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
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- Certified temperature from -76°F to +158°F* (ranging from T4A - T6)
- IP66/67
 - *Model dependent





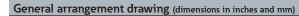
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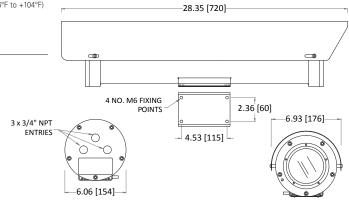
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Certifications

Class I, Division 1, Groups B, C, D, T4+ -50°C to +70°C (-58°F to +158°F) T4A/T6 -60° to +40°C (-76°F to +104°F) Class II, Division 1, Groups E, F, G IP67.
Class I 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 UL C1/D1



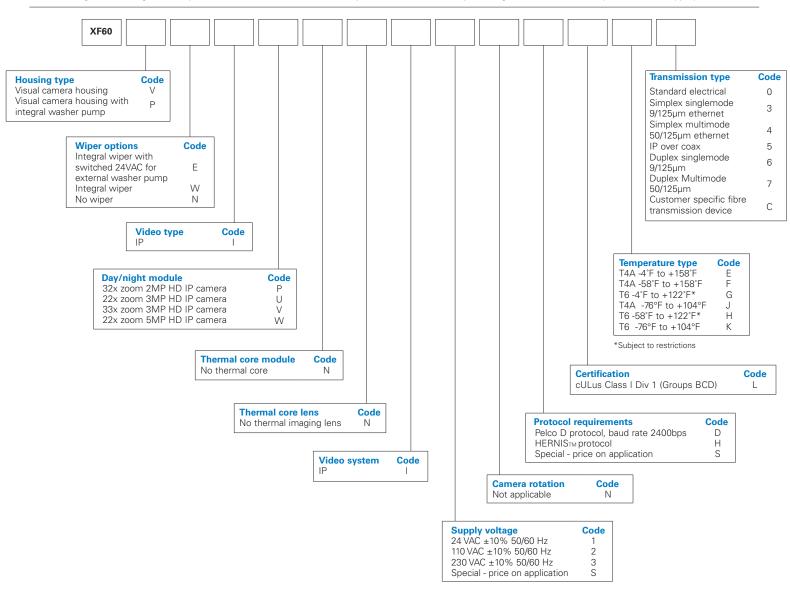


| Specifications | | | |
|-----------------------------|---|------------------------|---|
| Features | | Electrical | |
| Sun shield | Standard stainless steel 316L mirror finish | Supply voltage options | 24 VAC, 110 or 230 VAC, 50/60Hz |
| Integral wiper | Optional (silicone wiper blades that are resistant 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/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 | DNVGL-CG-0339, 2016 (copper transmission only) | Operating temperature | From -76°F to +158°F (model dependent) |
| | | Weight (lb) | Up to 46lb depending on configuration |

| 32x XNZ-L6320A HP IP camera | | 22x zoom 3MP HD IP camera | |
|--|---|---------------------------|---|
| Image sensor Progressive scan CMOS 1/2.8" Image sensor | | 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 53.7- - 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, SSDR, 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 | 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. |

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 thermal image analogue series - UL range

Fixed camera station, hazardous location



Overview

The Oxalis XF60 thermal imager is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments where thermal imaging is required for specific process or security applications. 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. As a result they utilise NPT 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
- 5 different size lens options
- 4 resolution/frequency rating options
- · 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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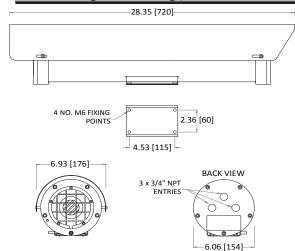
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Certifications

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 I 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 UL C1/D1

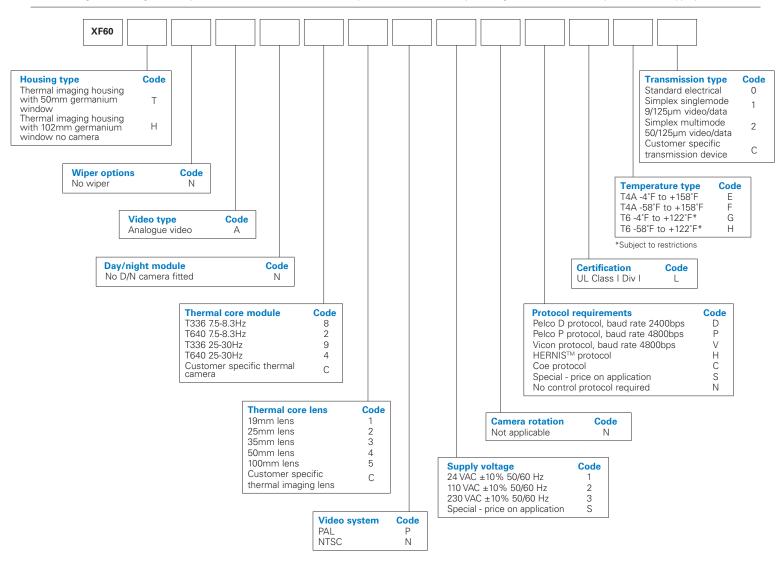
General arrangement drawing (dimensions in inches and mm)



| | └──6.06 [154]—-\ |
|---------------------------|---|
| Specifications | |
| Certification part number | Housing options OXALIS-UL2410-TI, 2410-TI-50 |
| Features | |
| Sun shield | Standard stainless steel 316L mirror finish |
| Integral demister | Standard |
| Telemetry receiver | Integral - Pelco D, P standard protocols (others to specification) |
| Analogue direct fibre out | Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station |
| 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 | 3 x ¾ "NPT located in rear flange |
| Type approval | DNVGL-CG-0339, 2016 (copper transmission only) |
| ngress protection rating | IP66/67, IP68 (1.5m for 24 hours) |
| Mechanical | |
| Body material | Electro-polished 316L stainless steel on all welded assemblies |
| ixings material | A4 stainless steel |
| Camera station window | Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill |
| Mounting options | Pole or wall (see separate datasheets) |
| Operating temperature | From -58°F to +158°F (model dependent) |
| Weight (lb) | Up to 40lb depending on configuration |
| Thermal core module optio | ns |
| T336 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement |
| T640 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement |
| T336 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing |
| T640 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing |
| Thermal core lens options | |
| 19mm lens | FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m |
| 25mm lens | FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m |
| 35mm lens | FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m |
| 50mm lens | FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m |
| 100mm lens | FoV 3.3° x 2.5° (336 x 256) / FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø102 Germanium housings only |
| TOOHIII IGIIS | 10V 0.0 A 2.0 (000 A 200) / 10V 0.2 A 3.0 (040 A 312) Detection of object 411 A 1.5111. Typical 0000111. 2 102 Germanium housings of my |

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 thermal imager IP hybrid series - UL range

Fixed camera station, hazardous location



Overview

The Oxalis XF60 thermal imager is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments where thermal imaging is required for specific process or security applications. 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. As a result they utilise NPT 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
- 5 different size lens options
- 4 resolution/frequency rating options
- · 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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United Kingdom
NG17 5FB

