, SD card	FTP, E - mail, SD card	FTP, E - mail, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-40°C ~ 50°C (Cold Start)	-40°C ~ 50°C (Cold Start)	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP68	FCC, CE, ROHS, IP68	FCC, CE, ROHS, IP66
Dimensions (W x H)	125 x 122mm	125 x 122mm	125 x 122mm	139 x 125.4mm	139 x 125.4mm	125 x 92mm
Weight	0.85kg	0.85kg	0.8kg	1.25kg	1.25kg	0.52 kg
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum



	5M IP IR Flat Dome NVD13-65-R	2M IP IR Flat Dome NVD13-62-R	5M IP IR Flat Dome NVD9-45-R DWC-MPV85WiATW	2M IP IR Flat Dome NVD9-22-R DWC-MPV82WiATW	5M IP IR Flat Dome NVD8-45-R (4.0 8.0 mm) DWC-MPF5Wi4TW	2M IP IR Flat Dome NVD8-22-R (4.0 8.0 mm) DWC-MPF2Wi4TW
Image Device	1/2.8" 5.14M CMOS	1/2.8" 2.13M CMOS	1/2.8" 5.14M CMOS	1/2.8" 2.13M CMOS	1/2.8" 5.14M CMOS	1/2.8" 2.13M CMOS
Total Pixels	2704 (H) x 2104 (V)	1945 (H) x 1109 (V)	2704 (H) x 2104 (V)	1945 (H) x 1109 (V)	2704 (H) x 2104 (V)	1945 (H) x 1109 (V)
Focal Length	2.7~13.5mm, F1.4 / MFZ, P - IRIS	2.7~13.5mm, F1.4 / MFZ, P - IRIS	2.7~13.5mm, F1.4 / MFZ, P - IRIS	2.8 ~ 12mm, F1.4 / MFZ, P-Iris	4.0mm 8.0mm, F2.0	4.0mm, F2.6 8.0mm, F1.6
MIN. Illumination	Color : 0.08Lux / BW : 0 Lux (F1.4)	Color : 0.02Lux / BW : 0 Lux (F1.4)	Color : 0.08Lux / BW : 0 Lux (F1.4)	Color : 0.02Lux / BW : 0 Lux (F1.4)	Color : 0.16Lux / BW : 0 Lux (F2.0)	Color : 0.09Lux (F2.6) / 0.03Lux (F1.6)
Horizontal Angle	98.3° (W) ~ 31.6° (T)	107.9° (W) ~ 34.1° (T)	96° (W) ~ 31° (T)	96° (W) ~ 35° (T)	82.3° / 37.8°	86° / 40°
IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR	8 IR	8 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1(Mic) / 1	1(Mic) / 1	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output
Video Output	CVBS 1.0V p-p	CVBS 1.0V p-p	CVBS 1.0V p-p	CVBS 1.0V p-p	CVBS 1.0V p-p	CVBS 1.0V p-p
Event Notification	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class2
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66
Dimensions (W x H)	125 x 92mm	125 x 92mm	125 x 92mm	125 x 92mm	125 x 74.3mm	125 x 74.3mm
Weight	0.51kg	0.51kg	0.51kg	0.51kg	0.42kg	0.42kg
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

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	5M IP IR Mini Dome NVD7-45-R (2.8 4.0 6.0 8.0 mm) DWC-MPV75Wi28/4/6TW	2M IP IR Mini Dome NVD7-22-R (2.8 4.0 6.0 8.0 mm) DWC-MPV72Wi28/4/6TW	2M IP X3 PTZ NPX3-52	5M IP IR Bullet NBT5-45-RZ DWC-MPB45Wi650T	5M IP IR Bullet NBT5-45-R DWC-MPB45WiAT	2M IP IR Bullet NBT5-22-RZ
Image Device	1/2.8" 5.14M CMOS	1/2.8" 2.13M CMOS	1/2.8" 2.13M CMOS	1/2.8" 5.14M CMOS	1/2.8" 5.14M CMOS	1/2" 2.13M CMOS
Total Pixels	2704 (H) x 2104 (V)	1945 (H) x 1109 (V)	1945 (H) x 1109 (V)	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)	1945 (H) x 1109 (V)
Focal Length	2.8mm, F1.8 etc : F2.0	2.8mm, F2.0 4.0mm, F2.6 6.0mm, F2.0 8.0mm, F1.6	2.8~8mm, F1.95~F2.65 / MFZ, P-IRIS	6.0 ~ 50mm / F1.6 / MFZ, P-IRIS	2.7~13.5mm, F1.4 / MFZ, P-IRIS	6~50mm, F1.6 / MFZ, P-IRIS
MIN. Illumination	Color : 0.13Lux (2.8mm) / 0.16Lux (etc)	Color : 0.05Lux / 0.09Lux / 0.05 / 0.03Lux	Color : 0.03Lux / BW : 0.006Lux (F1.6)	Color : 0.08Lux / BW : 0Lux (F1.6)	Color : 0.08Lux / BW : 0Lux (F1.4)	Color : 0.04Lux / BW : 0Lux (F1.6)
Horizontal Angle	102.4° / 82.3° / 51.9° / 37.8°	115° / 86° / 55° / 40°	114.7°(W) ~ 59.3°(T)	40.8°(W) ~ 6.9°(T)	85°(W) ~ 31°(T)	44.8°(W) ~ 6.7°(T)
IR	H 2 IR	H 2 IR	N/A	H 6 IR	H 6 IR	H 6 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	N/A	1(Mic) / 0	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	N/A	N/A	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output
Video Output	N/A	N/A	N/A	CVBS 1.0V p-p	CVBS 1.0V p-p	CVBS 1.0V p-p
Event Notification	FTP, E - mail, SD card	FTP, E - mail, SD card	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class2	DC 12V PoE IEEE 802.3at class3	DC 12V PoE IEEE 802.3af class 3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-40°C ~ 50°C (Cold Start)	-40°C ~ 50°C (Cold Start)	-40°C ~ 50°C (Cold Start)
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66
Dimensions (W x H)	105 x 60.7mm	105 x 60.7mm	125 x 116mm	247.2 x 96.7mm	247.2 x 96.7mm	247.2 x 96.7mm
Weight	0.36kg	0.36kg	1kg	0.9kg	0.9kg	0.9kg
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum



