# XD70 HD IP series

## 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).

## Features

- Scratch resistant coating (EMC)
- 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

- Automatic image flip
- Scratch proof, 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

**ATEX IECEx**

**EAT•N**
*Powering Business Worldwide*

## Certifications

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

FRONT



## Specifications

| | |
|---|---|
| Weight | 13.1kg |
| Dimensions | 262 x 260mmØ (400mm including junction box) |
| Mounting | Ceiling (bolts:M10, not included) |
| Material & finish | Stainless steel AISI 316L, electro polished<br>EX coated polycarbonate dome cupola |
| **Operating conditions camera** | |
| IP protection rate | IP66 |
| Operating temperature range | -20°C to +45°C (heating element inside housing) |
| Humidity | Up to 100% |
| Vibration | 3 - 100Hz (1mm or 0.7gr) |
| Enclosure | Salt mist tested |
| EMI/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)<br>60 Hz: 30 fps (1920 × 1080), 30 fps (1280 × 720) |
| Min. illumination | Color: 0.05Lux @(F1.6, AGC ON)<br>B/W: 0.01Lux @(F1.6, AGC ON) |
| S/N ratio / WDR | >50 dB / WDR |
| **Lens** | |
| Focal length | 4.7-94mm, 20 x optical |
| Aperture range | F1.6-F3.5 |
| Angle of view | 61.4-2.9° (wide - tele) |
| Min. working distance | 10mm-1500mm (wide - tele) |
| Zoom speed | Approx. 2.7s (optical, wide - tele) |
| Day & night | IR cut filter auto switch |
| **Attributes** | |
| Power supply | 30VAC (+10% -30%, 50/60Hz) / 24VDC (+/-10%) / PoE (IEEE802.3at)<br>Dome can be powered with 30VAC or 24VDC<br>For PoE operation a different DIP switch setting is necessary<br>The power setting of each XD70 is configured according to the project requirements |
| Power consumption / heat dissipation | 12W  (20W max. when heater is on) |
| Rotating angle / variable speed | Pan: continuous 360°/speed 1.8°/sec. - 110°/sec<br>Tilt: 180°/ speed 1.8°/sec. - 110°/sec |
| Preset / home position | 100 preset + 1 home positions, accuracy ≤ 0.1° |
| **Specifications** | |
| 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<br>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 |

FOOTPRINT
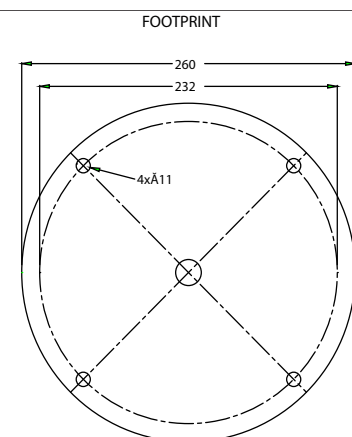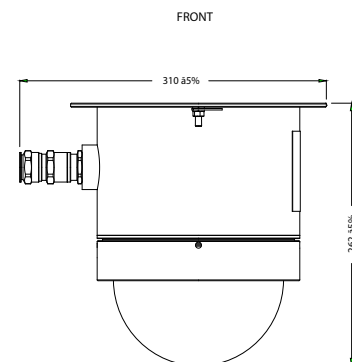
# Ordering requirements

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 | | | | | | | | | | | | | |

| Housing type | Code |
|---|---|
| Visual camera housing | V |

| Wiper options | Code |
|---|---|
| No wiper | N |

| Video type | Code |
|---|---|
| HD IP system | I |

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

| Thermal core module | Code |
|---|---|
| No thermal core | N |

| Thermal core lens | Code |
|---|---|
| No thermal imaging lens | N |

| Video system | Code |
|---|---|
| IP | I |

| Supply voltage | Code |
|---|---|
| 24 VAC/DC | 1 |
| POE | 2 |

| Camera rotation | Code |
|---|---|
| Continuous rotation | 1 |

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

| Certification | Code |
|---|---|
| ATEX/IECEx combined | Q |

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

| Transmission type | Code |
|---|---|
| Standard elecrtical IP no cable tail | 0 |
| Standard electrical IP POE 10M cable Tail | 7 |
| Standard electrical IP 24VAC/DC 3M cable Tail | 8 |