XP60 dual imager IP hybrid 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
### Certifications

UL Cl/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 - IP62  
Class I Zone 1 A Ex di IIB + Hydrogen T4 (TS 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)

![General arrangement drawing](https://example.com/drawing.png)

### Specifications

<table>
<thead>
<tr>
<th>Certification part number</th>
<th>P&amp;T OXALIS-UL2429-01, Housing options OXALIS-UL2410-DI-00, 2410-DI-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Features</td>
<td>Electrical</td>
</tr>
<tr>
<td>Sun shield</td>
<td>Standard stainless steel 316L mirror finish</td>
</tr>
<tr>
<td>Supply voltage options</td>
<td>24 VAC, 110 or 230 VAC, 50/60Hz</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>
</tr>
<tr>
<td>Power consumption</td>
<td>85W Maximum (143W with low temperature operation)</td>
</tr>
<tr>
<td>Integral demister</td>
<td>Standard</td>
</tr>
<tr>
<td>Electrical connections</td>
<td>Terminal block for power, data and video specific to camera configuration</td>
</tr>
<tr>
<td>Integral washer pump</td>
<td>Optional</td>
</tr>
<tr>
<td>Cable entry</td>
<td>2 x ¾&quot; NPT located in base</td>
</tr>
<tr>
<td>Washer systems</td>
<td>Compatible with Oxalis XW or XWP washers tanks (see separate datasheets)</td>
</tr>
<tr>
<td>Pan speed (maximum)</td>
<td>45° per second</td>
</tr>
<tr>
<td>Body material</td>
<td>Electro-polished 316L stainless steel on all welded assemblies</td>
</tr>
<tr>
<td>Tilt speed (maximum)</td>
<td>24° per second</td>
</tr>
<tr>
<td>Fixings material</td>
<td>A4 stainless steel</td>
</tr>
<tr>
<td>Pre-set positional accuracy</td>
<td>64 presets: positional accuracy±0.1°</td>
</tr>
<tr>
<td>Camera station window</td>
<td>Toughened glass / Internal AR and external carbon coated germanium with protective grill</td>
</tr>
<tr>
<td>Telemetry receiver</td>
<td>Integral - Pelco D standard protocol (others to specification)</td>
</tr>
<tr>
<td>Mounting options</td>
<td>Pole or wall (see separate datasheets)</td>
</tr>
<tr>
<td>Rotation</td>
<td>Continuous pan or 350° rotation (±) 175° from straight ahead</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>From -58°F to +158°F (model dependent)</td>
</tr>
<tr>
<td>Integral IP encoder</td>
<td>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</td>
</tr>
<tr>
<td>Weight (lb)</td>
<td>Up to 126lb depending on configuration</td>
</tr>
<tr>
<td>IP direct fibre out</td>
<td>Optional integrated media converter, simplex singlemode 9/125 or multimode 60/125μm, 10/100Mb ethernet, IEEE 802.3</td>
</tr>
<tr>
<td>Ingress protection rating</td>
<td>IP66/67</td>
</tr>
<tr>
<td>IP over coax</td>
<td>Optional integrated IP ethernet-over coax converter (must be used with compatible Rx equipment)</td>
</tr>
</tbody>
</table>

### Camera options

<table>
<thead>
<tr>
<th>¼&quot; CCD 36x zoom camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; EXview HAD CCD (progressive scan)</td>
</tr>
<tr>
<td>Resolution</td>
</tr>
<tr>
<td>Lens</td>
</tr>
<tr>
<td>Min. Illumination</td>
</tr>
<tr>
<td>S/N Ratio</td>
</tr>
<tr>
<td>Features</td>
</tr>
</tbody>
</table>

### 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/72Hz 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/72Hz 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/72Hz 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/72Hz 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 |
## 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.

### Components

- **Supply voltage**
  - 24 VAC ±10% 50/60 Hz
  - 110 VAC ±10% 50/60 Hz
  - 230 VAC ±10% 50/60 Hz
  - Code: 1, 2, 3

- **Video system**
  - PAL
  - NTSC
  - Code: P, N

- **Day/night module**
  - 1/4" CCD 36x zoom camera
  - Code: 4

- **Wiper options**
  - Integral wiper with switched 24VAC for external washer pump
  - Integral wiper
  - No wiper
  - Code: E, W, N

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

- **Housing type**
  - Dual imaging housing
  - Dual imaging housing with integral washer pump
  - Code: D, Q

- **Thermal core module**
  - T336 7.5-8.3Hz
  - T640 7.5-8.3Hz
  - T336 25-30Hz
  - T640 25-30Hz
  - Code: 8, 2, 9, 4

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

*Subject to restrictions

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

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

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

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

- **Thermal core lens**
  - 19mm lens
  - 25mm lens
  - 35mm lens
  - 50mm lens
  - Code: 1, 2, 3, 4

- **Ordering code**
  - XP60

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DSOU0011/D 10/17