# XT40 HD IP series

## Explosion proof, PTZ with illuminator camera station

## Overview

The Oxalis XT40 is an explosion protected PTZ camera station with integral illumination, designed for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera stations are designed for longevity in harsh environments with minimal maintenance.

The illuminator has an integrated light sensor for automatic operation and utilises high efficiency IR LEDs for up to 175m range.

## Features

- ATEX and IECEx certified
- Electro-polished 316L stainless steel on all welded assemblies
- Camera station window in toughened glass
- Wall mounting options (see separate datasheets)

- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- Operating temperature from -60°C to +70°C*
- IP66/67

*Model dependent

ATEX  *IECEx*  INMETRO

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## Certifications

| | | | |
|---|---|---|---|
| **ATEX** | II 2 G Ex db (op pr) IIC T4 Gb -60°C to +70°C<br>II 2 D Ex tb (op pr) IIIC T140°C Db IP6x<br>On request: T135 -60°C to +65°C<br>Certificate: ITS16ATEX101021X | **CCOE** | Ex db (op pr) IIC T4 Gb -60°C to +70°C<br>Ex tb (op pr) IIIC T140°C Db IP6x<br>On request: T135 -60°C to +65°C<br>Certificate: P529141 |
| **IECEx** | Ex db (op pr) IIC T4 Gb -60°C to +70°C<br>Ex tb (op pr) IIIC T140°C Db IP6x<br>On request: T135 -60°C to +65°C<br>Certificate: IECEx ITS 15.0068X | **INMETRO** | Ex db (op pr) IIC T4 Gb -60°C to +70°C<br>Ex tb (op pr) IIIC T140°C Db IP6x<br>On request: T135 -60°C to +65°C<br>Certificate: UL-BR 17.0063X |

## General arrangement drawing (all dimensions in mm)
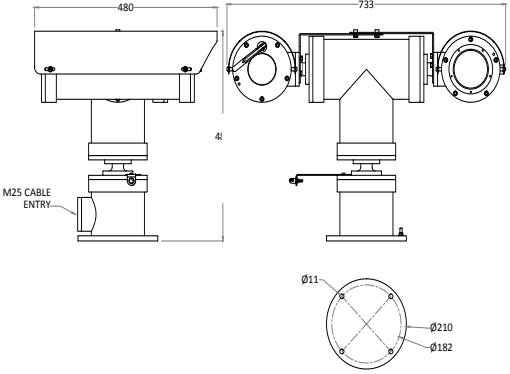


## Specifications

| Features | | Electrical | |
|---|---|---|---|
| **Sun shield** | Standard stainless steel 316L mirror finish | **Supply voltage options** | 24 VAC, 110 or 230 VAC, 50/60Hz |
| **Integral wiper** | Optional (Silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) | **Power consumption** | 100W maximum (158W with low temperature operation) |
| **Integral demister** | Standard | **Electrical connections** | Terminal block for power and data specific to camera configuration |
| **Washer systems** | Compatible with Oxalis XWP washer tanks  (see separate datasheets) | **Cable entry** | Single M25 entry located in base |
| **Pan speed (maximum)** | 45° per second | **Mechanical** | |
| **Tilt speed (maximum)** | 24° per second | **Body material** | Electro-polished 316L stainless steel on all welded assemblies |
| **Pre-set positional accuracy** | 64 presets: positional accuracy±0.1° | **Fixings material** | A4 stainless steel |
| **Telemetry receiver** | Integral - Pelco D | **Camera station window** | Toughened glass |
| **Rotation** | Continuous pan or 350° rotation (+/- 175° from straight ahead) | **Mounting options** | Pole or wall (see separate datasheets) |
| **Integral illumination** | IR nano-stack LED technology, internally powered from camera station, range up to 175m (depending on camera), 12° angle, 850nm wavelength. Auto switching from ambient light sensor or auxiliary command | **Operating temperature** | From -60°C to +70°C (model dependent) |
| | | **Weight (Kg)** | Up to 62 Kg depending on configuration |
| | | **Ingress protection rating** | IP66/67 |
| **IP direct fibre out** | Optional media converter, simplex singlemode 9/125μm or multimode 50/125μm, 10/100Mb ethernet, IEEE 802.3, | **Type approval** | DNV 2.4 2006 ABCD (copper transmission only) |
| **IP over coax** | Optional integrated IP ethernet-over-coax converter (must be used with compatible Rx equipment) | | |

