SF60 TI IP series

Fixed camera station

Overview

The Oxalis SF60 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

The large format housing allows the installation of custom specified camera, lens and transmission equipment subject to physical fit and acceptance.

This datasheet covers the thermal imaging configurations.

Features

- Electro-polished 316L stainless steel on all welded assemblies
- Temperature alarm option
- 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

Eaton
Unit B, Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
United Kingdom
NG17 5FB

T: +44 (0) 1623 444 400
www.crouse-hinds.com/hac
MEDCSales@Eaton.com

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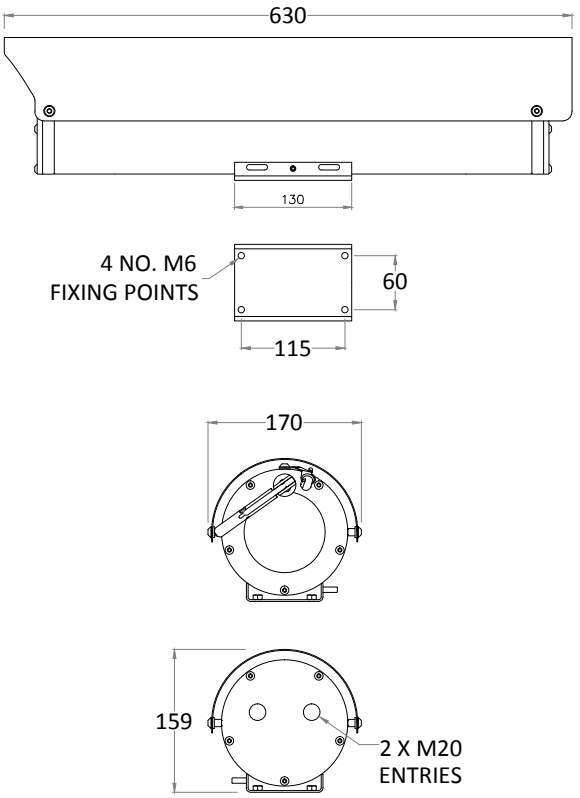
Specifications

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)
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	37W maximum (65W with low temperature operation)
Electrical connections	Terminal block for power, RJ45 for network
Cable entry	Two M20 entries located in housing rear flange
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 Ø50mm or Ø90mm
Mounting options	Pole or wall (see separate datasheets)
Operating temperature	From -60° C to +70° C (model dependent)
Weight (Kg)	Up to 13Kg depending on configuration
T320 7.5-8.3Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 324 x 256 resolution, 25µµpixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement

General arrangement drawing (all dimensions in mm)



Thermal camera options

Q1942-BARE 8.3fps		**Q1942-BARE-35 8.3fps**	
Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm upto 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°	**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	**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	**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	**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