

XF60 HD IP series - UL range

Fixed camera station,
hazardous location



Overview

The Oxalis XF60 is an explosion protected fixed camera housing for use in hazardous areas inshore, 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 standards on Class and Division have been specified. The camera utilises NPTs entries as standard to maximise compatibility with existing fixed conduit installations.

Our camera stations are designed and manufactured for longevity in harsh environments, require minimal maintenance and are fully certified to UL standards as required by OSHA in both safe and hazardous areas.

See separate datasheet for ATEX/IECEX & other zone certification ranges.

Features

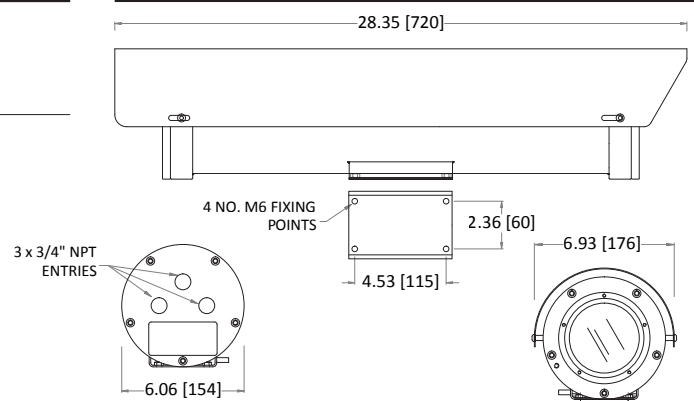
- Class 1 Division 1 and Zone 1 certified
- Electro-polished 316L stainless steel on all welded assemblies
- Camera station window in toughened glass
- Pole or wall mounting options (see separate datasheets)
- NPT entries as standard
- Various camera module options
- Options also available for IP, analogue, hybrid, IP over Coax and direct fibre out* - see specific data sheet
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- Certified temperature from -58°F to +158°F* (ranging from T4 - T6)
- IP66/67

*Model dependent

Certifications

UL CI/DI	Class I, Division 1, Groups B, C, D, T4+ -50°C to +70°C (-58°F to +158°F)
	Class II, Division 1, Groups E, F, G IP67
	Class 1 Zone 1 A Ex d IIB + Hydrogen T4 (T5 On Request)
	On Request: T5 -50°C to +70°C (-58°F to +158°F), T6 -50°C to +50°C (-58°F to +122°F)
UL Listing: E477542	

General arrangement drawing (dimensions in inches and mm)



Specifications

Certification part number	Housing options OXALIS-UL2410-00, 2410-01, 2410-02		
Features		Electrical	
Sun shield	Standard stainless steel 316L mirror finish	Supply voltage options	24 VAC, 110 or 230 VAC, 50/60Hz
Integral wiper	Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold)	Power consumption	37W maximum (65W with low temperature operation)
Integral demister	Standard	Electrical connections	Terminal block for power, data and video specific to camera configuration
Integral washer pump	Optional	Cable entry	3 x 3/4" NPT located in rear flange
Washer systems	Compatible with Oxalis XW or XWP washer tanks (see datasheets)	Mechanical	
Telemetry receiver	Integral - Pelco D standard protocol (others to specification)	Body material	Electro-polished 316L stainless steel on all welded assemblies
IP direct fibre out options	Optional integrated media converter, simplex/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEEE 802.3	Fixings material	A4 stainless steel
IP over coax	Optional integrated IP Ethernet-over-coax converter (must be used with compatible Rx equipment)	Camera station window	Toughened glass
Ingress Protection Rating	IP66/67, IP68 (1.5m for 24 hours)	Mounting options	Pole or wall (see separate datasheets)
Type approval	DNVGLCG-0339, 2016 (copper transmission only)	Operating temperature	From -58°F to +158°F (model dependent)
		Weight (lb)	Up to 46lb depending on configuration
Camera options			
32x XNZ-6320 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, SDDR, ATW, SSNRIII, 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	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	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP	Standards Protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP

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

XF60

Housing type	Code
Visual camera housing	V
Visual camera housing with integral washer pump	P

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

Video type	Code
IP	I

Day/night module	Code
32x zoom 2MP HD IP camera	P
22x zoom 3MP HD IP camera	U
33x zoom 3MP HD IP camera	V
22x zoom 5MP HD IP camera	W

Thermal core module	Code
No thermal core	N

Thermal core lens	Code
No thermal imaging lens	N

Video system	Code
IP	I

Camera rotation	Code
Not applicable	N

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

Transmission type	Code
Standard electrical	0
Simplex singlemode 9/125µm ethernet	3
Simplex multimode 50/125µm ethernet	4
IP over coax	5
Duplex singlemode 9/125µm	6
Duplex Multimode 50/125µm	7
Customer specific fibre transmission device	C

Temperature type	Code
T4A -4°F to +158°F	E
T4A -58°F to +158°F	F
T6 -4°F to +122°F*	G
T6 -58°F to +122°F*	H

*Subject to restrictions

Certification	Code
UL Class I Div I	L

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