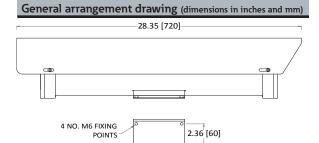
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Certifications

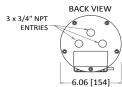
UL C1/D1

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 I 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



4.53 [115]

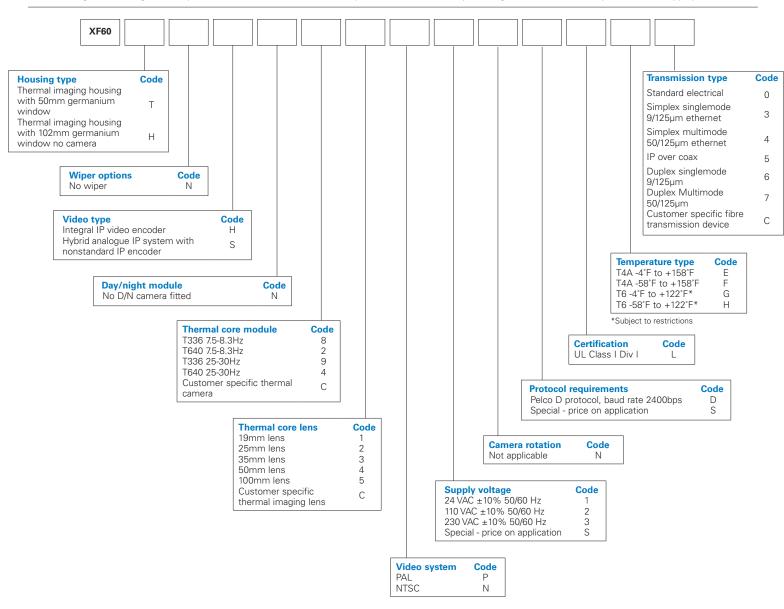




| Specifications | |
|----------------------------|---|
| Certification part number | Housing options OXALIS-UL2410-TI, 2410-TI-50 |
| Features | |
| Sun shield | Standard stainless steel 316L mirror finish |
| Integral demister | Standard |
| Telemetry receiver | Integral - Pelco D standard protocol (others to specification) |
| Rotation | Continuous pan or 350° rotation (+/- 175° from straight ahead) |
| Integral IP encoder | Includes integral video encoder, H.264 / M-JPEG/MPEG-4, low latency, triple streaming, D1, 2CIF, CIF and VGA resolution, 25fps (30fps - NTSC) for use with analogue camera modules Optional nonstandard encoder, subject to acceptance, conformity to regulation and testing |
| IP over coax | Optional integrated IP ethernet-over-coax converter (must be used with compatible Rx equipment) |
| Direct fibre out | Optional simplex/duplex singlemode 9/125μm or multimode 50/125μm, 10/100Mb ethernet, IEEE 802.3 |
| 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 | 3 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 | Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill |
| Mounting options | Pole or wall (see separate datasheets) |
| Operating temperature | From -58°F to +158°F (model dependent) |
| Weight (lb) | Up to 40lb depending on configuration |
| Ingress protection rating | IP66/67, IP68 (1.5m for 24 hours) |
| Thermal core module option | ons |
| T336 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement |
| T640 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement |
| T336 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing |
| T640 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing |
| Thermal core lens options | |
| 19mm lens | FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m |
| 25mm lens | FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m |
| 35mm lens | FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m |
| 50mm lens | FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m |
| 100mm lens | FoV 3.3° x 2.5° (336 x 256) / FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø102 Germanium housings only |
| | · · · · · · · · · · · · · · · · · · · |

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



XF40 day/night HD IP series - UL range

Fixed camera station, hazardous location



Overview

The Oxalis XF40 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed specifically for the Americas markets or where UL standards on Class and Division have been specified. As a result they utilise NPT 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
- Supply voltage options (24 VAC)
- Certified temperature from -76°F to +158°F* (ranging from T4A - T6)
- IP66/67
 - *Model dependent





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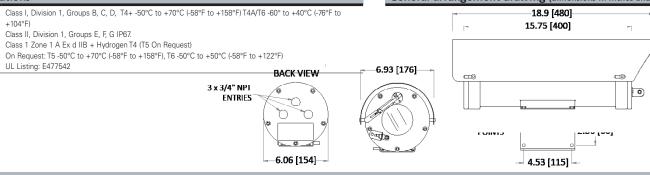
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Certifications

General arrangement drawing (dimensions in inches and mm)

UL C1/D1

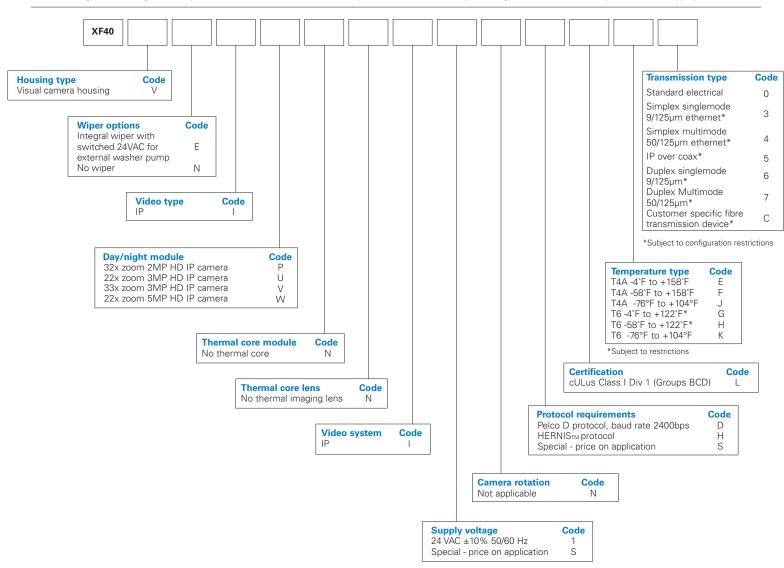


| Specifications | | | |
|-----------------------------|---|------------------------|---|
| Features | | Electrical | |
| Sun shield | Standard stainless steel 316L mirror finish | Supply voltage options | 24 VAC |
| Integral wiper | Optional (silicone wiper blades that are resistant and do not perish 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 |
| Washer systems | Compatible with Oxalis XW or XWP washer tanks (see datasheets) | Cable entry | 3 x ¾"NPT located in rear flange |
| Telemetry receiver | Integral - Pelco D standard protocol (others to specification) | Mechanical | |
| IP direct fibre out options | Optional integrated media converter, simplex/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEEE 802.3 | Body material | Electro-polished 316L stainless steel on all welded assemblies |
| IP over coax | Optional integrated IP Ethernet-over-coax converter (must be used with compatible Rx equipment) | Fixings material | A4 stainless steel |
| Type approval | DNVGL-CG-0339, 2016 (copper transmission only) | Camera station window | Toughened glass |
| Ingress protection rating | IP66/67, IP68 (1.5m for 24 hours) | Mounting options | Pole or wall (see separate datasheets) |
| | | Operating temperature | From -76°F to +158°F (model dependent) |
| | | Weight (lb) | Up to 33lb depending on configuration |

| 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, SSDR, 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 | 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. |

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



XF40 thermal image analogue series - UL range

Fixed camera station, hazardous location



Overview

The Oxalis XF40 thermal imager is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments where thermal imaging is required for specific process or security applications.