	2M IP IR Bullet NBT5-22-RS	2M IP IR Bullet NBT5-22-R	5M IP IR Mini Bullet NB14-65-R (2.8mm 4.0mm)	2M IP IR Mini Bullet NB14-62-R (2.8mm 4.0mm)	IP Thermal Mini Bullet NBH1-50 (200 / 320)	5M IP Indoor IR Dome NNK5-45-R
Image Device	1/2" 2.13M CMOS	1/2.8" 2.13M CMOS	1/2.8" 5.14M CMOS	1/2.8" 2.13M CMOS	200 (H) X 150 (V) / 320 (H) X 240 (V)	1/2.8" 5.14M CMOS
Total Pixels	1952 (H) x 1113 (V)	1945 (H) x 1109 (V)	2704 (H) x 2104 (V)	1945 (H) x 1109 (V)	200 (H) x 150 (V) / 320 (H) x 240 (V)	2704 (H) x 2104 (V)
Focal Length	3.6~10mm, F1.5 / MFZ, P-IRIS	2.8~12mm, F1.4 / MFZ, P-IRIS	2.8mm, F1.8 4.0mm, F2.0	2.8mm, F2.0 4.0mm, F2.6	4.0mm, F1.0 / Fixed	2.7 ~ 13.5mm, F1.4 / MFZ, P - IRIS
MIN. Illumination	Color : 0.01Lux / BW : 0Lux (F1.5)	Color : 0.02Lux / BW : 0Lux (F1.4)	Color : 0.13Lux (F1.8) / 0.16Lux (F2.0)	Color : 0.05Lux (F2.0) / 0.09Lux (F2.6)	-	Color : 0.08Lux / 0 Lux (F1.4)
Horizontal Angle	92°(W) ~ 42.4°(T)	96°(W) ~ 35°(T)	102.4° / 82.3°	111° / 86°	35° / 56°	96° (W) ~ 31° (T)
IR	H 6 IR	H 6 IR	H 2 IR	H 2 IR	-	H 2 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	-	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	-	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	-	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	N/A	N/A	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output	1 Input / 1 Output	N/A	N/A	1 Input / 1 Output	1 Input / 1 Output
Video Output	CVBS 1.0V p-p	CVBS 1.0V p-p	N/A	N/A	CVBS 1.0V p-p	CVBS 1.0V p-p
Event Notification	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp	-40°C ~ 50°C (Cold Start)	-40°C ~ 50°C (Cold Start)	-20°C ~ 50°C	-20°C ~ 50°C	-40°C ~ 50°C	-40°C ~ 50°C (Cold Start)
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP66	FCC, CE, ROHS
Dimensions (W x H)	247.2 x 96.7mm	247.2 x 96.7mm	172.5 x 72mm	172.5 x 72mm	210 x 74mm	120 x 92.4mm
Weight	0.9kg	0.9kg	0.66kg	0.66kg	0.61kg	0.3kg
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Plastic

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	2M IP Indoor IR Dome NNK5-22-R	2M IP Box NCB2-22	5M IP IR Mini Dome NVD7-75-R (2.8 4.0 6.0 8.0 mm)	4K IP IR Junction Dome NNK7-78-R	4K IP IR Junction Bullet NBT8-78-R
Image Device	1/2.8" 2.13M CMOS	1/2.8" 2.13M CMOS	1/2.8" 5.14M CMOS	1/2.8" 8.46M CMOS	1/2.8" 8.46M CMOS
Total Pixels	1945 (H) x 1109 (V)	1945 (H) x 1109 (V)	2704 (H) x 2104 (V)	3864 (H) x 2228 (V)	3864 (H) x 2228 (V)
Focal Length	2.8 ~ 12mm, F1.4 / MFZ, P - IRIS	-	2.8mm, F1.8 etc : F2.0	2.7~13.5mm, F1.4 / MFZ, P - IRIS	2.7~13.5mm, F1.4 / MFZ, P - IRIS
MIN. Illumination	Color : 0.02Lux / BW : 0 Lux (F1.4)	Color : 0.016Lux, BW : 0.001 (F1.2)	Color : 0.13Lux (2.8mm) / 0.16Lux (etc)	Color : 0.09Lux / BW : 0 Lux (F1.4)	Color : 0.09Lux / BW : 0 Lux (F1.4)
Horizontal Angle	96° (W) ~ 35° (T)	-	102.4° / 82.3° / 51.9° / 37.8°	90.3° (W) ~ 33.1° (T)	90.3° (W) ~ 33.1° (T)
IR	H 2 IR	-	H 2 IR	H 2 IR	H 6 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1[1.0Vms, 3K ohm] / 1	1[1.0Vms, 3K ohm] / 1	1(Mic) / 1	1(Mic) / 1	1[1.0Vms, 3K ohm] / 1
Alarm In / Out	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output	1 Input / 1 Output
Video Output	CVBS 1.0V p-p	CVBS 1.0V p-p	N/A	CVBS 1.0V p-p	CVBS 1.0V p-p
Event Notification	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class2	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp	-40°C ~ 50°C (Cold Start)	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-40°C ~ 50°C (Cold Start)
Certification	FCC, CE, ROHS	FCC, CE, ROHS	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP67
Dimensions (W x H)	120 x 92.4mm	125 x 75 x 60mm	105 x 60.7mm	146 x 130mm	297.6 x 147mm
Weight	0.3kg	0.45kg	0.36kg	1.25kg	1.5kg
Material	Plastic	Aluminum	Aluminum	Aluminum	Aluminum

