

XP40 dual imager IP series

Explosion proof, PTZ
camera station



Overview

The Oxalis XP40 platform is an explosion protected PTZ camera station 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.

This datasheet cover the dual imaging configuration for continued vision in ultra-low light or harsh environmental conditions such as fog or smoke.

Features

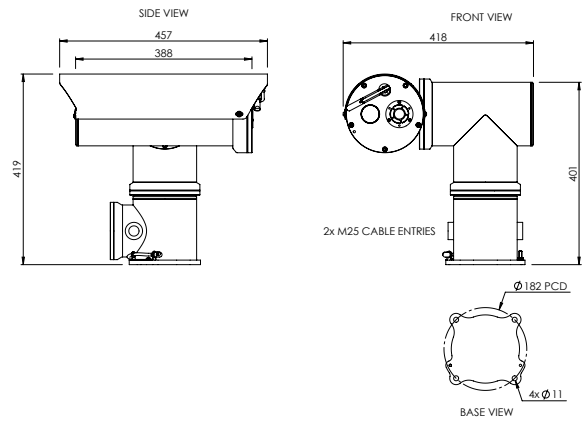
- ATEX and IECEx certified
 - Compatible with Oxalis XWP or XWP washer tanks (see separate datasheets)
 - Electro-polished 316L stainless steel on all welded assemblies
 - Pole or wall mounting options (see separate datasheets)
 - Supply voltage options (24, 110, 230 VAC (50/60Hz) or 24 VDC)
 - Operating temperature -60°C to +70°C
 - IP66/67
- *Model dependent



Certifications

ATEX	II 2 G Ex db (op pr) IICT4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X
IECEX	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: IECEX ITS 15.0068X
INMETRO	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ULBR 170063X

General arrangement drawing (all dimensions in mm)



Specifications

Features		Electrical	
Sun shield	Standard stainless steel 316L mirror finish	Supply voltage options	24, 110, 230 VAC (50/60Hz) or 24 VDC
Integral wiper dual windows	Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold)	Power consumption	85W maximum (143W with low temperature operation)
Integral demister	Standard	Electrical connections	Terminal block for power, data and video specific to camera configuration
Integral washer pump	Optional	Cable entry	2 x M25 entries located in the base (1 plugged)
Washer systems	Compatible with Oxalis XW or XWP washer tanks (see separate datasheets)	Mechanical	
Pan speed (maximum)	45° per second	Body material	Electro-polished 316L stainless steel on all welded assemblies
Tilt speed (maximum)	24° per second	Fixings material	A4 stainless steel
Pre-set positional accuracy	64 presets: positional accuracy ±0.1°	Camera station window	Toughened glass / Internal AR and external carbon coated germanium with protective grill
Telemetry receiver	Integral - Pelco D	Mounting options	Pole or wall (see separate datasheets)
Rotation	Continuous pan or 350° rotation (+/- 175° from straight ahead)	Operating temperature	From -60°C to +70°C (model dependent)
IP direct fibre out options	Optional media converter duplex/simplex singlemode 9/125um or multi-mode 50/125um, 10/100Mb Ethernet, IEEE 802.3	Weight (Kg)	Up to 33 Kg depending on configuration
IP over Coax	Optional intergrated IP ethernet over coax converter (must be used with compatible Rx equipment)	Ingress protection rating	IP66/67

Camera options

33x zoom 3MP HD IP camera

Image sensor	Progressive scan CMOS 1/2.8"
Resolution	2304 x 1296 @ 60fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°
Min. illumination	Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)
Streaming	Five 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)
Standards protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP

Thermal camera options

Image sensor	Option A Uncooled Micro bolometer effective pixels 400(H)x300(V), pizel size:17 um, Spectral range: 8-14 um. Colour palletes 18 Option B Uncooled Micro bolometer effective pixels 640(H)x512(V), pizel size:17 um, Spectral range: 7-14 um. Colour palletes 14
Lens - option A sensor	13mm Lens, Angle of View H:30.2°, V:22.6°. Effective Detection Distance, Man (1.8m x 0.5m):382m. Vehicle (4m x 1.4m):850m 25mm Lens, Angle of View H:15.5°, V:11.6°. Effective Detection Distance, Man (1.8m x 0.5m):735m. Vehicle (4m x 1.4m):1634m 35mm Lens, Angle of View H:11.1°, V:8.3°. Effective Detection Distance, Man (1.8m x 0.5m):1030m. Vehicle (4m x 1.4m):2288m
Lens - option B sensor	19mm Lens, Angle of View H:31.6°, V:25.6°. Effective Detection Distance, Man (1.8m x 0.5m):640m. Vehicle (2.3m x 2.3m):2000m. 25mm Lens, Angle of View H:24.65°, V:19.8°. Effective Detection Distance, Man (1.8m x 0.5m):1000m. Vehicle (2.3m x 2.3m):3000m. 35mm Lens, Angle of View H:17.2°, V:13.8°. Effective Detection Distance, Man (1.8m x 0.5m):1300m. Vehicle (2.3 x 2.3m):4000m
Streaming	H.264/MJPEG. Main framerate Option A sensor 1280 x 1024/720P/400x300 @25/30fps. Option 4 sensor 1280 x 1024/720P @1~25/30fps. Bit Rate control CBR/VBR. Motion detection OFF/ON (4 zone, rectangle). Region of interest Off/On (4 Zone). Privacy masking
Features	Brightness/Sharpness/ROI/AGC/FFC/3D DNR, Motion detection, Colour palletes 14/18, Tripwire, Intrusion, Object abandon/missing, Fire detection & alarm
Standard protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x. ONVIF Profile S & G, PSIA, CGI

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

XP40

Housing type	Code
Visual camera housing	BV

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

Video type	Code
IP	I

Day/night module	Code
33x zoom 3MP HD IP camera	V

Thermal core module	Code
400 x 300 uncooled Vox	A
640 x 512 uncooled Vox	B

Thermal core lens	Code
13mm lens core A	7
25mm lens core A	2
35mm lens core A	3
19mm lens core B	A
25mm lens core B	B
35mm lens core B	D

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
24 VDC ±10%	4
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
Special - price on application	S

Cable Tail Length	Code
No cable tail	00
3 metre	03
5 metre	05
7 metre	07
10 metre	10
15 metre	15
Specify length	*S

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 Singlemode 50/125µm	7
Customer Specific transmission device	C

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

Certification	Code
ATEX	A
IECEX	I
INMETRO	M