The camera housings are designed specifically for the Americas markets or where UL standards on Class and Division have been specified. The housings utilise NPT 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
- 5 different size lens options
- · 4 resolution/frequency rating options
- · 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)
- Certified temperature from -58°F to +158°F* (ranging from T4 - T6)
- IP66/67
 - *Model dependent





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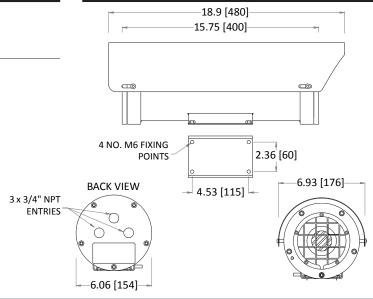
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Certifications

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 I 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

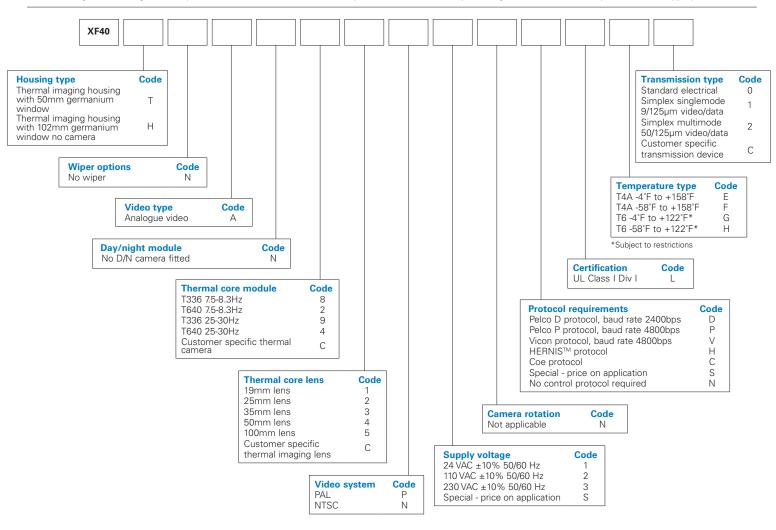
General arrangement drawing (dimensions in inches and mm)



| Specifications | |
|---------------------------|--|
| Certification part number | Housing options OXALIS-UL1410-TI, 1410-TI-50 |
| Features | |
| Sun shield | Standard stainless steel 316L mirror finish |
| Integral demister | Standard |
| Telemetry receiver | Integral - Pelco D, P standard protocols (others to specification) |
| Analogue direct fibre out | Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station |
| Ingress protection rating | IP66/67, IP68 (1.5m for 24 hours) |
| Type approval | DNVGL-CG-0339, 2016 (copper transmission only) |
| Electrical | |
| Supply voltage options | 24 VAC |
| Power consumption | 37W maximum (65W with low temperature operation) |
| Electrical connections | Terminal block for power, data and video specific to camera configuration |
| Cable entry | 3 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 | Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill |
| Mounting options | Pole or wall (see separate datasheets) |
| Operating temperature | From -58°F to +158°F (model dependent) |
| Weight (lb) | Up to 33lb depending on configuration |
| Thermal core module optio | ons control of the co |
| T336 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement |
| T640 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement |
| T336 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing |
| T640 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing |
| Thermal core lens options | |
| 19mm lens | FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m |
| 25mm lens | FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m |
| 35mm lens | FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m |
| 50mm lens | FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m |
| 100mm lens | FoV 3.3° x 2.5° (336 x 256) / FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø102 Germanium housings only |
| | |

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



XF26 HD IP series - UL range

Fixed camera station, hazardous location



Overview

The Oxalis XF26 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed specifically for the Americas markets or where UL standards on Class and Division have been specified. As a result they utilise NPT 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
- Supply voltage options 24 VAC
- Certified temperature from -76°F to +158°F* (ranging from T4A T6)
- IP66/67

*Model dependent





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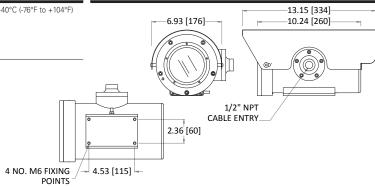
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Certifications

General arrangement drawing (dimensions in inches and mm)

Class I, Division 1, Groups B, C, D, T4+ -50°C to +70°C (-58°F to +158°F) T4A/T6 -60° to +40°C (-76°F to +104°F) Class II, Division 1, Groups E, F, G IP67 Class I 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 UL C1/D1



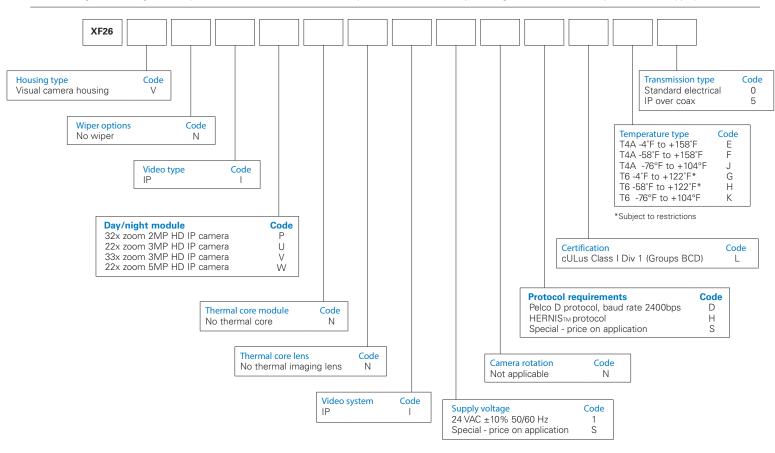
| Specifications | | | |
|---------------------------|---|------------------------|--|
| Features | | Electrical | |
| Sun shield | Standard stainless steel 316L mirror finish | Supply voltage options | 24 VAC |
| Integral wiper | No wiper | Power consumption | 18W maximum (45W with low temperature operation) |
| Integral demister | Standard | Electrical connections | Terminal block for power, data and video specific to camera configuration |
| Washer systems | No washer | Cable entry | 1 x ½"NPT located on housing side |
| Telemetry receiver | Integral - Pelco D standard protocol (others to specification) | Mechanical | |
| IP over coax | Optional integrated IP Ethernet-over-coax converter (must be used with compatible Rx equipment) | Body material | Electro-polished 316L stainless steel on all welded assemblies |
| Ingress protection rating | IP66/67, IP68 (1.5m for 24 hours) | Fixings material | A4 stainless steel |
| Type approval | DNVGL-CG-0339, 2016 (copper transmission only) | 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 18lb 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, SSDR, 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 | 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. |