HD ANALOG

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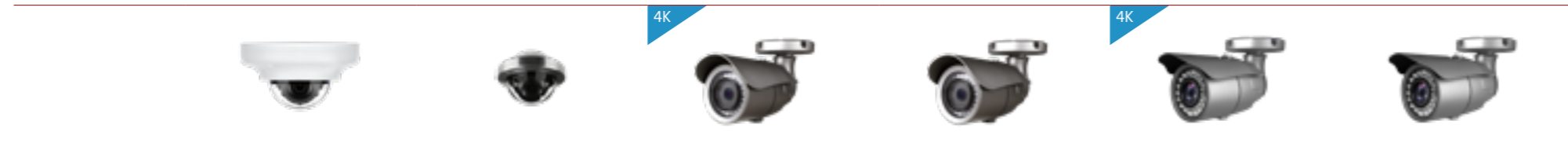


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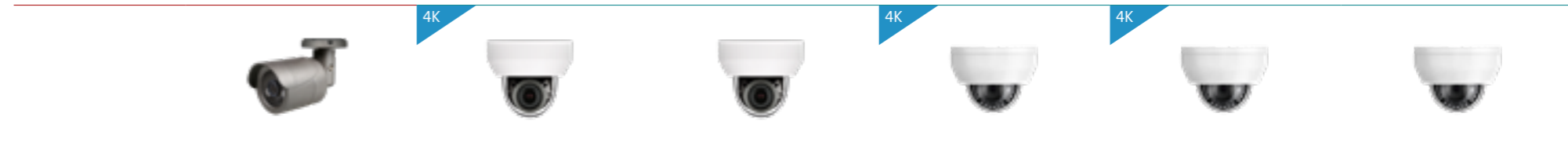


	8M HD Analog AF IR Dome CVD2-28-RS DWC-VA883WTIR	5M HD Analog AF IR Dome CVD2-25-R DWC-VA583WTIR	8M HD Analog IR Dome CVD1-28-RS (2.8 4.0 6.0 mm)	5M HD Analog IR Dome CVD1-25-R (4.0 mm)	8M HD Analog IR Dome CVD5-28-RS DWC-V6863WTIRW	5M HD Analog IR Dome CVD5-25-R DWC-V6563WTIR
Image Device	1/1.8" 8.0M CMOS	1/2.8" 5.0M CMOS	1/1.8" 8.0M CMOS	1/2.8" 5.0M CMOS	1/1.8" 8.0M CMOS	1/2.8" 5.0M CMOS
Total Pixels	3952 (H) x 2320 (V)	2704 (H) x 2104 (V)	3952 (H) x 2320 (V)	2704 (H) x 2104 (V)	3952 (H) x 2320 (V)	2704 (H) x 2104 (V)
Active Pixels	3864 (H) x 2176 (V)	2608 (H) x 1960 (V)	3864 (H) x 2176 (V)	2608 (H) x 1960 (V)	3864 (H) x 2176 (V)	2608 (H) x 1960 (V)
Focal Length	3.6 ~ 10mm, F1.5 / MFZ, P-IRIS	2.7 ~ 13.5mm, F1.4 / MFZ, P - IRIS	2.8mm 4.0mm 6.0mm, F1.6 / Fixed	4.0mm, F2.0 / Fixed	3.6 ~ 10mm, F1.6 / Vari-Focal	2.7 ~ 13.5mm, F1.4 / Vari-Focal
MIN. Illumination	Color : 0.09Lux / BW : 0 Lux (F1.5)	Color : 0.08Lux / BW : 0 Lux (F1.4)	Color : 0.1Lux / BW : 0 Lux (F1.6)	Color : 0.16Lux / BW : 0 Lux (F2.0)	Color : 0.1Lux / BW : 0 Lux (F1.6)	Color : 0.08Lux / BW : 0 Lux (F1.4)
Horizontal Angle	98.4° (W) ~ 45.7° (T)	85° (W) ~ 32° (T)	106.5° / 85.7° / 54.6°	82°	100.3° (W) ~ 46.4° (T)	122.4° (W) ~ 40.8° (T)
Shutter Speed	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000
IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR	24 IR	24 IR
IR Distance	80ft	80ft	70ft	70ft	100ft	100ft
AGC	Max 60dB	Max 72dB	Max 60dB	Max 72dB	Max 60dB	Max 72dB
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	Line WDR	Double Scan WDR	Line WDR	Double Scan WDR	LineWDR	Double Scan WDR
DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR
Alarm In / Out	N/A	N/A	N/A	N/A	N/A	N/A
Video Output	AHD / TVI / CVI Max 2160p(12.5/15fps)	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)	AHD / TVI / CVI Max 2160p(12.5/15fps)	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)	AHD / TVI / CVI Max 2160p(12.5/15fps)	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)
Power	DC 12V / AC 24V Dual Voltage	DC 12V / AC 24V Dual Voltage	DC 12V Voltage	DC 12V Voltage	DC 12V / AC 24V Dual Voltage	DC 12V / AC 24V Dual Voltage
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66
Dimensions (W x H)	125 x 122mm	125 x 122mm	125 x 103mm	125 x 103mm	145 x 108.3mm	145 x 108.3mm
Weight	0.72Kg	0.72Kg	0.42Kg	0.42Kg	0.9Kg	0.9Kg
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

