SP26 thermal image analogue series

PTZ camera station

Overview

The Oxalis SP26 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
- 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 from -60˚C to +70˚C*
- IP66/67

*Model dependent
Specifications

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 - Pelco D, P standard protocols (others to specification)
- Rotation: Continuous Pan or 350° Rotation (+/- 175° from straight ahead)
- Analogue direct fibre out: Optional singlemode 9/125μm or multimode 50/125μm video and data fibre optic transmission, mounted inside the camera station
- 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, data and video specific to camera configuration
- 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 Ø50 mm
- Mounting options: Pole or wall (see separate datasheets)
- Operating temperature: From -60° C to +70° C (model dependent)
- Weight (Kg): Up to 32 Kg 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, 7.5Hz 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, 7.5Hz NTSC/8.3Hz 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
- 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
### 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.

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

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

**Protocol requirements**
- Code
  - Pelco D protocol, baud rate 2400bps: D
  - Pelco P protocol, baud rate 4800bps: P
  - Vicon protocol, baud rate 4800bps: V
  - HERNIS™ protocol: H
  - Coe protocol: C
  - Special - price on application: S

**Temperature type**
- Code
  - -20°C to +70°C*: A
  - -20°C to +60°C: 1
  - -40°C to +60°C: 2
  - -40°C to +70°C*: B
  - -60°C to +40°C: 3

*Subject to configuration restrictions

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

**Day/night module**
- Code
  - No D/N camera fitted: N

**Video type**
- Code
  - Analogue video: A

**Thermal core module**
- Code
  - T336 7.5-8.3Hz: 8
  - T336 25-30Hz: 9
  - T640 7.5-8.3Hz: 2
  - T640 25-30Hz: 4
  - Customer specific thermal camera: C

**Thermal core lens**
- Code
  - 19mm lens: 1
  - 25mm lens: 2
  - 35mm lens: 3
  - Customer specific thermal imaging lens: C

**Housing type**
- Code
  - Thermal imaging housing with 50mm germanium window: T

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

**Certification**
- Code
  - No Ex certification required: N

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