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



XF26 thermal image analogue series
- UL range

Fixed camera station, hazardous location



Overview

The Oxalis XF26 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed specifically for the Americas markets or where UL standards on Class and Division have been specified. As a result they utilise NPT 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
- 4 different size lens options
- 4 resolution/frequency rating options
- · 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
- Certified temperature from -58°F to +158°F* (ranging from T4 - T6)
- IP66/67
 - *Model dependent





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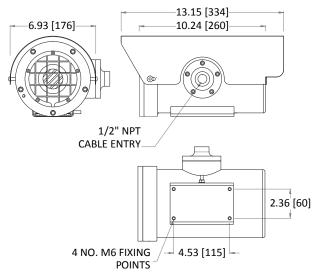
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Certifications

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 I 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

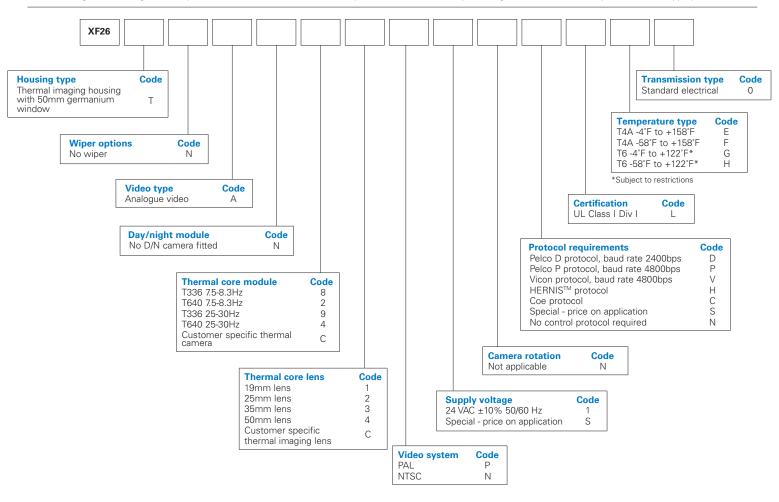
General arrangement drawing (dimensions in inches and mm)



| Specifications | |
|---------------------------|--|
| Certification part number | Housing options OXALIS-UL2410-04-TI-50 |
| Features | |
| Sun shield | Standard stainless steel 316L mirror finish |
| Integral demister | Standard |
| Telemetry receiver | Integral - Pelco D, P standard protocols (others to specification) |
| Ingress protection rating | IP66/67, IP68 (1.5m for 24 hours) |
| Type approval | DNVGL-CG-0339, 2016 (copper transmission only) |
| Electrical | |
| Supply voltage options | 24 VAC |
| Power consumption | 18W maximum (45W with low temperature operation) |
| Electrical connections | Terminal block for power, data and video specific to camera configuration |
| Cable entry | 1 x ½"NPT located on housing side |
| 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 (50 or 102mm Ø) with protective grill |
| Mounting options | Pole or wall (see separate datasheets) |
| Operating temperature | From -58°F to +158°F (model dependent) |
| Weight (lb) | Up to 18lb depending on configuration |
| Thermal core module optio | ns |
| T336 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement |
| T640 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement |
| T336 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing |
| T640 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing |
| Thermal core lens options | |
| 19mm lens | FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m |
| 25mm lens | FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m |
| 35mm lens | FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m |
| 50mm lens | FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m |
| | |

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 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





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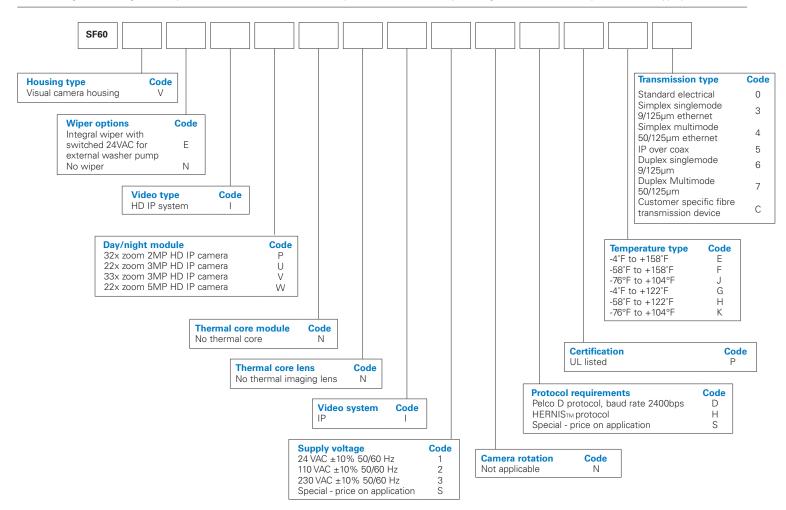
Specification Features Standard stainless steel 316L mirror finish Sun shield Integral wiper Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) Integral demister Standard Compatible with Oxalis SW washer tanks (see separate Washer systems datasheets) Telemetry receiver Integral - Pelco D standard protocol (others to specification) Optional integrated media converter, Simplex/duplex Singlemode IP direct fibre out 9/125µm or Multimode 50/125µm, 10/100Mb Ethernet, IEEE 802.3 Optional integrated IP ethernet-over-coax converter (must be used IP over coax with compatible Rx equipment) DNVGL-CG-0339, 2016 (copper transmission only) Type approval Ingress protection rating IP66/67 Electrical Supply voltage options 24 VAC, 110 or 230 VAC, 50/60Hz 37W maximum (65W with low temperature operation) Power consumption **Electrical connections** Terminal block for power, data and video specific to camera configuration 2 x ¾ "NPT located in rear flange Cable entry Mechanical **Body material** Electro-polished 316L stainless steel on all welded assemblies Fixings material A4 stainless steel Toughened glass Camera station window Mounting options Pole or wall (see separate datasheets) From -76°F to +158°F (model dependent) Operating temperature Up to 29lb depending on configuration Weight (lb) Camera options

General arrangement drawing (dimensions in inches and mm) 24.8 [630] 4 NO. M6 FIXING POINTS 2 X 3/4" NPT ENTRIES 6.24 [159] 6.24 [159] 2 X 3/4" NPT ENTRIES

| 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 53.7 - 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, SSDR, 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 | 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, |

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 thermal image analogue series - UL range