HD ANALOG



	5M HD Analog IR Mini Dome CVD7-25-R (4.0 mm) DWC-V7553WTIR	5M HD Analog Indoor Micro IR Dome CVD4-25-R (4.0 mm) DWC-MC553WTIR	8M HD Analog IR Bullet CBT1-28-RS (2.8 4.0 6.0 mm) DWC-B6853WTIR	5M HD Analog IR Bullet CBT1-25-R DWC-B6553WTIR	8M HD Analog IR Bullet CBT3-28-RS DWC-B6883WTIR	5M HD Analog IR Bullet CBT3-25-Z DWC-B6563WTIR650
Image Device	1/2.8" 5.0M CMOS	1/2.8" 5.0M CMOS	1/1.8" 8.0M CMOS	1/2.8" 5.0M CMOS	1/1.8" 8.0M CMOS	1/2.8" 5.0M CMOS
Total Pixels	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)	3952 (H) x 2320 (V)	2704 (H) x 2104 (V)	3952 (H) x 2320 (V)	2704 (H) x 2104 (V)
Active Pixels	2608 (H) x 1960 (V)	2608 (H) x 1960 (V)	3864 (H) x 2176 (V)	2608 (H) x 1960 (V)	3864 (H) x 2176 (V)	2608 (H) x 1960 (V)
Focal Length	4.0mm, F2.0 / Fixed	4.0mm, F2.0 / Fixed	2.8mm 4.0mm 6.0mm, F1.6 / Fixed	2.7 ~ 13.5mm, F1.4 / Vari-Focal	3.6 ~ 10mm, F1.5 / MFZ, P-IRIS	6.0 ~ 50mm, F1.6 / Vari-Focal
MIN. Illumination	Color : 0.16Lux / BW : 0 Lux (F2.0)	Color : 0.16Lux / BW : 0 Lux (F2.0)	Color : 0.1Lux / BW : 0 Lux (F1.6)	Color : 0.08Lux / BW : 0 Lux (F1.4)	Color : 0.09Lux / BW : 0 Lux (F1.5)	Color : 0.1Lux / BW : 0 Lux (F1.6)
Horizontal Angle	82°	82°	106.5° / 85.7° / 54.6°	122.4° (W) ~ 40.8° (T)	98.4° (W) ~ 45.7° (T)	50.6° (W) ~ 6.2° (T)
Shutter Speed	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000
IR	H 2 IR	H 2 IR	20 IR	20 IR	35 IR	35 IR
IR Distance	50ft	50ft	100ft	100ft	150ft	150ft
AGC	Max 72dB	Max 72dB	Max 60dB	Max 72dB	Max 60dB	Max 72dB
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	Double Scan WDR	Double Scan WDR	Line WDR	Double Scan WDR	Line WDR	Double Scan WDR
DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR
Alarm In / Out	N/A	N/A	N/A	1 Input / 1 Output	N/A	1 Input / 1 Output
Video Output	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)	AHD / TVI / CVI Max 2160p(12.5/15fps)	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)	AHD / TVI / CVI Max 2160p(12.5/15fps)	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)
Power	DC12V Voltage	DC12V Voltage	DC 12V Voltage	DC 12V / AC 24V Dual Voltage	DC 12V / AC 24V Dual Voltage	DC 12V / AC 24V Dual Voltage
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66
Dimensions (W x H)	105 x 60.7mm	80 x 59.5mm	224.5 x 96.7mm	224.5 x 96.7mm	252 x 96.7mm	252 x 96.7mm
Weight	0.35Kg	0.25Kg	0.65Kg	0.65Kg	0.75Kg	0.75Kg
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum



