

XP40 thermal image analogue series - UL range

PTZ camera station,
hazardous location



Overview

The Oxalis XP40 thermal imager is an explosion protected PTZ camera station for use in hazardous areas in onshore, offshore, marine and heavy industrial environments where thermal imaging is required for specific process or security applications.

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

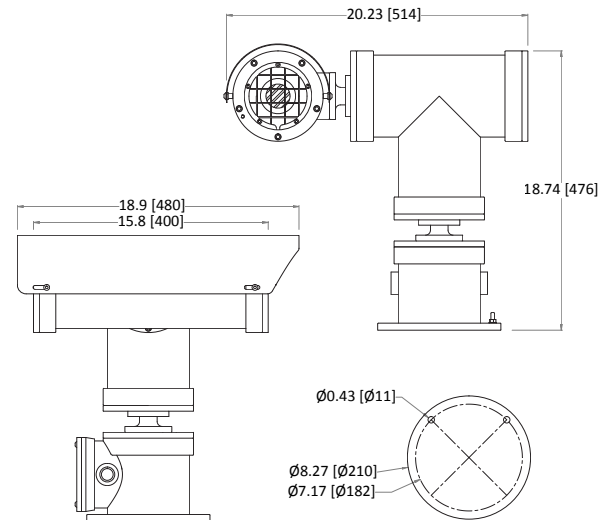
- Class 1 Division 1 and Zone 1 certified
- Electro-polished 316L stainless steel on all welded assemblies
- Camera station window in toughened glass
- Pole or wall mounting options (see separate datasheets)
- NPT entries as standard
- 5 different size lens options
- 4 resolution/frequency rating options
- Various camera module options
- Options also available for IP, analogue, hybrid, IP over Coax and direct fibre out* - see specific data sheet
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- Certified temperature from -58°F to +158°F* (ranging from T4 - T6)
- IP66/67

*Model dependent

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 (T5 On Request)
	On Request: T5 -50°C to +70°C (-58°F to +158°F), T6 -50°C to +50°C (-58°F to +122°F)
	UL Listing: E477542

General arrangement drawing (dimensions in inches and mm)



Specifications

Certification part number	P&T OXALIS-UL2420-01, Housing options OXALIS-UL1410-10-TI-50, 1410-10-TI		
Features		Electrical	
Sun shield	Standard stainless steel 316L mirror finish	Supply voltage options	24 VAC, 110 or 230 VAC, 50/60Hz
Integral demister	Standard	Power consumption	85W Maximum (143W with low temperature operation)
Pan speed (maximum)	45° per second	Electrical connections	Terminal block for power, data and video specific to camera configuration
Tilt speed (maximum)	24° per second	Cable entry	2 x 3/4" NPT located in base
Pre-set positional accuracy	64 presets: positional accuracy ±0.1°	Mechanical	
Telemetry receiver	Integral - Pelco D, P standard protocols (others to specification)	Body material	Electro-polished 316L stainless steel on all welded assemblies
Rotation	Continuous pan or 350° rotation (+/- 175° from straight ahead)	Fixings material	A4 stainless steel
Analogue direct fibre out	Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station	Camera station window	Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill
Ingress protection rating	IP66/67	Mounting options	Pole or wall (see separate datasheets)
Type approval	DNVGLCG-0339, 2016 (copper transmission only)	Operating temperature	From -58°F to +158°F (model dependent)
		Weight (lb)	Up to 117lb depending on configuration

Thermal core module options

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, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing

Thermal core lens options

19mm lens	FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m
25mm lens	FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m
35mm lens	FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m
50mm lens	FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m
100mm lens	FoV 3.3° x 2.5° (336 x 256) / FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø102 Germanium housings only

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

