EX286W HD IP

Complete PTZ camera station

Picture shows EX286W with wiper and 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 2 (dust)
- Digital WDR (wide dynamic range)
- IR sensitive
- Integrated Ex e junction box
- Flexible powering (30 VAC, 24 VDC)
- Automatic day/night function
- Integrated wiper

- Washer pump & tank (optional)
- Sunshield
- Auto focus with manual override
- Auto iris with manual override
- Built-in heating
- Thermoelectric heating
- Scratch proof, tempered glass
- 20 x zoom
- Designed to accept future software upgrades remotely

The EX286W HD IP series, highly advanced process and surveillance camera stations, holds DNV type approval and is certified for use in hazardous areas. Pan/tilt, camera and junction box combined in one compact design makes it an extremely versatile camera station choice.

Designed specifically for operation in the most demanding conditions, the EX286W HD IP is built from high quality electro polished 316L stainless steel and has scratch resistant tempered window glass and a built-in heater as standard.

This camera station will quickly focus on a predefined object or area by utilizing the preset position feature. 100 positions are at your fingertips and will allow the operator to alternate between areas, processes or objects rapidly.

Additionally the EX286W HD IP carries global Ex and Marine certifications & approvals and when combined with its IP66 ingress protection it makes it exceptionally resilient to extreme environmental conditions where vibration, humidity, extreme temperature variations and corrosion are a normal occurrence. Low power consumption combined with a reflective surface has resulted in the lowest surface temperature classification possible, i.e. T6.

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).

The EX286W 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.

⟨Ex⟩ **ATEX** *IECEx* INMETRO EAC DNV

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Certifications

Camera

Ex code	EX II2 GD - Ex de IIC T6 Gb (Gas) & Ex tb IIIC T85°C Db (Dust)
ATEX	Presafe 15 ATEX 7413
IECEx	IECEx PRE 15.0069
TR CU	TR CU C-NO.GB05.B00872
INMETRO	DNV 13.0001
Type approval	DNV GL Certificate No: TAA00000C8

Specifications

Physical dimensions camera

Weight	19.5kg
Dimensions (W x H x D)	325 x 295 x 203 mm
Mounting	Upright or hanging - bolts: M12, 4 pcs. (not included) ATEX and IECEx approved gland for Exe mounting, M20
Material & finish	Stainless steel AISI 316L, electro polished

Operating conditions

IP protection rate	IP66 (NEMA 4x)
Humidity	Up to 100%
Operating temperature range	-20° C to +60° C (heating element inside housing)
Vibration	3 - 100 Hz (1 mm or 0.7 gr)
Enclosure	Salt mist tested
EMC	All locations including open deck

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

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	Spring terminal, 10M/100M ethernet interface
Electrical data	CAT6 cable, AWG23

Attributes

Power supply for config. 121/466	30 VAC (+10% -30%, 50/60 Hz)
Power supply for config. 125/466	24 VDC (±10%))
Power consumption/heat dissipation	30VAC: 15W (normal) 23W (heating on) 40W max (washer pump EXMD110 running) 24VDC: 15W (normal) 20W (heating on) 26W max (washer pump EXMD110 running)
Rotating angle/variable speed	Pan: 0-360° / speed 1.5°/sec. - 45° / sec Tilt: ±90° / speed 1.5° / sec. - 26° / sec
Preset/home positions	100 preset + 4 home positions, accuracy ≤ 0.2°

Accessories

Included	Sunshield
Optional	Tropical sunshield, tank & pump, safety wire, wall or weld bracket

General arrangement drawing (all dimensions in mm)

Ordering requirements

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

HERNIS™ part no:	097181-12**x**/466
12**1**/466	30VAC 20xZ 1080p
12**5**/466	24VDC 20xZ 1080p