	5M HD Analog IR Mini Bullet CBI2-25-R (4.0 mm) DWC-B7553WTIR	8M HD Analog AF Indoor IR Dome CNK2-28-RS DWC-B4883WTIRW	5M HD Analog AF Indoor IR Dome CNK2-25-R DWC-B4583WTIR	8M HD Analog Indoor IR Plastic Mini Dome CVP2-28-RS (2.8 4.0 6.0 mm) DWC-D3853WTIRW	8M HD Analog Indoor IR Plastic Mini Dome CVP2-28-RS DWC-D3863WTIRW	5M HD Analog Indoor IR Plastic Mini Dome CVP2-25-R DWC-D3563WTIR
Image Device	1/2.8" 5.0M CMOS	1/1.8" 8.0M CMOS	1/2.8" 5.0M CMOS	1/1.8" 8.0M CMOS	1/1.8" 8.0M CMOS	1/2.8" 5.0M CMOS
Total Pixels	2704 (H) x 2104 (V)	3952 (H) x 2320 (V)	2704 (H) x 2104 (V)	3952 (H) x 2320 (V)	3952 (H) x 2320 (V)	2704 (H) x 2104 (V)
Active Pixels	2608 (H) x 1960 (V)	3864 (H) x 2176 (V)	2608 (H) x 1960 (V)	3864 (H) x 2176 (V)	3864 (H) x 2176 (V)	2608 (H) x 1960 (V)
Focal Length	4.0mm, F2.0 / Fixed	3.6 ~ 10mm, F1.5 / MFZ, P-IRIS	2.7 ~ 13.5mm, F1.4 / MFZ, P - IRIS	2.8mm 4.0mm 6.0mm, F1.6 / Fixed	3.6 ~ 10mm, F1.6 / Vari-Focal	2.7 ~ 13.5mm, F1.4 / P - IRIS
MIN. Illumination	Color : 0.16Lux / BW : 0 Lux (F2.0)	Color : 0.09Lux / BW : 0 Lux (F1.5)	Color : 0.08Lux / BW : 0 Lux (F1.4)	Color : 0.1Lux / BW : 0 Lux (F1.6)	Color : 0.1Lux / BW : 0 Lux (F1.6)	Color : 0.08Lux / BW : 0 Lux (F1.4)
Horizontal Angle	82°	98.4° (W) ~ 45.7° (T)	85° (W) ~ 32° (T)	106.5° / 85.7° / 54.6°	100.3° (W) ~ 46.4° (T)	122.4° (W) ~ 40.8° (T)
Shutter Speed	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000	1 / 30 (25) ~ 1 / 30,000
IR	H 2 IR	H 2 IR	H 2 IR	24 IR	24 IR	24 IR
IR Distance	70ft	70ft	70ft	100ft	100ft	100ft
AGC	Max 72dB	Max 60dB	Max 72dB	Max 60dB	Max 60dB	Max 72dB
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	Double Scan WDR	Line WDR	Double Scan WDR	Line WDR	Line WDR	Double Scan WDR
DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR	3D / 2D - DNR
Alarm In / Out	N/A	N/A	1 Input / 1 Output	N/A	N/A	1 Input / 1 Output
Video Output	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)	AHD / TVI / CVI Max 2160p(12.5/15fps)	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)	AHD / TVI / CVI Max 2160p(12.5/15fps)	AHD / TVI / CVI Max 2160p(12.5/15fps)	AHD / TVI / CVI / CVBS Max 1944p(12.5/20fps)
Power	DC 12V Voltage	DC 12V / AC 24V Dual Voltage	DC 12V / AC 24V Dual Voltage	DC 12V Voltage	DC 12V / AC 24V Dual Voltage	DC 12V / AC 24V Dual Voltage
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS	FCC, CE, ROHS	FCC, CE, ROHS	FCC, CE, ROHS	FCC, CE, ROHS
Dimensions (W x H)	163 x 67.5mm	107.8 x 99.1mm	107.8 x 99.1mm	120 x 89.4mm	120 x 89.4mm	120 x 89.4mm
Weight	0.44kg	0.3kg	0.3kg	0.65Kg	0.65Kg	0.65Kg
Material	Aluminum	Plastic	Plastic	Plastic	Plastic	Plastic

Blackjack® X-RACK

Servers Powered by DW Spectrum® IPVMS

- More Camera.
- More Recording.
- Remote Monitoring

By moving local storage to a dedicated NAS unit, the Blackjack® X-Rack™ server can outperform any competing model.



Connect to up to 4 Blackjack® NAS devices

Blackjack® X-Rack™ servers are designed to connect up to four (4) Blackjack® NAS devices, providing up to 560TB for recording and backup.



Hot-Swappable SSDs

When a drive needs to be replaced, you can easily hot-swap it with a new one, while the system is still running. There is no need to power down and lose important minutes of data to maintain your system's drives healthy and operating.



Max throughput and IP camera support

The Blackjack® X-Rack™ records and manages single- and multisensor IP cameras of any resolution up to 200 2.1MP/1080p cameras at 30fps and a maximum of 1200Mbps throughput.



Dual power supply

Dual power supply provides redundancy for network reliability.



DW Spectrum® IPVMS

DW Spectrum® IPVMS is an endlessly customizable IP Video Management platform that gives users the ability to create tailored network video solutions for any type of project, from the office or on in the field.



Remote monitoring via Blackjack® Client™

Combine the Blackjack® X-Rack™ with the Blackjack® Client™ appliance for powerful remote monitoring of your system.

Server



Blackjack X-Rack 2U
DW-BJX2U

Maximum IP Cameras		200
Included IP Licences		8
Operating System	Windows Server 2016	BW-BJX2U
	OS on SSD	2x SSD (RAID1 mirrored), hot-swappable bays with lock
CPU		Intel Xeon® Processor with 8 Cores
Memory		32GB DDR4 ECC
Ethernet Port		Option: DW-MEM32GX - 32GB (2x 16GB) memory upgrade Kit*
		2 x 10Gigabit Ethernet (RJ45)**
		Option: DW-R10NIC - secondary 10Gbps RJ45 port*
System	Max video storage rate (Mbps)	1200 Mbps
Storage	Max DW-BJNAS rack connections	4 (up to 560TB)
Video-Out	Outputs	True HD and DVI output (for initial configuration and server management)
Pre-loaded VMS Software		DW Spectrum® IPVMS
Remote Clients		Cross Platform - Windows®, Linux Ubuntu® and Mac®
Mobile Apps		iOS® and Android®
Keyboard & Mouse & Rail Kit		Included
Power Supply		Dual 380W***, redundant power supply
Operating Temperature		50°F~80°F (10°C~27°C)
Dimension (WxDxH)		17.29" x 21.93" x 3.46"

Blackjack® NAS

NAS storage solutions for Blackjack® server or MEGApix® CaaS server systems*

Blackjack® NAS™ are high-reliability network attached storage devices for Blackjack® Cube™ and Bolt™ servers or MEGApix® CaaS™ edge cameras. The devices act as recording backup for existing DW Spectrum® IPVMS systems. Models offer 4-20TB storage and optional RAID1. The desktop models can be integrated into a Blackjack® system with up to 120Mbps throughput, or a MEGApix® CaaS™ system with up to 12 edge camera servers.

