

# EX292 HD IP

## Complete fixed camera station



EX292 with optional sunshield

### Overview

Eaton's EX series are highly advanced process and surveillance camera stations that are certified to meet worldwide explosion proof environments.

### Features

- Full HD resolution
- DNV type approval
- EX certified for Zone 1 (gas group IIC) and Zone 21 (dust)
- Digital WDR (wide dynamic range)
- Ex e junction box (optional)
- IR sensitive
- Flexible powering (PoE, 30 VAC, 24 VDC)
- Mounting bracket included
- Automatic day/night function
- Scratch proof, tempered glass
- Auto focus with manual override
- Auto iris with manual override
- Multi-cable accommodated
- Built-in heating
- 20 x optical zoom
- Sunshield (optional)

The EX292 HD IP fixed camera station is certified for use in hazardous areas and its compact design makes it an extremely versatile camera station choice where space is limited or at a premium.

Designed specifically for operation in the most demanding conditions the EX292 HD IP is built from high quality electro polished 316L stainless steel and has scratch resistant tempered window glass. It comes with a built-in heater, flexible low power & PoE options and a mounting bracket as standard.

Additionally the EX292 HD IP carries global Ex and Marine certifications & approvals and when combined with its IP66 & IP67 ingress protection makes it exceptionally resilient to extreme environmental conditions where vibration, humidity, extreme temperature variations and corrosion are a normal occurrence.

Installation is simple and a single cable is sufficient for the transmission of data and power, routed directly to the control cabinet (standard Ethernet cable or Eaton's HERNIS™ multi-cable with power and Ethernet).

The EX292 HD IP can work with illumination as low as 0.01 lux, has 1080p resolution and uses Eaton's HERNIS™ Flex IP control protocol. Additionally the future proof design can facilitate future software upgrades and diagnostics remotely.



## Certifications

<b>Camera</b>	
<b>Ex code</b>	EX II 2 G Ex d IIC T6 Gb
<b>ATEX</b>	Presafe 15 ATEX 6337X
<b>IECEX</b>	IECEX PRE 15.0017X
<b>TR CU</b>	TR CU C-NO.GB05.B00872
<b>INMETRO</b>	INMETRO DNV 14.0080X
<b>Type approval</b>	DNV GL Certificate No: TAA00000C8
<b>Exe junction box (for configuration with jb)</b>	
<b>Ex code</b>	EX II 2 G Ex e IIC T6 Gb
<b>ATEX</b>	DNV 10 ATEX 72715
<b>IECEX</b>	IECEX DNV 10.0003
<b>TR CU</b>	TR CU C-NO.GB05.B00872
<b>INMETRO</b>	DNV 14.0079

## Specifications

### Physical dimensions camera

<b>Weight</b>	5.4 kg
<b>Dimensions (W x H x D)</b>	155 x 192 x 188.5 mm (camera pointed horizontally and with optional sunshield)
<b>Mounting</b>	Upright or hanging - bolts: M8 (not included)
<b>Field cabling</b>	Field cable installation through ATEX/IECEX approved compound gland Gland M20X1.5 for 8.5-21.0mm cables (included)
<b>Recommended HERNIS™ cable</b>	P/N 025223 from camera to jb/central rack
<b>Material &amp; finish</b>	Stainless steel AISI 316L, electro polished

### EX e junction box (for configuration with jb)

<b>Weight</b>	2.3 kg
<b>Dimensions (W x H x D)</b>	200 x 200 x 120 mm
<b>Material &amp; finish</b>	ASIS 316L (stainless steel), thickness 1.5mm
<b>Surface treatment</b>	Grinded/sand blasted stainless steel
<b>Lid/door gasket</b>	Polyurethane
<b>Cable gland</b>	2 x M20 10.5 - 16 mm ATEX glands

### Operating conditions camera

<b>IP protection rate</b>	IP66 / IP67
<b>Humidity</b>	Up to 100%
<b>Operating temperature range</b>	-60° C to +55° C

### For configuration with junction box

<b>Operating temperature range</b>	-50° C to +55° C
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### For configurations with PoE IEEE802.3at

<b>Operating temperature</b>	-20° C to +55° C
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### For configurations with PoE IEEE802.3af

