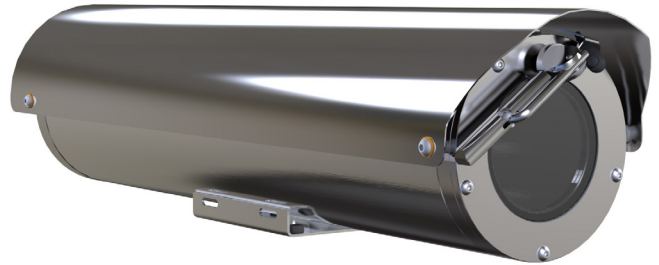# SF60 HD IP series - UL range

Fixed camera station, ordinary location

Overview

The Oxalis SF60 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments. 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 ordinary location standards have been specified and as a result they utilise NPT entries as standard to maximise compatibility with existing installations.

Our camera stations are designed and manufactured for longevity in harsh environments, require minimal maintenance and are fully certified to UL standards.

See separate datasheets for other global certification ranges.

Features

- 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
- Various camera module options
- Options also available for IP, analogue, hybrid, IP over Coax and direct fibre out* - see specific datasheet
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
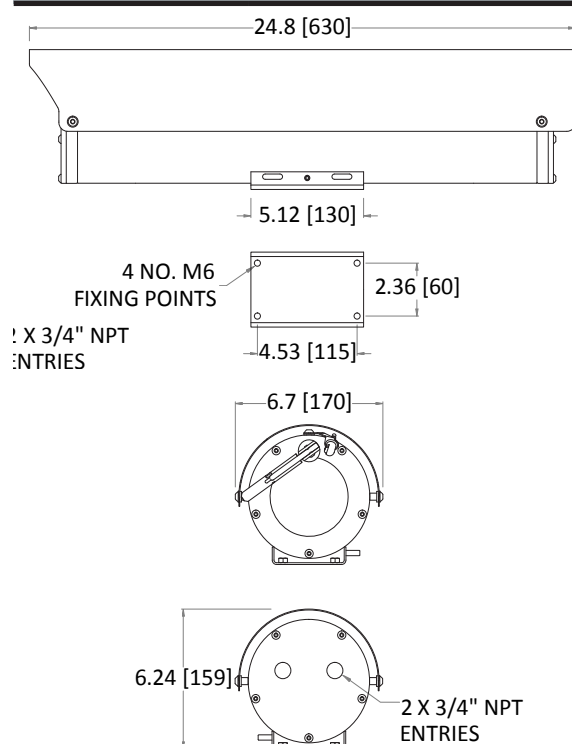- -58˚F to +158˚F* operating temperature
- IP66/67

  *Model dependent

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Specification

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 - Pelco D standard protocol (others to specification)
IP direct fibre out	Optional integrated 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)
Type approval	DNVGL-CG-0339, 2016 (copper transmission only)
Ingress protection rating	IP66/67

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, data and video specific to camera configuration
Cable entry	2 x ¾"NPT located in rear flange

Mechanical

Body material	Electro-polished 316L stainless steel on all welded assemblies
Fixings material	A4 stainless steel
Camera station window	Toughened glass
Mounting options	Pole or wall (see separate datasheets)
Operating temperature	From -58˚F to +158˚F (model dependent)
Weight (lb)	Up to 29lb depending on configuration

General arrangement drawing (dimensions in inches and mm)

24.8 [630]
5.12 [130]
4 NO. M6 FIXING POINTS
2.36 [60]
4.53 [115]
2 X 3/4" NPT ENTRIES
6.7 [170]
6.24 [159]
2 X 3/4" NPT ENTRIES

30x zoom HD IP camera

Image sensor	1/2.8″ Exmor CMOS
Resolution	1920x1080 @60fps to 352x240
Lens	30x zoom 4.3-129 mm F1.6 to F4.7, horizontal angle of view 67.7° - 2.3°, 12X digital zoom, auto focus, auto iris
Min. illumination	Colour ICR-Off: 0.35 Lux (1/30 Sec, 50IRE) 0.05 Lux (1/4 sec, 1/3 sec, 50IRE) B/W ICR-On: 0.013 lx (1/30 sec, 50IRE) 0.002 lx (1/4 sec, 1/3 sec, 30IRE)
Streaming	Primary: H.264, secondary x3: H.264/MJPEG, VBR/CBR
Features	AGC, AE, AWB, TDN, DNR, BLC, ACCE, DSS, WDR, EIS, defog, OSD
Standards protocols	ONVIF Profile S, PSIA - IPv4/6, TCP, UDP, HTTP, HTTPS, IGMP(Multicast), DHCP, FTP, RTP RTSP, SNMP, SMTP, UPnP, DDNS, WS-Discovery, zero configuration