Blackjack® NAS™ 8 and 16-bay rack mount devices integrate easily into a Blackjack® system with a total of up to 600Mbps throughput, the equivalent of up to 128 2.1MP single-sensor IP cameras. The 2U and 3U rack mount models offer up to 160TB storage and RAID, allowing you to record and backup more days of video without the need for additional video recorders.

The Blackjack® NAS™ integrates seamlessly into a DW Spectrum® IPVMS system, allowing for an instant search and data management and is backed by Digital Watchdog's unbeatable 5 year warranty.



Centralize your file storage, sharing and backup with excellent performance.

Blackjack® NAS products offer the ideal supplement for existing systems with optimized network load and continuous archiving. Critical video and audio can be stored for a longer time.



Add and manage recording from DW Spectrum® IPVMS client software

Blackjack® NAS storage devices easily integrate into DW Spectrum® IPVMS software, allowing for simple addition, removal and recording setup all done from the same user-friendly UX of the DW Spectrum® IPVMS client.



Easily Add Storage Capacity

The Blackjack® NAS devices can be implemented into a MEGApix® CaaS™ network with up to 12 cameras, or a Blackjack® Cube™ or Blackjack® Bolt™ network with up to 160Mbps throughput (the equivalent of 32 2.1MP cameras). The Blackjack® NAS offers lower cost and greater flexibility than adding additional servers to an existing system.



Expandable storage with RAID 1 and RAID 5 options

RAID Add extra security to your video surveillance system by protecting recording data and overcoming data loss in the case of a hard drive failure. Easily activate RAID 5 striping with a single click of the mouse.

Server



	Blackjack® NAS 16-Bay DW-BJ16NASxTR	Blackjack® NAS 8-Bay DW-BJ8NASxTR	Blackjack® NAS DW-BJNASxT / DW-BJNASxTR
Operating system	Proprietary Linux® embedded	Proprietary Linux® embedded	Linux® embedded
Form factor	19" Rack Mount (3U)	19" Rack Mount (2U)	Desktop
Maximum hard drives	16x 3.5" hot swappable HDDs	8x 3.5" hot swappable HDDs	2 x SATA HDD
Maximum storage capacity	140TB (16 x 10TB, RAID)	70TB (8 x 10TB, RAID)	DW-BJNASxT: 20TB (2x 10TB) DW-BJNASxTR: 10TB (2x 10TB, RAID1)
RAID	RAID 5	RAID 5	RAID1 (DW-BJNASxTR)
Max. recording channel	Max 128 2.1MP cameras with Blackjack® E-Rack™/Blackjack® P-Rack™	Max 128 2.1MP cameras with Blackjack® E-Rack™/Blackjack® P-Rack™	Max 24 2.1MP/1080p IP cameras
Max. recording bandwidth	Max. 600Mbps throughput	Max. 600Mbps throughput	Max. 120Mbps throughput
LED indicators	Power, activity and status (error)	Power, activity and status (error)	HDD status, power
LCD	RAID status, HDD status, network status (IP info), model info (model name and serial number), firmware info	RAID status, HDD status, network status (IP info), model info (model name and serial number), firmware info	---
Audible alert	RAID error	RAID error	---
E-mail notifications (optional)	HDD status	HDD status	---
Remote configuration	Blackjack® NAS web management console, DW IP Finder™	Blackjack® NAS web management console, DW IP Finder™	Blackjack® NAS web management console, DW IP Finder™
Supported IPVMS	DW Spectrum® IPVMS	DW Spectrum® IPVMS	DW Spectrum® IPVMS
Operating temperature	41°F~104°F (5°C~40°C)	41°F~104°F (5°C~40°C)	41°F~104°F (5°C~40°C)
Power supply	Single SMPS 250W 100 ~ 240 VAC, 50/60 Hz, 4.0~1.5A at 100/240VAC	Single SMPS 250W 100 ~ 240 VAC, 50/60 Hz, 4.0~1.5A at 100/240VAC	DC 12V 36W, 3A
Power consumption			
Dimensions (WxDxH)	17.4" x 5.2" x 23.4"	17.4" x 3.5" x 18.0"	9.84" x 10.74" x 1.96"
Weight	35.3lbs	19.4lbs	3.3lbs



Plug and Play IP NVRs, Managed from Anywhere.

The VMAX® IP Plus™ is an easy to use PoE NVR that allows you to go from power up to monitoring in less than three minutes!

The VMAX® IP Plus™ can record up to 5MP IP cameras and 2.1MP/1080p cameras at real-time 30fps. The NVRs are available in 4-, 8- and 16-channel models with bonus local PoE management for up to five additional channels.



PathFinder™
Easy and secure peer-to-peer remote connection without opening ports.



Status Monitoring
A real-time graphical representation of all system connections. Receive connection alerts via email or text.



Megapixel resolution
DW's technology delivers crystal-clear images in resolutions up to 5MP. Higher resolution delivers forensic details when zooming into the camera's field of view.