<b>Operating temperature</b>	-10° C to +55° C
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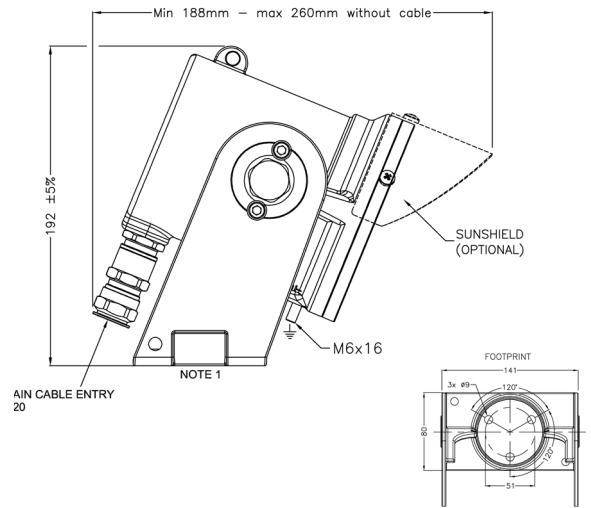
### Camera

<b>Image sensor</b>	1/2.8" progressive scan CMOS
<b>Sync system</b>	Internal
<b>Frame rate</b>	50 Hz: 25 fps (1920 x 1080), 25 fps (1280 x 720) 60 Hz: 30 fps (1920 x 1080), 30 fps (1280 x 720)
<b>Min. illumination</b>	Color: 0.05 lux @ (F1.6, AGC ON) B/W: 0.01 lux @ (F1.6, AGC ON)
<b>S/N ratio / WDR</b>	> 50 dB / WDR

### Lens

<b>Focal length</b>	4.7 - 94 mm, 20 x optical zoom
<b>Aperture range</b>	F1.6 - F3.5
<b>Angle of view</b>	61.4° - 2.9° (wide - tele)
<b>Min. working distance</b>	10 mm - 1500 mm (wide - tele)
<b>Zoom speed</b>	Approx. 2.7 s (optical, wide - tele)
<b>Day &amp; night</b>	IR cut filter auto switch

## General arrangement drawing (all dimensions in mm)



## Specifications

Specifications IP	
<b>Protocol</b>	IPv4/IPv6, TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, IPv6 (SIP, SRTP optional)
<b>Compression</b>	Main stream: H.264 Sub stream: H.264, MJPEG
<b>H.264 compression profile</b>	Main profile, high profile
<b>Dual-streaming</b>	Supported
<b>Video bit rate</b>	256 Kbps - 13 Mbps
<b>Ethernet port</b>	1 RJ45 10M/100M ethernet interface
<b>Electrical data</b>	CAT6 cable, AWG23
<b>Attributes</b>	
<b>Power supply</b>	30 VAC (+10% -30%, 50/60Hz) / 24 VDC (+/-10%) / PoE (IEEE802.3at/af)
<b>Power consumption</b>	30VAC: 7.0W Min, 26W Max (with heater on) 24VDC: 7.0W Min, 31W Max (with heater on) PoE at: 7.0W Min, 20W Max (with heater on) PoE af: 7.0W Min, 7.0W Max (No heater, by setting in RX292) (Temp.-10°C ~ +55°C)
<b>Heat dissipation</b>	30VAC: 7.0W Min, 26W Max (with heater on) 24VDC: 7.0W Min, 31W Max (with heater on) PoE: 7.0W Min, 20W Max (with heater on)
<b>Manual adjustment</b>	Pan/Tilt: 0-360°/65° down from horizontal view and 90° up(opposite for inverse mounting of base)
<b>Accessories</b>	
<b>Optional</b>	Sunshield Safety wire Cable gland Can be delivered with gland entry pointing up or down to choose the most space efficient solution

## Ordering requirements

The following code is designed to help in selection of the correct unit.

<b>HERNIS™ part no:</b>	097161-11 <del>x</del> /466 <del>y</del> <b>y</b> = JB (junction box) <b>y</b> = FL (2.5 m flying lead)
<b>111/466</b>	IP 30VAC 20xZ 1080p
<b>115/466</b>	IP 24VDC 20xZ 1080p
<b>116/466</b>	IP PoE 20xZ 1080p
<b>111/466FL</b>	IP 30VAC 20xZ 1080p with Flying lead
<b>115/466FL</b>	IP 24VDC 20xZ 1080p with Flying lead
<b>116/466FL</b>	IP PoE 20xZ 1080p with Flying lead
<b>111/466JB</b>	IP 30VAC 20xZ 1080p with EXE JB
<b>115/466JB</b>	IP 24VDC 20xZ 1080p with EXE JB
<b>116/466JB</b>	IP PoE 20xZ 1080p with EXE JB