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

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Certification part number | P&T OXALIS-UL2420-01, Housing options OXALIS-UL1410-10-TI-50, 1410-10-TI
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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 ¾"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 | DNVGL-CG-0339, 2016 (copper transmission only)
Operating temperature | From -58°F to +158°F (model dependent)
Weight (lb) | Up to 117 lb 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, 75Hz 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, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement, subject to export restrictions and licensing
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
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 1500m
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.

## Video System
- **PAL**: Code P
- **NTSC**: Code N

## Video Type
- **Analogue video**: Code A

## Day/Night Module
- **No D/N camera fitted**: Code N

## Thermal Core Module
- **T336 75-8.3Hz**: Code 8
- **T640 75-8.3Hz**: Code 2
- **T336 25-30Hz**: Code 9
- **T640 25-30Hz**: Code 4
- **Customer specific thermal camera**: Code C

## Thermal Core Lens
- **10mm lens**: Code 1
- **25mm lens**: Code 2
- **35mm lens**: Code 3
- **50mm lens**: Code 4
- **100mm lens**: Code 5
- **Customer specific thermal imaging lens**: Code C

## Housing Type
- **Thermal imaging housing with 50mm germanium window**: Code T
- **Thermal imaging housing with 102mm germanium window no camera**: Code H

## Transmission Type
- **Standard electrical**: Code 0
- **Simplex singlemode 9/125μm video/data**: Code 1
- **Simplex multimode 50/125μm video/data**: Code 2
- **Customer specific transmission device**: Code C

## Temperature Type
- **T4A -4°F to +158°F**: Code E
- **T4A -58°F to +158°F**: Code F
- **T6 -4°F to +122°F**: Code G
- **T6 -58°F to +122°F**: Code H

## Camera Rotation
- **Continuous rotation**: Code 1
- **Pan rotation restricted to +/- 175°**: Code 2

## Supply Voltage
- **24 VAC ±10% 50/60 Hz**: Code 1
- **110 VAC ±10% 50/60 Hz**: Code 2
- **230 VAC ±10% 50/80 Hz**: Code 3
- **Special - price on application**: Code S

## Wiper Options
- **No wiper**: Code N

## Protocol Requirements
- **Pelco D protocol, baud rate 2400bps**: Code D
- **Pelco P protocol, baud rate 4800bps**: Code P
- **Vicon protocol, baud rate 4800bps**: Code V
- **HERNIS™ protocol**: Code H
- **Coe protocol**: Code C
- **Special - price on application**: Code S
- **No control protocol**: Code N

## Certification
- **UL Class I Div I**: Code L

*Subject to restrictions.