Camera Group Recording
Designate a group of cameras to respond to an alert from one camera.



CCIP™
CCIP™ (Closed Circuit Internet Protocol) system encryption protects your surveillance system from out of network attacks.



DW Witness™
The DW® Witness™ app instantly turns your smartphone or tablet into a video surveillance camera. With the press of a button, start transmitting live video to your VMAX® IP Plus™. It's a "black box" for personnel on patrol.

NVR



	VMAX IP Plus VP16xT16P	VMAX IP Plus VP12xT8P	VMAX IP Plus VP9xT4P	
Operating system	Embedded Linux®	Embedded Linux®	Embedded Linux®	
System	Channel	16 channels PoE	8 channels PoE + 4 bonus channels	4 Channels PoE + 5 bonus channels
	No. of PoE	16-PoE channels	8-PoE channels	4-PoE channels
Display	Speed	Total 480fps	Total 360fps	Total 270fps
	Screen mode	1, 4, 9, 12 and 16	1, 4, 9 and 12	1, 4 and 9
Max. HDD bay	4 x SATA HDD	2 x SATA HDD	1 x SATA HDD	
Video-in	IP cameras, max 5MP (2592x1920) resolution	IP cameras, max 5MP (2592x1920) resolution	IP cameras, max 5MP (2592x1920) resolution	
Video-out	True HD output, VGA	True HD output, VGA	True HD output, VGA	
Recording speed	960x480/576 (960H): 480fps	960x480/576 (960H): 240fps	960x480/576 (960H): 120fps	
	1280x720 (HD): 480fps	1280x720 (HD): 240fps	1280x720 (HD): 120fps	
	1920x1080 (HD): 480fps	1920x1080 (HD): 240fps	1920x1080 (HD): 120fps	
	2560x1600 (4MP): 240fps	2560x1600 (4MP): 120fps	2560x1600 (4MP): 60fps	
	2560x1944 (5MP): 160fps	2560x1944 (5MP): 80fps	2560x1944 (5MP): 40fps	
Recording resolution	Simultaneous dual stream recording	Simultaneous dual stream recording	Simultaneous dual stream recording	
Audio output	1 output	1 output	1 output	
Alarm input / Relay output	4 inputs / 1 output	4 inputs / 1 output	4 inputs / 1 output	
PTZ control	RS-485, ONVIF	RS-485, ONVIF	RS-485, ONVIF	
LAN	1 x Gigabit ethernet port	1 x Gigabit ethernet port	1 x Gigabit ethernet port	
Power requirements	110~240V AC	48V DC	48V DC	
Power consumption	200W total power budget, 15.4W per PoE port	158.4W total power budget, 15.4W per PoE port	90.24W total power budget, 15.4W per PoE port	
Operating temperature	41~104°F (5~40°C)	41~104°F (5~40°C)	41~104°F (5~40°C)	
Dimension (WxDxH)	16.53" x 15.75" x 3.46"	14.17" x 14.96" x 2.6"	10.39" x 9.65" x 1.73"	



Unlike Any Other™

VMAX® A1 Plus™ DVRs support HD-Analog and HD-TVI signals up to 5MP, and analog up to 960H.

The DVRs offer a seamless upgrade to HD resolution for new ROI from existing coaxial infrastructure. The VMAX® A1 Plus™ can record 1080p video at real-time 30fps. Up the Coax (UTC) remote configuration is available with all compatible cameras. The VMAX® A1 Plus™ DVRs are available in 4-, 8- and 16-channel models with up to 20TB of storage.



PathFinder™ auto port-forwarding
Easy and secure peer-to-peer remote connection without opening ports.



C3™ CMS
C3™ CMS takes video management to the next level. You are in complete command to control all your video surveillance systems in one intuitive interface. Easy-to-program alerts let you take action in real-time and manage the health of your devices.



Camera Group Recording
Designate a group of cameras to respond to an alert from one camera.



Channel Swap
Swap a camera's channel assignment without changing the cable connections.



Mobile Apps and Apple TV
View your system from anywhere with a smartphone or tablet, even on an Apple TV!



Up the Coax(UTC) Communications
Get off the ladder. Make adjustments to your camera from the DVR.

DVR



	VMAX A1 Plus VA1P16xT	VMAX A1 Plus VA1P8xT	VMAX A1 Plus VA1P4xT	
Signals supported	Analog signal up to 960H, HD-Analog and HD-TVI up to 5MP			
Input video	16 channels	8 channels	4 channels	
Video live	Frame rate	1-30fps, max 480fps total	1-30fps, max 240fps total	1-30fps, max 120fps total
Video output	HDMI: up to 3840x2160 (4K), VGA: up to 1920x1080, Spot: D1			
Audio	4 input / 1 output	4 input / 1 output	4 input / 1 output	
Alarm	4 input / 1 output	4 input / 1 output	4 input / 1 output	
Operating system	Embedded Linux®			
Recording	Recording frame rate	960x480/576 (960H): 480fps	960x480/576 (960H): 240fps	960x480/576 (960H): 120fps
		1280x720 (HD): 480fps	1280x720 (HD): 240fps	1280x720 (HD): 120fps
		1920x1080 (HD): 480fps	1920x1080 (HD): 240fps	1920x1080 (HD): 120fps
		2560x1600 (4MP): 240fps	2560x1600 (4MP): 120fps	2560x1600 (4MP): 60fps
		2560x1944 (5MP): 160fps	2560x1944 (5MP): 80fps	2560x1944 (5MP): 40fps
Recording resolutions	HD-analog and HD-TVI up to 5MP cameras and all analog resolutions up to 960H			
Storage	2x SATA HDD / Up to 20TB	1x SATA HDD / Up to 10TB	1x SATA HDD / Up to 10TB	
Access	Web viewer	Live, playback and configuration up to 10 multiple connections		
	Mobile client	Mobile app for Apple® and Android® smart phones and tablets		
	Client monitoring software	Mac® (Apple® S/W), C3™ (CMS S/W)		
Operating temperature	41°F ~ 104°F (5°C ~ 40°C)			
Electrical	Power	DC12V / 60W, 5A	DC12V / 39.6W, 3.3A	DC12V / 18W, 1.5A
Dimensions		15.15" x 12.4" x 1.88" (385 x 315 x 48 mm) (LU)	12.4" x 9.52" x 1.77" (315 x 242 x 45 mm) (LU)	12.4" x 9.52" x 1.77" (315 x 242 x 45 mm) (LU)