### Camera options

| 32x XNZ-6320 HP IP camera | | 22x zoom 3MP HD IP camera | |
|---|---|---|---|
| **Image sensor** | Progressive scan CMOS 1/2.8" | **Image sensor** | Progressive scan CMOS 1/2.8" |
| **Resolution** | Resolution: 1920x1080 @60fps to 320x240 | **Resolution** | 2304 x 1296 @ 30fps |
| **Lens** | 32x optical 32x digital zoom 4.44-142.6 mm F1.6 to F4.4, horizontal angle of view 61.8° - 2.19° | **Lens** | 22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96° |
| **Min. illumination** | Colour : 0.05Lux (1/30sec, F1.6, 50IRE), B/W : 0.005Lux (1/30sec, F1.6, 50IRE) | **Min. illumination** | Colour : 0.002Lux (F1.5, AGC ON),  B/W 0.001Lux (F1.5, AGC ON) |
| **Streaming** | H.264, H.265 MJPEG dual codec, multiple streaming, VBR/CBR | **Streaming** | Triple streams in H.264, H.265 |
| **Features** | Intelligent video analytics, motion detection, day & night (ICR), WDR (150dB), auto focus, auto Iris, AGC, SSDR, ATW, SSNRIII, BLC, DIS, Defog | **Features** | AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch) |
| **Standards protocols** | ONVIF Profile S, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour | **Standards protocols** | L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. |

| 33x zoom 3MP HD IP camera | | 22x zoom 5MP HD IP camera | |
|---|---|---|---|
| **Image Sensor** | Progressive scan CMOS 1/2.8" | **Image Sensor** | Progressive scan CMOS 1/2.7" |
| **Resolution** | 2304 x 1296 @ 60fps | **Resolution** | 2880 x 1620 @ 30fps |
| **Lens** | 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° | **Lens** | 22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46° - 3.09° |
| **Min. Illumination** | Colour : 0.001Lux (F1.5, AGC ON),  B/W 0.0005Lux (F1.5, AGC ON) | **Min. Illumination** | Colour : 0.003Lux (F1.5, AGC ON),  B/W 0.001Lux (F1.5, AGC ON) |
| **Streaming** | Five streams in H.264, H.265 | **Streaming** | Triple streams in H.264, H.265 |
| **Features** | AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch) | **Features** | AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch) |
| **Standards Protocols** | L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. | **Standards Protocols** | L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. |

# 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

**XT40** ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

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

| Wiper options | Code |
|---|---|
| Integral wiper with switched 24VAC for external washer pump | E |
| No wiper | N |

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

| Day/night module | Code |
|---|---|
| 32x zoom 2MP HD IP camera | P |
| 22x zoom 3MP HD IP camera | U |
| 33x zoom 3MP HD IP camera | V |
| 22x zoom 5MP HD IP camera | W |

| 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 ±10% 50/60 Hz | 1 |
| 110 VAC ±10% 50/60 Hz | 2 |
| 230 VAC ±10% 50/60 Hz | 3 |
| Special - price on application | S |

| Camera rotation | Code |
|---|---|
| Continuous rotation | 1 |
| Pan rotation restricted to +/- 175° | 2 |

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

| Certification | Code |
|---|---|
| ATEX | A |
| IECEx | I |
| INMETRO | M |
| CCOE | D |

| Temperature type | Code |
|---|---|
| T4, -20°C to +70°C* | A |
| T4, -40°C to +70°C* | B |
| T4, -20°C to +60°C | 1 |
| T4, -40°C to +60°C | 2 |
| T4, -60°C to +40°C | 3 |

\* Subject to configuration restrictions

| Transmission type | Code |
|---|---|
| Standard electrical | 0 |
| Simplex singlemode 9/125µm ethernet | 3 |
| Simplex multimode 50/125µm ethernet | 4 |
| IP over coax | 5 |
| Customer specific transmission device | C |