EX292W HD IP

Complete fixed camera station

Overview

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

Features

- HD resolution
- DNV type approval
- EX certified for Zone 1 (gas group IIC) and Zone 21 (dust)
- Digital WDR (wide dynamic range)
- Automatic day/night function
- IR sensitive
- Ex e junction box (optional)
- Flexible powering (PoE, 30 VAC, 24 VDC)

- Mounting bracket included
- Integrated wiper
- Washer pump & tank (optional)
- Sunshield included
- Auto focus with manual override
- Auto iris with manual override
- Multi-cable accommodated
- Built-in heating
- 20 x optical zoom
- Scratch proof, tempered glass

The EX292W 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 EX292W 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 EX292W HD IP carries global Ex and Marine certifications & approvals and when combined with it's 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 EX292W 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.

ATEX *IECEx* INMETRO EAC DNV

Powering Business Worldwide

Certifications

Camera

Ex certification	EX II 2 G Ex d IIC T6 Gb
ATEX	Presafe 15 ATEX 6337X
IECEx	IECEx PRE 15.0017X
INMETRO	INMETRO DNV 14.0080X
TR CU	TR CU C-NO.GB05.B00872
Type approval	DNV GL Certificate No: TAA00000C8

Exe junction box (for configuration with jb)

Ex certification	EX II 2 G Ex e IIC T6 Gb
ATEX	DNV 10 ATEX 72715
IECEx	IECEx DNV 10.0003
TR CU	TR CU C-NO.GB05.B00872
INMETRO	DNV 14.0079

Specifications

Physical dimensions camera

Weight	5.5 kg
Dimensions (W x H x D)	155 x 192 x 188.5 mm (camera pointed horizontally)
Mounting	Upright or hanging - bolts: M8 (not included)
Field cabling	Field cable installation through ATEX/IECEx approved compound gland Gland M20X1.5 for 8.5-21.0mm cables (included)
Recommended HERNIS™ cable	P/N 025223 from camera to jb/central rack
Material & finish	Stainless steel AISI 316L, electro polished

EX e junction box (for configuration with jb)

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

Operating conditions camera

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

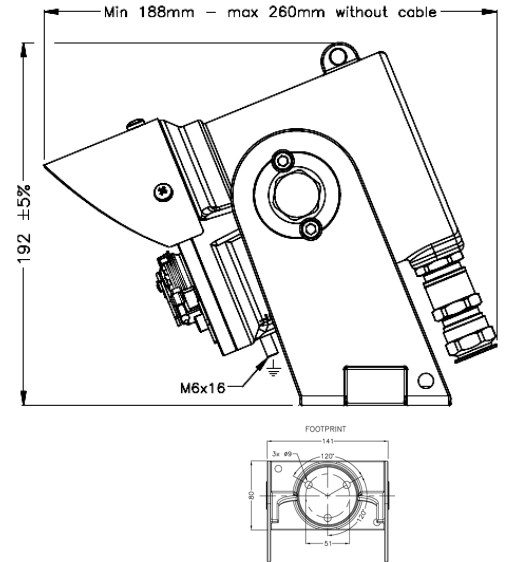### For configuration with junction box

Operating temperature range	-50° C to +55° C

For configurations with PoE IEEE802.3at

Operating temperature	-20° C to +55° C

Camera

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

Lens

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

General arrangement drawing (all dimensions in mm)

Specifications

Specifications IP

Protocol	IPv4/IPv6, TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, IPv6 (SIP, SRTP optional)
Compression	Main stream: H.264 Sub stream: H.264, MJPEG
H.264 compression profile	Main profile, high profile
Dual-streaming	Supported
Video bit rate	256 Kbps - 13 Mbps
Ethernet port	1 RJ45 10M/100M ethernet interface
Electrical data	CAT6 cable, AWG23

Attributes

Power supply	30 VAC (+10% -30%, 50/60Hz) / 24VDC (+/-10%) / PoE (IEEE802.3at)
Power consumption	30 VAC: 7 W min. (26 W max. heater on) (22 W max. wipe on) (47 W max. wash pump on) 24 VDC: 7 W min. (31 W max. heater on) (22 W max. wipe on) (47 W max. wash pump on) PoE at: 7 W min. (20 W max. heater on) (22 W max. wipe on) (25.5 W max. wash pump on)
Heat dissipation	30 VAC: 7 W min. (26 W max. heater on) 24 VDC: 7 W min. (31 W max. heater on) PoE: 7 W min. (20 W max. heater on)
Manual adjustment	Pan / tilt: 0 - 360° / 65° down from horizontal view and 90° up (opposite for inverse mounting of base)

Accessories

Optional	Tank & Pump 5.0L (EX Approved), 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.

HERNIS™ part no:	097160-11**x**/466**y** **y** = JB (junction box) **y** = FL (2.5 m flying lead)
111/466	IP 30VAC 20xZ 1080p
115/466	IP 24VDC 20xZ 1080p
116/466	IP PoE 20xZ 1080p
111/466FL	IP 30VAC 20xZ 1080p with Flying lead
115/466FL	IP 24VDC 20xZ 1080p with Flying lead
116/466FL	IP PoE 20xZ 1080p with Flying lead
111/466JB	IP 30VAC 20xZ 1080p with EXE JB
115/466JB	IP 24VDC 20xZ 1080p with EXE JB
116/466JB	IP PoE 20xZ 1080p with EXE JB