Fixed camera station, ordinary location



Overview

The Oxalis SF60 thermal imager is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments where thermal imaging is required for specific process or security applications. 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
- 5 different size lens options
- 4 resolution/frequency rating options
- 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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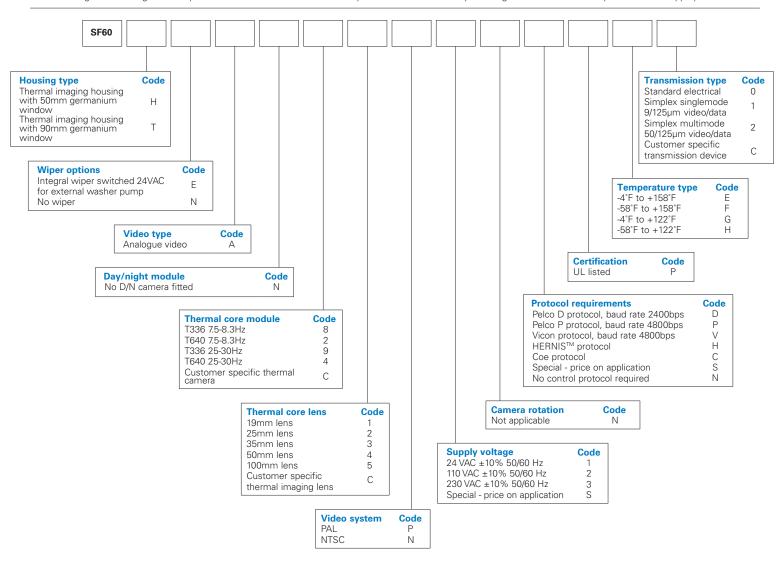
| Specifications | | General arrangement drawing (dimensions in inches and mm) |
|----------------------------|--|---|
| Features | | 24.8 [630] |
| Sun shield | Standard stainless steel 316L mirror finish | |
| Integral wiper | Optional (silicone wiper blades that are resistant and do not perish after 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, P standard protocols (others to specification) | 5.12 [130] |
| Rotation | Continuous Pan or 350° Rotation (+/- 175° from straight ahead) | |
| Analogue direct fibre out | Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station | 4 NO. M6 FIXING POINTS 2.36 [60] |
| Type approval | DNVGL-CG-0339, 2016 (copper transmission only) | - |
| Ingress protection rating | IP66/67 | 4.53 [115] |
| Electrical | | - |
| Supply voltage options | 24 VAC, 110 or 230 VAC, 50/60Hz | 6.7 [170] |
| 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 | Internal AR and external carbon coated germanium Ø50 mm | |
| Mounting options | Pole or wall (see separate datasheets) | 6.24 [159] |
| Operating temperature | From -58°F to +158°F (model dependent) | 2 X 3/4" NPT |
| Weight (lb) | Up to 29lb depending on configuration | ENTRIES |
| Thermal core module option | ons | |
| T336 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement | |
| T640 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TC Commands. 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8 | |
| T336 25-30Hz | | I Interface PCB for functionality over standard RS485 protocol Commands e, digital detail enhancement. Subject to export restrictions and licensing |
| T640 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TC Commands. 640 x 512 resolution (PAL), 17 μ pixel size, 30Hz NTSC/2 restrictions and licensing | |
| Thermal core lens options | | |
| 19mm lens | FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of ol | bject 4m x 1.5m: Typical 1550m |
| 25mm lens | FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of ol | bject 4m x 1.5m: Typical 2200m |
| 35mm lens | FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of c | object 4m x 1.5m: Typical 3000m |
| 50mm lens | FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of | object 4m x 1.5m: Typical 3900m |
| | | |

FoV 3.3° x 2.5° (336 x 256) / FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø90 Germanium housings only

100mm lens

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





SF40 HD IP series - UL range

Fixed camera station, ordinary location



Overview

The Oxalis SF40 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed specifically for the Americas markets or where UL ordinary location standards have been specified. 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)
- -76°F to +158°F* operating temperature
- IP66/67
 - *Model dependent





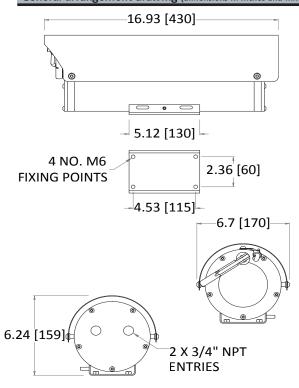
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| Specification | |
|---------------------------|---|
| Features | |
| Sun shield | Standard stainless steel 316L mirror finish |
| Integral wiper | Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, 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/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 | DNVGL-CG-0339, 2016 (copper transmission only) |
| Ingress protection rating | IP66/67 |
| Electrical | |
| Supply voltage options | 24 VAC |
| 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 20lb depending on configuration |
| | |

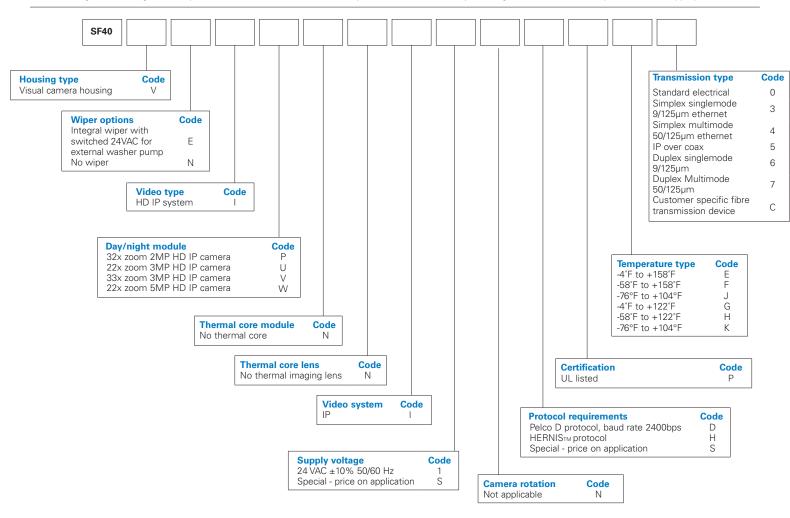
General arrangement drawing (dimensions in inches and mm)



| Camera options | . 1 0 | | |
|-----------------------------|---|---------------------------|--|
| 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, SSDR, 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 | 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 ca | mera | 22x zoom 5MP HD IP ca | amera |
| 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. |
| | | | · · |

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





SF40 thermal image analogue series - UL range

Fixed camera station, ordinary location



Overview

The Oxalis SF40 thermal imager is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments where thermal imaging is required for specific process or security applications.

The camera housings are designed specifically for the Americas markets or where UL ordinary location standards have been specified. 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
- 5 different size lens options
- 4 resolution/frequency rating options
- 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)
- -58°F to +158°F* operating temperature
- IP66/67
 - *Model dependent





