# SP40 TI IP series

## PTZ camera station

## Overview

The Oxalis SP40 is a PTZ camera station, for use in designated safe areas in onshore, offshore, marine and heavy industrial environments.

The camera stations are designed for longevity in harsh environments with minimal maintenance. This datasheet covers the thermal imaging configurations.

## Features

- Electro-polished 316L stainless steel on all welded assemblies
- Temperature alarm option
- Washer systems compatible with Oxalis SW washer tanks (see separate datasheets)
- Pole or wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- Operating temperature -60˚C to +70˚C*
- IP66/67

*Model dependent

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Powering Business Worldwide

All specifications, dimensions, weights and tolerances are nominal (typical) and Eaton reserve the right to vary all data without prior notice.
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## Specification

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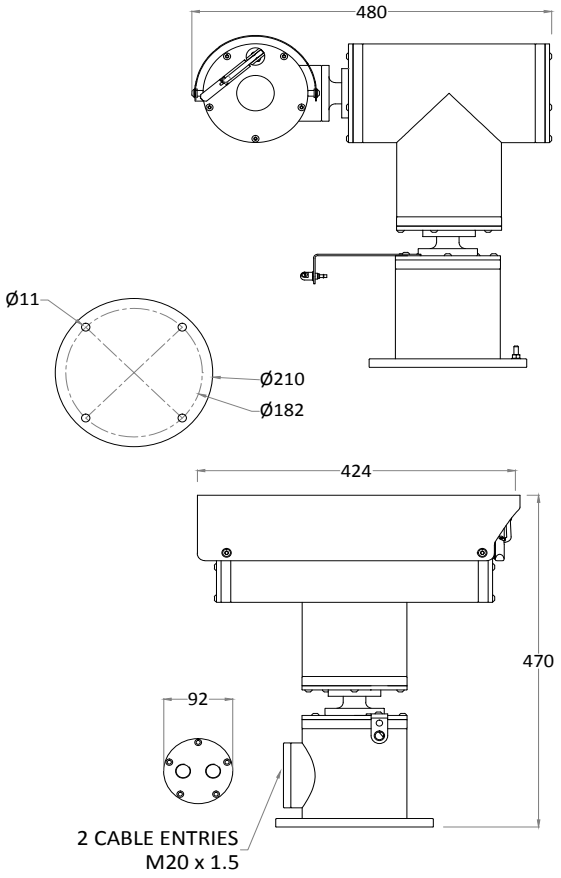
|---|---|
| **Features** | |
| **Sun shield** | Standard stainless steel 316L mirror finish |
| **Integral wiper** | Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) |
| **Integral demister** | Standard |
| **Washer systems** | Compatible with Oxalis SW Washer tanks (see separate datasheets) |
| **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 |
| **Rotation** | Continuous pan or 350° rotation (+/- 175° from straight ahead) |
| **IP direct fibre out** | Optional media converter, simplex singlemode 9/125µm or multimode 50/125µm ,10/100Mb ethernet, IEEE 802.3 |
| **IP over coax** | Optional integrated IP ethernet-over-coax converter (must be used with compatible Rx equipment) |
| **Ingress protection rating** | IP66/67 |
| **Type Approval** | DNVGL-CG-0339, 2016 (copper transmission only) |
| **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, RJ45 for network |
| **Cable entry** | Two M20 entries located in base |
| **Mechanical** | |
| **Body material** | Electro-polished 316L stainless steel on all welded assemblies |
| **Fixings material** | A4 stainless steel |
| **Camera station window** | Internal AR and external carbon coated germanium 50Ø |
| **Mounting options** | Pole or wall (see separate datasheets) |
| **Operating temperature** | From -60°C to +70°C (model dependent) |
| **Weight** | Up to 34Kg depending on configuration |
| **Thermal camera options** | |

## General arrangement drawing (all dimensions in mm)




| | |
|---|---|
| **Q1942-BARE 8.3fps** | |
| **Image sensor** | Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps |
| **Lens** | Athermalized, 19 mm, F1.23, Horizontal field of view: 32° |
| **Streaming** | H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264 |
| **Features** | Compression, mirroring of images, rotation, multiple palettes, brightness, sharpness, contrast, electronic image stabilization, automatic gain control, exposure zone, max gain, text and image overlay, privacy mask. Analytics - Video Motion Detection, Shock detection |
| **Standard protocols** | IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S |

| | |
|---|---|
| **Q1942-BARE-35 8.3fps** | |
| **Image sensor** | Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps |
| **Lens** | Athermalized, 35 mm, F1.2, Horizontal field of view: 17° |
| **Streaming** | H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264 |
| **Features** | Compression, mirroring of images, rotation, multiple palettes, brightness, sharpness, contrast, electronic image stabilization, automatic gain control, exposure zone, max gain, text and image overlay, privacy mask. Analytics - video motion detection, shock detection |
| **Standard protocols** | IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S |

| | |
|---|---|
| **Q2901-BARE 8.3fps** | |
| **Image sensor** | Uncooled Micro bolometer 336x256, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps |
| **Lens** | Athermalized, 19 mm, F1.23, Horizontal field of view: 17° |
| **Streaming** | H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264 |
| **Features** | Temperature Alarm and isothermal palettes, Spot temperature Sharpness, automatic gain control, exposure zones, max gain, rotation, palette, isothermal palette, compression, mirroring, text and image overlay, privacy masks Analytics - video motion detection, shock detection |
| **Standard protocols** | IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S |
| **Thermography** | Object temperature range -40 °C to 550 °C (-40 °F to 1022 °F) Temperature alarm zones triggering alarms based on deviation of the temperature |

# 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