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 inonshore, 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.
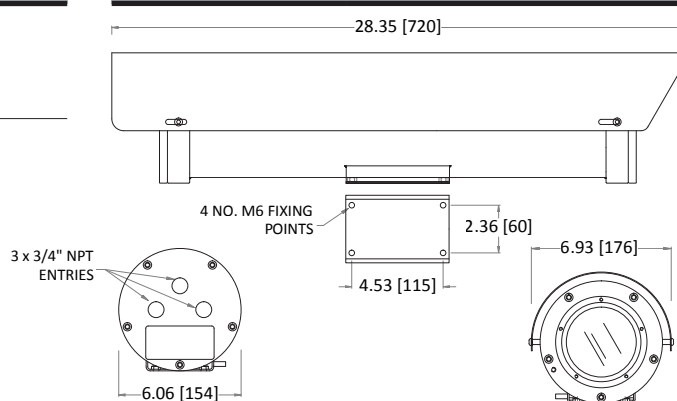
Features

- 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

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Certifications

UL C1/D1	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)

28.35 [720]

4 NO. M6 FIXING POINTS

2.36 [60]

6.93 [176]

3 x 3/4" NPT ENTRIES

4.53 [115]

6.06 [154]

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 ¾"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 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	DNVGL-CG-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

30x zoom HD IP camera		**20x zoom HD IP camera**	
Image sensor	1/2.8" Exmor CMOS	**Image sensor**	Progressive scan CMOS 1/2.8"
Resolution	1920x1080 @60fps to 352x240	**Resolution**	1920x1080 30fps
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	**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	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)	**Min. illumination**	Color: 0.05Lux @ (F1.6, AGC ON) B/W: 0.01Lux @ (F1.6, AGC ON)
Streaming	Primary: H.264, secondary x3: H.264/MJPEG, VBR/CBR	**Streaming**	Dual streams in H.264 and motion JPEG, VBR/CBR
Features	AGC, AE, AWB, TDN, DNR, BLC, ACCE, DSS, WDR, EIS, defog, OSD	**Features**	BLC, AGC, AWB, WDR, DNR, OSD, day & night auto/colour / BW (IR-Cut filter removable)
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	**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		**32x zoom HD IP camera**	
Image sensor	Progressive scan RGB CMOS 1/2.9"	**Image sensor**	Progressive scan CMOS 1/2.8"
Resolution	1920x1080 (HDTV 1080p) to 320x180	**Resolution**	Resolution: 1920x1080 @60fps 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	**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	Color: 0.5 lux at 30 IRE F1.6, B/W: 0.04 lux at 30 IRE F1.6	**Min. illumination**	Colour:0.3Lux(1/30sec,F1.6, 50IRE), B/W : 0.03Lux (1/30sec,F1.6, 50IRE)
Streaming	Multiple, individually configurable streams in H.264 and motion JPEG, VBR/CBR	**Streaming**	H.264, MJPEG dual codec, multiple streaming, VBR/CBR
Features	BLC, AGC, AWB, WDR, OSD, day & night auto/colour / BW (IR-Cut filter removable)	**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, 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	**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

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**
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 Class I Div I	L

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

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