XP60 dual imager IP hybrid series

Explosion proof, PTZ camera station



Overview

The Oxalis XP60 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 covers the dual imaging configuration for continued vision in ultra-low light or harsh environmental conditions such as fog or smoke.

The large format housing allows the installation of custom specified transmission equipment subject to conformity to certification, physical fit and acceptance.

Features

- · ATEX, IECEx, Class 1 Division 1 and Zone 1 certified
- Electro-polished 316L stainless steel on all welded assemblies
- · Pole or wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- Operating temperature from -60°C to
- IP66/67
 - *Model dependent





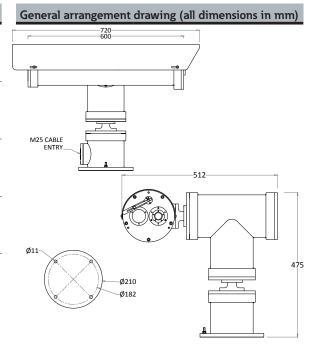








Certifications				
ATEX	II 2 G Ex db (op pr) IIC T4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X	cLC CSA	Ex d IICT4 (T5 On Request) LC1311396 -60°C ≤Ta ≤ +60°C. CAN CSA-C22.2 No.60079-0:2011 & 60079-1-2012 Certificate: 11396-1S-CSA	
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	TR CU, EAC	1 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: TCRUCGB.TE04.B00587	
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: P400546/1	
LCus C1/Z1	Class 1 Zone 1 A Ex d IIC T4 (T5 On Request) LC13A11396 Gb -60°C ≤Ta ≤ +60°C. UL 60079-0:2009 & 60079-1:2010 Certificate: 11396-1S-UL	CNEX	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: 17.1235X	
cLCus C1/D1	Class I, Division 1, Groups B, C, D, -60°C≤Ta≤60°C T4 Class II, Division 1, Groups E, F, G IP67. CSA-C22.2 No:30-M1986 No:25-1966(R2009) CSA- C22.2 No:60065-03(R2012) & UL1203,UL60065(ED.7) Certificate: 11671-15 (Gas) / 11677-15 (Dust)	CERTEX	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: S-XLP/170244X	



Specifications Certification part number	P&T 2420-01, Housing options 2410-DI-00, 2410-DI-01				
Features	F & 1 2420-01, Flousing options 2410-DI-00, 2410-DI-01	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	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	Single M25 entry located in base		
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 assemble		
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 +60°C (model dependent)		
Integral IP encoder	Includes integral video encoder, H.264 / M-JPEG/MPEG-4, low latency, triple streaming, D1, 2CIF, CIF and VGA Resolution, 25fps (30fps - NTSC) for use with analogue camera modules Optional nonstandard encoder, subject to acceptance, conformity to regulation and testing	Weight (Kg)	Up to 57 Kg depending on configuration		
IP direct fibre out	Optional media converter, simplex singlemode 9/125 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					
1/4" CCD 36x zoom camera					
lmage sensor	1/4" EXview HAD CCD (progressive scan)				
Resolution	High resolution mode on: 550 TV lines (default)				
Lens	36x zoom 3.4-122.4 mm F1.6 to F4.5, horizontal angle of view 57.8° -1.7°, 12X digital zoom, auto focus, auto iris				
Min. illumination	1/60 s, 1/50 s mode: 1.4 Lux, 1/4 s, 1/3 s mode: 0.1 Lux, 1/4 s, 1/3 s mode& ICR On: 0.01 Lux				
S/N Ratio	>50dB				
Features	ATW, day & night auto/colour / BW (IR-cut filter removable)	, camera title ON/OFF			
Thermal core module optic	ons				
T336 7.5-8.3Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement				
T640 7.5-8.3Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement				
T336 25-30Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing				
T640 25-30Hz	Uncooled VOx microbolometer thermal imaging camera, in 640 x 512 resolution (PAL), 17 μ pixel size, 30Hz NTSC/25H: licensing				
Thermal core lens options					
19mm lens	FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection	ction of object 4m x 1.5m:	Typical 1550m		
	FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m				
25mm lens	101 10 X 10 (000 X 200), 1 01 20 X 20 (010 X 012) Dotes	<u> </u>			
25mm lens 35mm lens	FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Dete	ection of object 4m x 1.5m:	: Typical 3000m		

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