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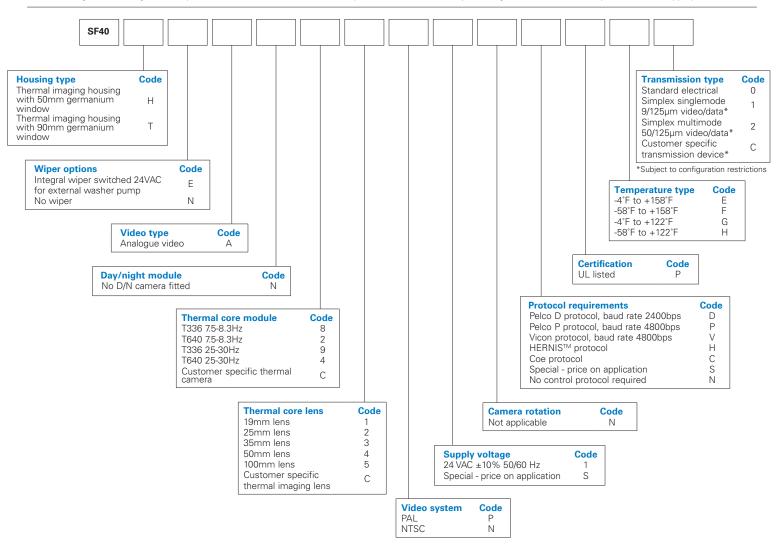
| Specifications | | General arrangement drawing (dimensions in inches and mn |
|----------------------------|--|--|
| Features | | 16.93 [430] |
| Sun shield | Standard stainless steel 316L mirror finish | 10.33 [430] |
| Integral wiper | Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) | |
| Integral demister | Standard | (1) |
| Washer systems | Compatible with Oxalis SW washer tanks (see separate datasheets) | |
| Telemetry receiver | Integral - Pelco D, P standard protocols (others to specification) | |
| Analogue direct fibre out | Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station | 5.12 [130] |
| Type approval | DNVGL-CG-0339, 2016 (copper transmission only) | |
| Ingress protection rating | IP66/67 | 4 NO. M6 2.36 [60] |
| Electrical | | FIXING POINTS |
| Supply voltage options | 24 VAC | |
| Power consumption | 37W Maximum (65W with low temperature operation) | -4.53 [115] |
| Electrical connections | Terminal block for power, data and video specific to camera configuration | 6.7 [170] |
| Cable entry | 2 x ¾ "NPT located in rear flange | |
| Mechanical | | 6 00 |
| 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 Ø50 mm | |
| Mounting options | Pole or wall (see separate datasheets) | |
| Operating temperature | From -58°F to +158°F (model dependent) | |
| Weight (lb) | Up to 20lb depending on configuration | |
| Thermal core module option | ons | 6.24 [159] |
| T336 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement | 2 X 3/4" NPT ENTRIES |
| T640 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCl Commands. 640 \times 512 resolution (PAL), 17 μ pixel size, 7.5Hz NTSC/8. | |
| T336 25-30Hz | | I Interface PCB for functionality over standard RS485 protocol Commands e, digital detail enhancement. Subject to export restrictions and licensing |
| T640 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TC Commands. 640 x 512 resolution (PAL), 17 μ pixel size, 30Hz NTSC/25 restrictions and licensing | |
| Thermal core lens options | | |
| 19mm lens | FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of ob | ject 4m x 1.5m: Typical 1550m |
| 25mm lens | FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of ob | ject 4m x 1.5m: Typical 2200m |
| 35mm lens | FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of ol | bject 4m x 1.5m: Typical 3000m |
| 50mm lens | FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of | object 4m x 1.5m: Typical 3900m |
| | | |

FoV 3.3° x 2.5° (336 x 256) / FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø90 Germanium housings only

100mm lens

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



SF26 thermal image analogue series - UL range

Fixed camera station, ordinary location



Overview

The Oxalis SF26 thermal imager is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments where thermal imaging is required for specific process or security applications.

The camera housings are designed specifically for the Americas markets or where UL ordinary location standards have been specified. 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
- 3 different size lens options
- 4 resolution/frequency rating options
- 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
- -58°F to +158°F* operating temperature
- IP66/67
 - *Model dependent



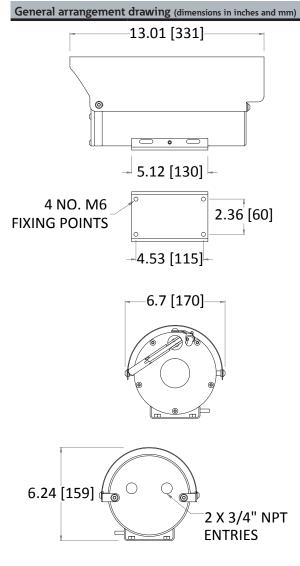


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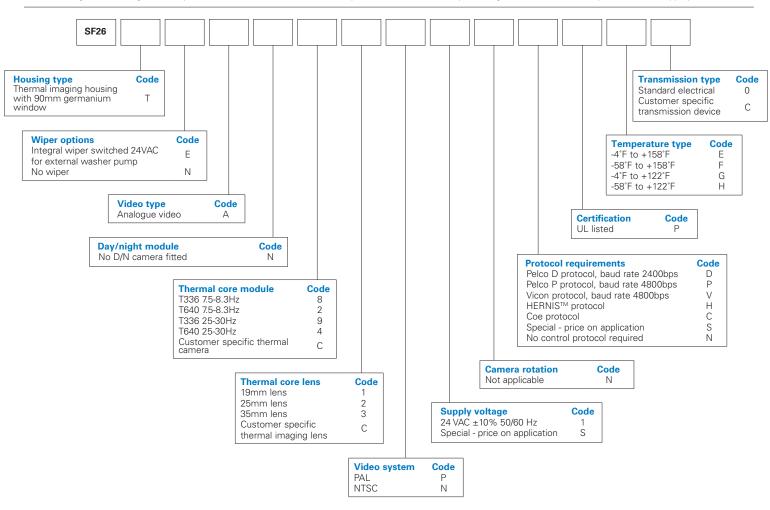
| Features | | |
|----------------------------|--|-------------------|
| Sun shield | Standard stainless steel 316L mirror finish | 13.01 |
| Integral wiper | Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) | |
| Integral demister | Standard | |
| Washer systems | Compatible with Oxalis SW washer tanks (see separate datasheets) | © |
| Telemetry receiver | Integral - Pelco D, P standard protocols (others to specification) | 9 |
| Type approval | DNVGL-CG-0339, 2016 (copper transmission only) | |
| Ingress protection rating | IP66/67 | |
| Electrical | | - 5.12 |
| Supply voltage options | 24 VAC, 50/60Hz | 3.12 |
| Power consumption | 17W maximum (45W with low temperature operation) | 4 NO. M6 |
| Electrical connections | Terminal block for power, data and video specific to camera configuration | FIXING POINTS |
| Cable entry | 2 x ¾ "NPT located in rear flange | 0 |
| Mechanical | | -4.53 |
| Body material | Electro-polished 316L stainless steel on all welded assemblies | 1.33 |
| Fixings material | A4 stainless steel | |
| Camera station window | Internal AR and external carbon coated germanium Ø50 mm | - —6.7 |
| Mounting options | Pole or wall (see separate datasheets) | |
| Operating temperature | From -58°F to +158°F (model dependent) | |
| Weight (lb) | Up to 18lb depending on configuration | |
| Thermal core module option | ons | |
| T336 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement | |
| T640 7.5-8.3Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement | |
| T336 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing | 6.24 [159] |
| T640 25-30Hz | Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing | |



| 19mm lens | FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m |
|-----------|--|
| 25mm lens | FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m |
| 35mm lens | FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m |

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





SF40 TI IP series UL range

Fixed camera station, ordinary location



Overview

The Oxalis SF40 thermal imager is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments where thermal imaging is required for specific process or security applications.

