

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.

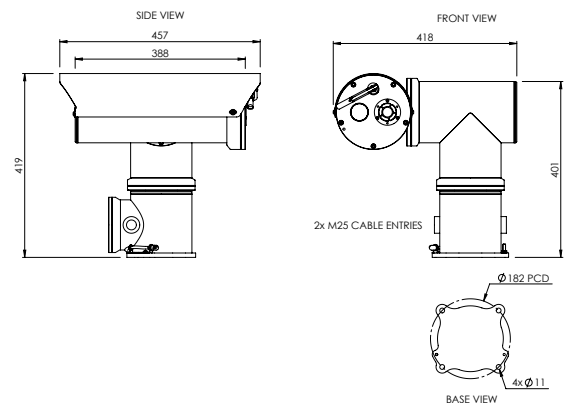
Features

- ATEX and IECEx certified
 - Compatible with Oxalis XW or XWP washer tanks (see separate datasheets)
 - Electro-polished 316L stainless steel on all welded assemblies
 - 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) IIC T4 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 17.0063X
CCOE	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: P529141

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 Mlcro bolometer effective pixels 400(H)x300(V), pizel size:17 um, Spectral range: 8-14 um. Colour palletes 18 Option B Uncooled Mlcro 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	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 palettes 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														
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Housing type
Visual camera housing

Code
BD

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

Code
E
N

Video type
IP

Code
I

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

Code
V

Thermal core module
400 x 300 uncooled Vox
640 x 512 uncooled Vox

Code
A
B

Thermal core lens
13mm lens core A
25mm lens core A
35mm lens core A
25mm lens core B
35mm lens core B

Code
7
2
3
B
D

Video system
IP

Code
I

Supply voltage
24 VAC ±10% 50/60 Hz
110 VAC ±10% 50/60 Hz
230 VAC ±10% 50/60 Hz
24 VDC ±10%
Special - price on application

Code
1
2
3
4
S

Camera rotation
Continuous rotation
Pan rotation restricted to +/- 175°

Code
1
2

Protocol requirements
Pelco D protocol, baud rate 2400bps
Special - price on application

Code
D
S

Cable Tail Length
No cable tail
3 metre
5 metre
7 metre
10 metre
15 metre
Specify length

Code
00
03
05
07
10
15
*S

Transmission type
Standard electrical
Simplex Singlmode 9/125µm ethernet
Simplex Multimode 50/125µm ethernet
IP over Coax
Duplex Singlmode 9/125µm
Duplex Singlmode 50/125µm
Customer Specific transmission device

Code
0
3
4
5
6
7
C

Temperature type
T4, -20°C to +70°C
T4, -40°C to +70°C
T4, -60°C to +40°C

Code
A
B
3

Certification
ATEX
IECEX
INMETRO
CCOE

Code
A
I
M
D