XT40 HD IP series - UL range

PTZ with illuminator camera station, hazardous location

Overview

The Oxalis XT40 is an explosion protected twin PTZ camera station with the addition of a high efficiency automated integral LED illuminator for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed specifically for the Americas markets or where UL standards on Class and Division have been specified.

The base unit carries dual NPT cable entries with easy access for cable termination during installation as standard, maximising compatibility and ease of use with existing fixed conduit installations.

Our camera stations are designed and manufactured for longevity in harsh environments, require minimal maintenance and are fully certified to UL standards as required by OSHA in both safe and hazardous areas.

See separate datasheet for ATEX/IECEx & other zone certification ranges
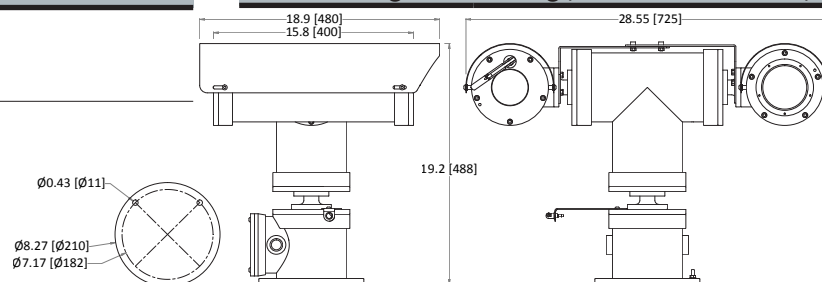
Features

• Class 1 Division 1 and Zone 1 certified

• Electro-polished 316L stainless steel on all welded assemblies

• Camera station window in toughened glass

• Pole or wall mounting options (see separate datasheets)

• NPT entries as standard

• Various camera module options

• Options also available for IP, analogue, hybrid, IP over Coax and direct fibre out* - see specific datasheet

• Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)

• Certified temperature -58˚F to +158˚F*

• IP66/67

*Model dependent

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Certifications

UL C1/D1	Class I, Division 1, Groups B, C, D, T4+ -50°C to +70°C (-58°F to +158°F) Class II, Division 1, Groups E, F, G IP67. Class 1 Zone 1 A Ex d IIB + Hydrogen T4 UL Listing: E477542

General arrangement drawing (dimensions in inches and mm)

18.9 [480]
15.8 [400]
28.55 [725]
19.2 [488]
Ø0.43 [Ø11]
Ø8.27 [Ø210]
Ø7.17 [Ø182]

Specifications

Certification part number	P&T OXALIS-UL2420-01, illuminator housing OXALIS-UL2410-04-IR, camera housing options OXALIS-UL1410-25, 1410-10		
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	2 x ¾"NPT 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 standard protocol (others to specification)	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 109 yards (depending on camera), 12° angle, 850nm wavelength. Auto switching from ambient light sensor or aux-iliary command	Operating temperature	From -58°F to +158°F (model dependent)
		Weight (lb)	Up to 137lb depending on configuration
		Type approval	DNVGL-CG-0339, 2016 (copper transmission only)
IP direct fibre out	Optional integrated media converter, simplex/duplex singlemode 9/125μm or multimode 50/125μm, 10/100Mb ethernet, IEEE 802.3,	Ingress protection rating	IP66/67
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
HERNIS™ protocol	H
Special - price on application	S

Certification	Code
UL Class I Div I	L

Temperature type	Code
T4A -4°F to +158°F	E
T4A -58°F to +158°F	F

*Subject to restrictions

Transmission type	Code
Standard electrical	0
Simplex singlemode 9/125µm ethernet	3
Simplex multimode 50/125µm ethernet	4
IP over coax	5
Duplex singlemode 9/125µm	6
Duplex Multimode 50/125µm	7
Customer specific fibre transmission device	C