The camera housings are designed specifically for the Americas markets or where UL ordinary location standards have been specified. 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)
- -76°F to +158°F* operating temperature
- IP66/67
- *Model dependent



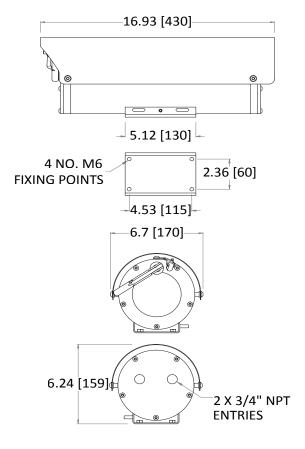
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General arrangement drawing (dimensions in inches and mm)

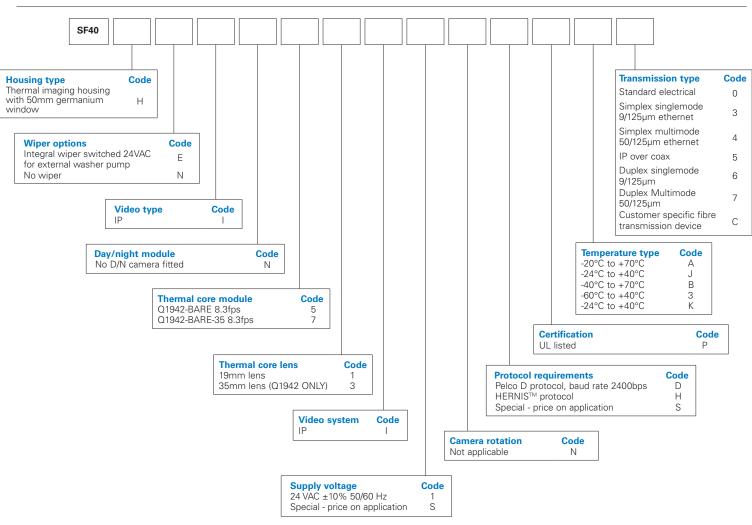
| Specifications | |
|---------------------------|---|
| Features | |
| Sun shield | Standard stainless steel 316L mirror finish |
| Integral wiper | Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) |
| Integral demister | Standard |
| Washer systems | Compatible with Oxalis SW washer tanks (see separate datasheets) |
| Telemetry receiver | Integral |
| IP direct fibre out | Optional 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) |
| Ingress protection rating | IP66/67 |
| Type approval | DNVGL-CG-0339, 2016 (copper transmission only) |
| Electrical | |
| Supply voltage options | 24 VAC, 50/60Hz |
| Power consumption | 37W maximum |
| Electrical connections | Terminal block for power, RJ45 for network |
| 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 | Internal AR and external carbon coated germanium Ø50 mm |
| Mounting options | Pole or wall (see separate datasheets) |
| Operating temperature | From -76°F to +158°F (model dependent) |
| Weight (lb) | Up to 20lbs depending on configuration |
| 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 pal- ettes, 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 | ONVIF Profiles S&T, 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 | ONVIF Profiles S&T, 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 |

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



CROUSE-HINDS SERIES

SF60 TI IP series - UL range

Fixed camera station, ordinary location



Overview

The Oxalis SF60 thermal imager is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments where thermal imaging is required for specific process or security applications. 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



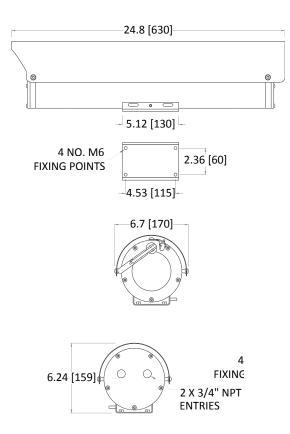
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Eaton is a registered trademark.

General arrangement drawing (dimensions in inches and mm)

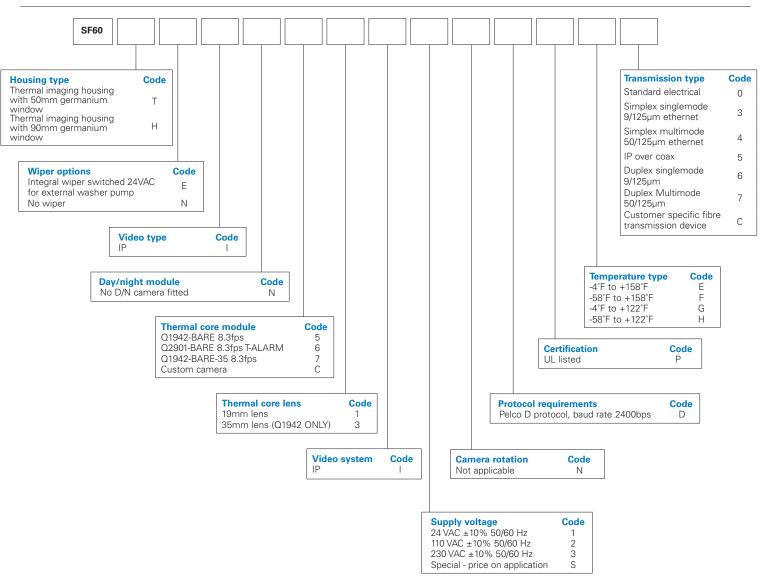
| Specifications | |
|---------------------------|--|
| Features | |
| Sun shield | Standard stainless steel 316L mirror finish |
| Integral wiper | Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) |
| Integral demister | 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/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) |
| 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 | 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 | Internal AR and external carbon coated germanium Ø50mm or Ø90mm |
| 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 |
| 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, 25μμρίχεΙ size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement |



| Thermal camera option | ons | | |
|-----------------------|---|----------------------|--|
| Q1942-BARE 8.3fps | | Q1942-BARE-35 8.3fps | |
| Image sensor | Uncooled Micro bolometer 640x480, pixel size: 17 μ m Spectral range: 8-14 μ m 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, OoS 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



XFG1 GRP Fixed HD IP Camera - US range

Ex d, weatherproof, fixed camera station



Overview

The Oxalis XFG fixed camera station has been designed for use in potentially explosive atmospheres and harsh environmental conditions - suitable for use both offshore or onshore, where light weight combined with corrosion resistance is required.

Built upon the proven Eaton MEDC expertise, the housing is made from a UV stable glass reinforced polyester and supplied with a 316L stainless steel mounting bracket ensuring a totally corrosion free product.

The XFG1 is designed and manufactured for longevity in harsh environments, reuires minimal maintenance and is fully certified to UL standards as required by OSHA for use in both safe and hazardous areas

Features

- Class 1 Division 2 and Zone 1 certified
- AEx db IIB T4/T5/T6, AEx tb IIIC T135/T100°C
- NEMA 4x & 6
- Certified and operating temperature range from -76F to +158F
- · Corrosion free GRP
- Supply voltage 12 VDC, 24 VDC, 24 VAC, PoE
- Optional fibre transmission
- Various cable tail lengths





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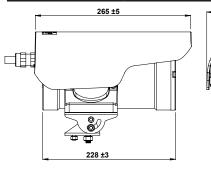
T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2023 Eaton All Rights Reserved Printed in UK Publication No.DSOU0096.A May 2023

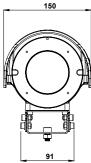
Eaton is a registered trademark.

