Oxalis camera stations

XP60 dual imager analogue series - UL range

PTZ camera station, hazardous location

Overview

The Oxalis XP60 dual imager is an explosion protected PTZ camera station for use in hazardous areas in onshore, offshore, marine and heavy industrial environments. The dual imaging configuration of optical and thermal is used for continued vision in ultra-low light conditions, such as fog or smoke. The large format housing allows the installation of customised equipment (subject to conformity).

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
- 4 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
**Specifications**

<table>
<thead>
<tr>
<th>Features</th>
<th>Electrical</th>
<th>Mechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun shield</td>
<td>Standard stainless steel 316L mirror finish</td>
<td>Body material: Electro-polished 316L stainless steel on all welded assemblies</td>
</tr>
<tr>
<td>Integral wiper</td>
<td>Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat, or cold)</td>
<td>Fixings material: A4 stainless steel</td>
</tr>
<tr>
<td>Integral demister</td>
<td>Standard</td>
<td>Camera station window: Toughened glass / Internal AR and external carbon coated germanium with protective grill</td>
</tr>
<tr>
<td>Integral washer pump</td>
<td>Optional</td>
<td>Cable entry: 2 x ¾” NPT located in base</td>
</tr>
<tr>
<td>Washer systems</td>
<td>Compatible with Oxalis XW or XWP washer tanks (see separate datasheets)</td>
<td>Power consumption: 85W maximum (143W with low temperature operation)</td>
</tr>
<tr>
<td>Pan speed (maximum)</td>
<td>45° per second</td>
<td>Operating temperature: From -58°F to +158°F (model dependent)</td>
</tr>
<tr>
<td>Tilt speed (maximum)</td>
<td>24° per second</td>
<td>Weights (lbs): Up to 126lb depending on configuration</td>
</tr>
<tr>
<td>Pre-set positional accuracy</td>
<td>64 presets: positional accuracy ± 0.1°</td>
<td>Terminal block for power, data and video specific to camera configuration</td>
</tr>
<tr>
<td>Telemetry receiver</td>
<td>Integral - Pelco D standard protocol (others to specification)</td>
<td>Terminal block for power, data and video specific to camera configuration</td>
</tr>
<tr>
<td>Rotation</td>
<td>Continuous pan or 350° rotation (+/- 175° from straight ahead)</td>
<td>Mounting options: Pole or wall (see separate datasheets)</td>
</tr>
<tr>
<td>Analogue direct fibre out</td>
<td>Optional singlemode 9/125μm or multimode 50/125μm video and data fibre optic transmission, mounted inside the camera station</td>
<td>Power consumption: 85W maximum (143W with low temperature operation)</td>
</tr>
<tr>
<td>Ingress protection rating</td>
<td>IP66/67</td>
<td>Type approval: DNVGL-CG-0339, 2016 (copper transmission only)</td>
</tr>
</tbody>
</table>

**Camera options**

- 1/4” CCD 36x zoom camera
- Image 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: 336 x 256 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 autocollor / BW (IR-Cut filter removable), camera title ON/OFF

**Thermal core module options**

- T336 75-8.3Hz: 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/60Hz PAL exportable frame rate, digital detail enhancement
- T640 75-8.3Hz: 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/60Hz 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. 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: F0.9”x1.7” (336 x 256) / F0.9”x1.7” (640 x 512) Detection of object 4m x 1.5m: Typical 1550m
- 25mm lens: F0.9”x1.7” (336 x 256) / F0.9”x1.7” (640 x 512) Detection of object 4m x 1.5m: Typical 2200m
- 35mm lens: F0.9”x1.7” (336 x 256) / F0.9”x1.7” (640 x 512) Detection of object 4m x 1.5m: Typical 3000m
- 50mm lens: F0.9”x1.7” (336 x 256) / F0.9”x1.7” (640 x 512) Detection of object 4m x 1.5m: Typical 3900m
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.

- **XP60**
- **Supply voltage**
  - 24 VAC ±10% 50/60 Hz
  - 110 VAC ±10% 50/60 Hz
  - 230 VAC ±10% 50/60 Hz
- **Video type**
  - Analogue video
- **Day/night module**
  - 1/4”CCD 36x zoom camera
- **Thermal core module**
  - T336 75-8.3Hz
  - T840 75-8.3Hz
  - T336 25-30Hz
  - T840 25-30Hz
- **Thermal core lens**
  - 19mm lens
  - 25mm lens
  - 35mm lens
  - 50mm lens
- **Video system**
  - PAL
  - NTSC
- **Wiper options**
  - Integral wiper with switched 24VAC for external washer pump
  - Integral wiper
  - No wiper
- **Housing type**
  - Dual imaging housing
  - Dual imaging housing with integral washer pump
- **Transmission type**
  - Standard electrical
  - Simplex singlemode 9/125μm video/data
  - Simplex multimode 50/125μm video/data
  - Customer specific transmission device
- **Temperature type**
  - T4A -4˚F to +158˚F
  - T6 -4˚F to +122˚F
  - T6 -58˚F to +122˚F
- **Protocol requirements**
  - Pelco D protocol, baud rate 2400bps
  - Special - price on application
- **Certification**
  - UL Class I Div I
- **Camera rotation**
  - Continuous rotation
  - Pan rotation restricted to +/- 175˚
- **Special - price on application**

*Subject to restrictions