ACCESSORIES

Mount		Bracket			Gang	Junction			Angle	Etc	Camera
Corner	Pole	Ceiling	In-Ceiling	Wall	Gang Plate	Juntion_Wall	Juntion_Box	Juntion_Angle	Angle	Sunshield	
BC001	BP01	BC15	BR07 for VM7	BW15		BW16	BJC06				VM7
BC001	BP01	BC15	BR03 for VM5	BW15		BW16	BJC06		BJ14 for VM6		VM5 VM6
BC001	BP01	BC13	BR02 for VM3	BW13	GP02	BJC09 for Wall Bracket	BJC05		BJ13 for VM2		VM2 VM3
BC001	BP01	BC14	BR08	BW14							PX5
BC001	BP01	BC09		BW09	GP02	BJC09 for Wall Bracket	BJC02				VD5
BC001	BP01	BC07	BR04 for NK4 / BR05 for NK6	BW05	GP02	BJC09 for Wall Bracket_VM8			BSH06 for NK4, NK6		VM8 NK4 NK6

Mount		Bracket			Gang	Junction			Angle	Etc	Camera
Corner	Pole	Ceiling	In-Ceiling	Wall	Gang Plate	Juntion_Wall	Juntion_Box	Juntion_Angle	Angle	Sunshield	
				BW06	GP02						NK2 NK5 VP3
				BA02 for VD4				BA03 for VD4 BA04 for VP5			VD4 VP5
BC001	BP01	BC11 for VD7 BC10		BW11 for VD7 BW10	GP02	BJC09 for Wall Bracket	BJC04 for VD7 BJC03	BJC08 for VF2			VD1 VD2 VD7 VD8 VD9 VD11 VD13 VF2 VF13
BC001	BP01						BJC07				BI2 BI3 BI4 BH1
BC001	BP01						BJC01				SF1 BT7 BT5 BT4 BT3 BT1

VERTICAL SOLUTIONS



Hilton Hotels | Hotel

* Model name : CPRO DW

Customer

Hilton Hotels, an American hotel company founded by Conrad Hilton in 1919, has more than 4,600 hotel branches in 100 countries around the world and has partnerships with several airlines and car rental companies.
www.hilton.com

Solution | IP Camera

NVD8-22-R MF21M4TIR

Mercedes Benz | Automotive

Customer

Mercedes-Benz is an automobile manufacturer based in Germany. Its parent company is Daimler AG, and subsidiaries include high-performance division Mercedes-AMG and luxury division Mercedes-Maybach.
www.mercedes-benz.com

Solution | IP Camera

NVD8-22-R MF21M4TIR | CBT4-12-RL LPR650U

National Park Service | Government

Customer

The National Park Service, one of the U.S. federal government agencies, preserves the natural and cultural resources and values of the National Park System for the enjoyment, education, and inspiration of this and future generations.
www.nps.gov

Solution | IP Camera

NNK6-22-R MV421TIR | MV421TIB
NBT5-45-R MB44W650



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End-to-End Solutions provider

We are a reliable security solution partner for a wide variety of customers worldwide.

McDonalds | F&B

Customer

McDonald's, a global fast food chain based in the U.S., one of the world's leading food service brands with more than 36,000 restaurants in more than 100 countries.
www.mcdonalds.com

Solution | IP Camera

NVD9-22-R MV82WIA | NVD7-22-R MV72Wi28A
NVD9-45-R MV85DIA | NNK6-22-R MV421TIR
NVP3-12-R MD72i4V | NVD7-22-R MV72Wi28
NVD8-22-R MF21M4TIR

| Analog Camera

CVD1-12-R D3263WTIR | CBT4-12-RL LPR650U
CVD2-12-R V6263WTIR | NVF2-45-R PVF5M1TIR
CBT1-12-R B6263WTIR



Puma | Fashion

Customer

Puma, a German clothing brand selling sporting goods. With the phrases "Forever Fast" and "World's Fastest Sports Brand", it focuses on sports categories such as golf, motor sports and soccer. Exporting to more than 80 countries around the world.
www.us.puma.com

Solution | IP Camera

CBT5-45-RL MB44iALPR | NVD9-45-R MV84WIA
NVF2-58-R PVF9M2TIR | NVM2-A21 PZ21M69T



T-Mobile | Telecommunications

Customer

T-Mobile, a German wireless service provider providing mobile services in Europe and North America is headquartered in Germany. Founded in 1990, it is a subsidiary of Deutsche Telekom, now has about 110 million subscribers.
www.t-mobile.com

Solution | IP Camera

MF10M36TIR