20x zoom HD IP camera

Image sensor	Progressive scan CMOS 1/2.8″
Resolution	1920x1080 30fps
Lens	20x zoom 4.7-94mm F1.6 to F3.5, angle of view 61.4° - 2.9°, 10X digital zoom, auto focus, auto Iris
Min. illumination	Color: 0.05Lux @ (F1.6, AGC ON) B/W: 0.01Lux @ (F1.6, AGC ON)
Streaming	Dual streams in H.264 and motion JPEG, VBR/CBR
Features	BLC, AGC, AWB, WDR, DNR, OSD, day & night auto/colour / BW (IR-Cut filter removable)
Standards protocols	ONVIF Profile S, PSIA, CGI - TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, IPv6

18x zoom HD IP camera

Image sensor	Progressive scan RGB CMOS 1/2.9″
Resolution	1920x1080 (HDTV 1080p) to 320x180
Lens	18x zoom 4.7-84.6 mm F1.6 to F2.8, angle of view 59° - 4°, 12X digital zoom, auto focus, auto iris
Min. illumination	Color: 0.5 lux at 30 IRE F1.6, B/W: 0.04 lux at 30 IRE F1.6
Streaming	Multiple, individually configurable streams in H.264 and motion JPEG, VBR/CBR
Features	BLC, AGC, AWB, WDR, OSD, day & night auto/colour / BW (IR-Cut filter removable)
Standards protocols	ONVIF Profile S, IPv4/v6, HTTP, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS

32x zoom HD IP camera

Image sensor	Progressive scan CMOS 1/2.8"
Resolution	Resolution: 1920x1080 @60fps to 320x180
Lens	32x optical 16x digital zoom 4.44-142.6 mm F1.6 to F4.4, horizontal angle of view 62.8° - 2.23°
Min. illumination	Colour : 0.3Lux (1/30sec, F1.6, 50IRE), B/W : 0.03Lux (1/30sec, F1.6, 50IRE)
Streaming	H.264, MJPEG dual codec, multiple streaming, VBR/CBR
Features	Intelligent video analytics, motion detection, day & night (ICR), WDR (120dB), auto focus, auto Iris, AGC, SSDR, ATW, SSNRIII, BLC, DIS, Defog
Standards protocols	ONVIF Profile S, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour

30x zoom 2.1MP network camera

Image Sensor	Progressive scan CMOS 1/2.8″
Resolution	1920x1080 30fps
Lens	30x zoom 4.3-129mm F1.6 to F5.05, Angle of View 65.1° - 2.34°, 10X digital zoom, Auto Focus, Auto Iris
Min. Illumination	Color: 0.05Lux @ (F1.6, AGC ON) B/W: 0.01Lux @ (F1.6, AGC ON)
Streaming	Dual streams in H.264 and Motion JPEG, VBR/CBR
Features	BLC, AGC, AWB, WDR, DNR, OSD, Day & Night Auto/Colour / BW (IR-Cut Filter Removable)
Standards Protocols	ONVIF, PSIA, CGI - TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, IPv6

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

SF60 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Housing type	Code
Visual camera housing	V

Wiper options	Code
Integral wiper with switched 24VAC for external washer pump	E
No wiper	N

Video type	Code
HD IP system	I

Day/night module	Code
30x zoom HD IP camera	9
18x zoom HD IP camera	B
20x zoom HD IP camera	H
32x zoom HD IP camera	D
30x zoom 2.1MP network camera	M
Customer specific camera	C

Thermal core module	Code
No thermal core	N

Thermal core lens	Code
No thermal imaging lens	N

Video system	Code
IP	I

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

Camera rotation	Code
Not applicable	N

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

Certification	Code
UL listed	P

Temperature type	Code
-4˚F to +158˚F	E
-58˚F to +158˚F	F
-4˚F to +122˚F	G
-58˚F to +122˚F	H

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