

XD70 HD IP EoC

Explosion proof PTZ dome camera station



Overview

Eaton's XD70 series are highly advanced process and surveillance camera stations that are certified to meet worldwide specifications for use in hazardous areas and harsh environmental conditions. The customized dome is hard-coated for Electro-Magnetic Compatibility (EMC).

Ethernet over Coax (EoC), uses IP transmission over coax.

Features

- ESD coated
- EX certified for zone 1 (gas group IIB+H2)
- Full HD 1080p resolution
- H264 video compression
- Flexible powering(30VAC, 24VDC or PoE)
- Endless panoramic rotation
- Video motion detection
- IK10 impact resistant dome
- Automatic image flip
- Tempered glass
- Auto focus with manual override on motorised zoom lenses
- Auto iris with manual override on motorised zoom lenses
- Built-in heating
- Designed to accept future software upgrades remotely



Certifications

ATEX	PRESAFE 18 ATEX 12335X
IECEX	IECEX PRE 18.6627X
Ex Certification Code	Ex II 2 G, Ex d IIB+H2 T5 Gb

Specifications

Physical dimensions

Weight	13.1kg
Dimensions (H x Ø)	262 x 260mm (400mm including junction box)
Mounting	Ceiling (bolts:M10, not included)
Material & finish	Stainless steel AISI 316L, electro polished Polycarbonate dome cupola, electro-static dissipative coating

Operating conditions

IP protection rate	IP66
Humidity	Up to 100%
Vibration	3 - 100Hz (1mm or 0.7gr)
Enclosure	Salt mist tested

Operating temperature range

Configuration	137/466JB	-20°C to +60°C (heating element inside housing)
	117/466 & 117/466FL	-20°C to +70°C (heating element inside housing)

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: 0.05Lux @ (F1.6, AGC ON) B/W: 0.01Lux @ (F1.6, AGC ON)
S/N ratio	> 50 dB / WDR
Lens	
Focal length	4.7 - 94 mm, 20x optical
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. 2.7s (optical, wide - tele)
Day & night	IR cut filter auto switch

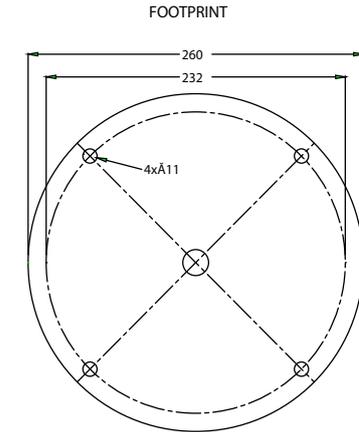
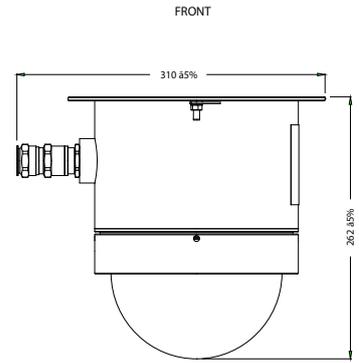
Specifications IP

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	18 Mbps
Ethernet port	Ethernet over Coax (EoC), 10M/100M Ethernet over coax interface
Electrical data	Coax 75Ω
Cable length on 100Mbit/s setting	Max: 3 main streams @ 4Mbit/s, 3 sub streams @ 1Mbit/s Max. 270 meters on HERNIS Multi cable (025098, 025044, 025045, 025106, 025108, 025118, 025119, 025122)
Cable length on 10Mbit/s setting	Max: 1 main stream @ 4Mbit/s, 1 sub stream @ 1Mbit/s Max. 500 meters on HERNIS Multi cable (025098, 025044, 025045, 025106, 025108, 025118, 025119, 025122)
Possible restrictions on coaxial cables	Maximum transmission distance depends on the quality of the cable. Low quality terminations, repairs or other modifications to the cable might impact the performance For upgrades Eaton recommends that a site survey is conducted to verify cable quality and maximum transmission distance

Attributes

Power supply	30VAC (+10% -30%, 50/60Hz) or 24VDC (+/-10%) Camera station works on 30VAC or 24VDC without any adjustments or settings
Power consumption/heat dissipation	12W (20W max. when heater is on)
Rotating angle/variable speed	Pan: Continuous 360°/Speed 1.8°/sec. - 110°/sec Tilt: 180°/ Speed 1.8°/sec. - 110°/sec
Preset/home positions	100 preset + 1 home positions, accuracy ≤ 0.1°
Accessories	
Required	EoC equipment in receiving end
Optional	Wall or weld bracket, safety kit with 2 meter wire

General arrangement drawing (all dimensions in mm)



Ordering requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box

XD70													
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Housing type
Visual camera housing
Code
V

Wiper options
No wiper
Code
N

Video type
HD IP system
Code
I

Day/night module
20x zoom 1080p network camera
Code
H

Thermal core module
No thermal core
Code
N

Thermal core lens
No thermal imaging lens
Code
N

Video system
IP
Code
I

Supply voltage
24 VAC/DC
Code
1

Camera rotation
Continuous rotation
Code
1

Protocol requirements
Pelco D protocol, baud rate 2400bps
Code
D

Certification
ATEX/IECEX combined
Code
Q

Temperature type
T5, -20°C to +70°C
Code
2

Transmission type
Electrical IP over Coax No cable Tail
Electrical IP over Coax 24VAC/DC 3M cable Tail
Code
5
6