Overview

The Oxalis XP40 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.

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 +60°C*
- IP66/67

*Model dependent

All specifications, dimensions, weights and tolerances are nominal (typical) and Eaton reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.
Specifications

Certification part number: P&T 2420-01, Housing options 1410-10-TI-50, 1410-10-TI

Features

- Sun shield: Standard stainless steel 316L mirror finish
- Integral demister
- Pan speed (maximum): 45° per second
- Tilt speed (maximum): 24° per second
- Pre-set positional accuracy: 64 presets: positional accuracy ±0.1°
- Telemetry receiver: Integral - Pelco D protocol (others to specification)
- Rotation: Continuous pan or 360° rotation (+/- 175° from straight ahead)
- 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)/25Hz PAL exportable frame rate, digital detail enhancement

Electrical

- Supply voltage options: 24 VAC, 110 or 230 VAC, 50/60Hz
- Power consumption: 85W Maximum (143W with low temperature operation)
- Electrical connections: Terminal block for power, data and video specific to camera configuration
- Cable entry: Single M25 entry located in base

Mechanical

- Body material: Electro-polished 316L stainless steel on all welded assemblies
- Fixing material: A4 stainless steel
- Camera station window: Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill
- Operating temperature: From -60°C to +60°C (Model dependent)
- Weight (Kg): Up to 53 Kg depending on configuration
- Ingress protection rating: IP66/67

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/58Hz 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/58Hz 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

- 1/9mm lens: Fov 13° x 13° (336 x 256) / Fov 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m
- 2/5mm lens: Fov 10° x 10° (336 x 256) / Fov 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m
- 3/5mm lens: Fov 7.5° x 7.1° (336 x 256) / Fov 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m
- 5/5mm 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
- 10/0mm 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.

#### Housing type

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

#### Wiper options

- **No wiper**
  - Code: N

#### Video type

- **Integral IP video encoder**
  - Code: H
- **Hybrid analogue IP system with nonstandard IP encoder**
  - Code: S

#### 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

- **19mm 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

#### Video system

- **PAL**
  - Code: P
- **NTSC**
  - Code: N

#### Supply voltage

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

#### Transmission type

- **Standard electrical**
  - Code: 0
- **Simplex singlemode**
  - Code: 3
- **9/125μm ethernet**
  - Code: 3
- **Simplex multimode**
  - Code: 4
- **50/125μm ethernet**
  - Code: 5
- **IP over coax**
  - Code: C
- **Customer specific transmission device**
  - Code: D

#### Temperature type

- **T4, -20°C to +60°C**
  - Code: 1
- **T4, -40°C to +60°C**
  - Code: 2
- **T4, -60°C to +40°C**
  - Code: 3
- **T5, -20°C to +60°C**
  - Code: 4
- **T5, -40°C to +60°C**
  - Code: 5
- **T5, -60°C to +40°C**
  - Code: 6
- **T6, -20°C to +40°C**
  - Code: 7
- **T6, -40°C to +40°C**
  - Code: 8
- **T6, -60°C to +40°C**
  - Code: 9

**Subject to configuration restrictions**

#### Protocol requirements

- **Pelco D protocol, baud rate 2400bps**
  - Code: D
- **Special - price on application**
  - Code: S

#### Camera rotation

- **Continuous rotation**
  - Code: 1
- **Pan rotation restricted to +/- 175°**
  - Code: 2
- **Special - price on application**
  - Code: S

#### Certification

- **ATEX**
  - Code: A
- **IECEX**
  - Code: I
- **INMETRO**
  - Code: M
- **LCus C1, Z1**
  - Code: U
- **cLCus C1, D1**
  - Code: Z
- **cLC CSA**
  - Code: C
- **TR CU, EAC**
  - Code: R
- **CCOE**
  - Code: D
- **CNEX**
  - Code: X
- **CERTEX**
  - Code: T

#### Camera rotation

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

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**Additional information:**

- **Temperature type**
  - Code: 1
- **Temperature type**
  - Code: 2
- **Temperature type**
  - Code: 3
- **Temperature type**
  - Code: 4
- **Temperature type**
  - Code: 5
- **Temperature type**
  - Code: 6
- **Temperature type**
  - Code: 7
- **Temperature type**
  - Code: 8
- **Temperature type**
  - Code: 9

**Subject to configuration restrictions**