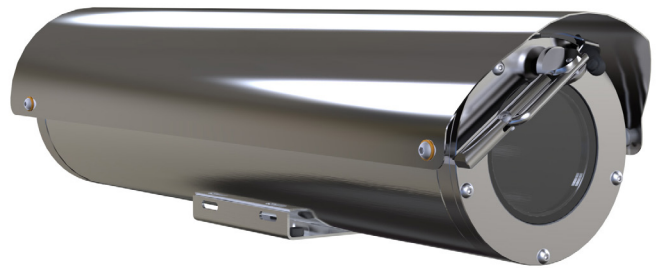


SF60 HD IP series - UL range

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
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- -76°F to +158°F* operating temperature
- IP66/67

*Model dependent

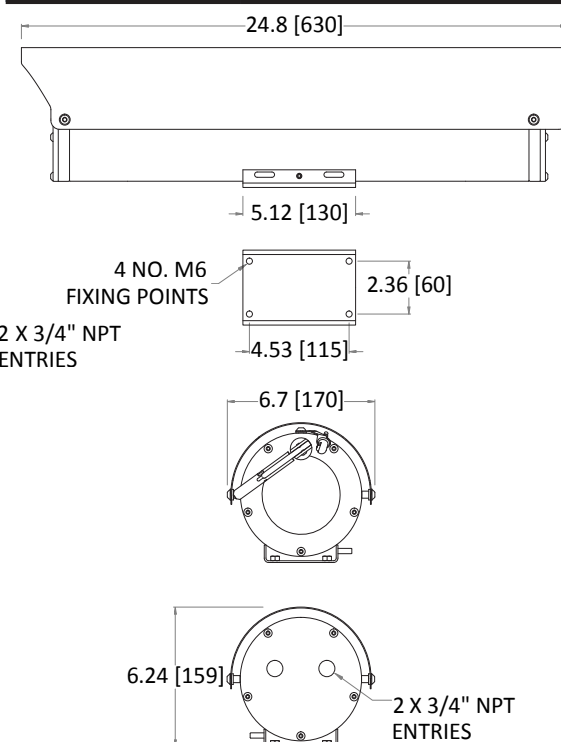
Specification

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/duplex 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	DNVGLCG-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 -76°F to +158°F (model dependent)
Weight (lb)	Up to 29lb depending on configuration

Camera options

32x XNZ-L6320A HP IP camera		22x zoom 3MP HD IP camera	
Image sensor	Progressive scan CMOS 1/2.8"	Image sensor	Progressive scan CMOS 1/2.8"
Resolution	Resolution: 1920x1080 @60fps to 320x240	Resolution	2304 x 1296 @ 30fps
Lens	32x optical 32x digital zoom 4.44-142.6 mm F1.6 to F4.4, horizontal angle of view 61.8° - 2.19°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96°
Min. illumination	Colour : 0.05Lux (1/30sec, F1.6, 50IRE), B/W : 0.005Lux (1/30sec, F1.6, 50IRE)	Min. illumination	Colour : 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	H.264, H.265 MJPEG dual codec, multiple streaming, VBR/CBR	Streaming	Triple streams in H.264, H.265
Features	Intelligent video analytics, motion detection, day & night (ICR), WDR (150dB), auto focus, auto Iris, AGC, SDR, ATW, SSNR III, BLC, DIS, Defog	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
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	Standards protocols	ONVIF Profiles S&T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP
33x zoom 3MP HD IP camera		22x zoom 5MP HD IP camera	
Image Sensor	Progressive scan CMOS 1/2.8"	Image Sensor	Progressive scan CMOS 1/2.7"
Resolution	2304 x 1296 @ 60fps	Resolution	2880 x 1620 @ 30fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46° - 3.09°
Min. Illumination	Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)	Min. Illumination	Colour : 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Five streams in H.264, H.265	Streaming	Triple streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards Protocols	ONVIF Profiles S&T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP	Standards Protocols	ONVIF Profiles S&T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP

General arrangement drawing (dimensions in inches and mm)



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 Visual camera housing	Code V												
Wiper options Integral wiper with switched 24VAC for external washer pump No wiper	Code E N												
Video type HD IP system	Code I												
Day/night module 32x zoom 2MP HD IP camera 22x zoom 3MP HD IP camera 33x zoom 3MP HD IP camera 22x zoom 5MP HD IP camera	Code P U V W												
Thermal core module No thermal core	Code N												
Thermal core lens No thermal imaging lens	Code N												
Video system IP	Code I												
Supply voltage 24 VAC ±10% 50/60 Hz 110 VAC ±10% 50/60 Hz 230 VAC ±10% 50/60 Hz Special - price on application	Code 1 2 3 S												
Camera rotation Not applicable	Code N												
Protocol requirements Pelco D protocol, baud rate 2400bps HERNIS™ protocol Special - price on application	Code D H S												
Certification UL listed	Code P												
Temperature type -4°F to +158°F -58°F to +158°F -76°F to +104°F -4°F to +122°F -58°F to +122°F -76°F to +104°F	Code E F J G H K												
Transmission type Standard electrical Simplex singlemode 9/125µm ethernet Simplex multimode 50/125µm ethernet IP over coax Duplex singlemode 9/125µm Duplex Multimode 50/125µm Customer specific fibre transmission device	Code 0 3 4 5 6 7 C												