Certifications

Cert No. SGSNA20/CA/00004X SGS UL C1/D2 Class I,Division 2, Groups C & D Class II Division 2, Groups F & G Class I Zone 1 AEx db IIB T4/T5/T6 Class II Zone 2 IIIC AEx tb IIIC T135/T100°C

General arrangement drawing (all dimensions in mm)

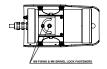














| Features Body Filmer retardant, UV stable, glass reinforced polyester, VO flammability rating Camera station window Toughened glass Finings and station window Toughened glass Integral demists Standard Integral demists Standard Operating temperature Optional media conventor, simplev/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3 Operating temperature Optional media conventor, simplev/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3 Operating temperature Optional media conventor, simplev/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3 Operating temperature Optional media conventor, simplev/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3 Operating temperature Optional media conventor, simplev/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3 Operating temperature Optional media conventor, simplev/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3 Operating temperature Vin A. 48 6 Respect to Michael Mark Schol Mark Scholar Sc | Specifications | |
|--|-----------------------------|---|
| Sun shield Flame retardant, LV stable, glass reinforced polyestor, VO fiammability rating Camers station window Toughened glass Exhiging material 316L stanless stated Integral demister Standard UP direct fibre out options Optional media conventor, simplex/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3 Operating temperature From 7-0° 10 = 158F Mounting options Supplied with swivel and wall mounting bracket. Swivel range pan 200°, tilt 15° up, 80° down. (Tilt is interchangeable) Ingress Protection Rating NEMA &x & 6 Electrical Supply voltage options 12VDC, 24VDC, 24VAC, 220 VAC or PoE Power consumption 12VDC, 24VDC, 24VAC, 220 VAC or PoE Poer on sumption 12VDC, 24VDC, 24VAC, 220 VAC or PoE Poer consumption 12VDC, 24VDC, 24VAC, 250 VAC or PoE Poer to sumption 12VDC, 24VDC, 24VAC, 250 VAC or PoE Poer to sumption 12VDC, 24VDC, 24VAC, 250 VAC or PoE Poer consumption 12VDC, 24VDC, 24VAC, 250 VAC or PoE Poer to sumption 12VDC, 24VDC, 24VAC, 250 VAC or PoE Research to a contract it is supplied with conduit tail, length selectable in order code. Power cables from \$10m, 15m 415m. Lase | Features | |
| Camera station window Toughened glass Fixings material 316L stainless steel Integral demister Standard Polimet fibre out options Optional media convertor, simplex/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3 Operating temperature From 78° to + 180F Mounting options Supplied with savival and wall mounting bracket. Swival range pan 200°, tilt 15° up, 80° down. (Tilt is interchangeable) Ingress Protection Rating NEMA 4x & 6 Weight (kg) up to 4 kg including sunshield, 6 kg including mounting brackets Electrical Supply voltage options 12VDC, 24VAC,DC, 13V maximum, 124W @ -20°C, 43W @ -40°C, 63W @ -60°C with low temperature operation). Poerer consumption 12VDC, 24VAC,DC, 13W maximum, 124W @ -20°C, 43W @ -40°C, 63W @ -60°C with low temperature operation) Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ±10m, 15mm ±15m. Camera options 22x soons 3MP HD P cames. Passessor Progressive scan CMOS 172.8° Resolution 2304 x 1296 @ 30fps Lens 23c soptical zoons 52 -114.4mm F15-F38, horizontal angle of view 53.74° + 2.96° Min. Illumination Colour -1 0x02Lux (F15, AGC ON), BW 0.0001Lux (F15, | Body | Flame retardant, UV stable, glass reinforced polyester, 5VA flammability rating |
| Fixings material Standard S | Sun shield | Flame retardant, UV stable, glass reinforced polyester, VO flammability rating |
| Integral demister IP direct fibre out options Optional media convertor, simplex/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethemet, IEE 802.3 Operating temperature From -76° to + 158F Mounting options Supplied with swived and wall mounting bracket. Swivel range pan 200°, tilt 15° up, 80° down. (Tilt is interchangeable) Ingress Protection Rating NEMA 4x & 6 Weight (kg) up to 4 kg including sunshield, 6 kg including mounting brackets Supply voltage options 12VDC, 24VAC, 22 VAC or PoE Power consumption 12VDC, 24VAC/DC, 13W maximum, (24W € -20°C, 43W € -40°C, 53W € -60°C with low temperature operation). POE 10W maximum, 20W € -20°C, 43W € -40°C, 53W € -60°C with low temperature operation). POE 10W maximum, 20W € -20°C, 43W € -40°C, 53W € -60°C with low temperature operation) Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤ 10m, 15mm ≤ 15m. Camera options 22x coom 3MP HD IP camera Resolution 2304 x 1296 € 30°ps Lens 22x optical zoom 5.2-114.4mm F1.5-F3.8, horizontal angle of view 53.74° - 2.96° Min. illumiation Colour ± 0.002Lux (F15, AGC ON), BAV 0.001Lux (F15, AGC ON) Streaming Tiple 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) 33x zoom 3MP network-camera Image Sensor Progressive scan CMOS 1/2.8° Min. illumination Colour ± 0.001Lux (F15, AGC ON), BAV 0.0005Lux (F15, AGC ON) Streaming Five 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) AGC, AE, AWB, TDN, DNR, BLC, EIS, WDR, Defog, OSD, Day & Night Auto Colour/BW (IR-cut with auto switch) AGC, AE, AWB, TDN, DNR, BLC, EIS, WDR, Defog, OSD, Day & Night Auto Colour/BW (IR-cut with auto switch) AGC, AE, AWB, TDN, DNR, BLC, EIS, WDR, Defog, OSD, Day & Night Auto Colour/BW (IR-cut with auto switch) AGC, AE, AWB, TDN, DNR, BLC, EIS, WDR, Defog, OSD, Day & Night Auto Colour/BW (IR-cut with auto switch) | Camera station window | Toughened glass |
| Profined Fibre out options Optional media convertor, simplex/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3 Operating temperature From -76° to - 158F Mounting options Supplied with swivel and wall mounting bracket. Swivel range pan 200°, tilt 15° up. 80° down. (Tilt is interchangeable) Images Protectional range NEMA 4x & 6 Weight (kg) up to 4 kg including sunshield, 6 kg including mounting brackets Electrical Supply voltage options 12VDC, 24VAC, 220 VAC or PoE Power consumption 12VDC, 24VAC/20C, 13W maximum, (24W @ -20°C, 43W @ -40°C, 53W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 43W @ -40°C, 52W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 45W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum (20W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum (20W @ -20°C, | Fixings material | 316L stainless steel |
| Operating temperature From -76° to + 158F Mounting options Supplied with swivel and well mounting bracket. Swivel range pan 200°, tilt 15° up, 80° down. (Tilt is interchangeable) Ingress Protection Rating NEMA 4x & 6 Weight (kg) up to 4 kg including sunshield, 6 kg including mounting brackets Electrical Supply voltage options 12VDC, 24VDC, 220 VAC or PoE Power consumption 12VDC, 24VACDC, 13W maximum, (24W @ -20°C, 43W @ -40°C, 63W @ -60°C with low temperature operation). POE 10W maximum, (24W @ -20°C, 36W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm s10m, 15mm s16m. Camera options Progressive scan CMOS 1/2.8° Resolution 2304 x 1296 @ 30fps Lens 22x option 52 – 114.4mm F1.5 – F3.8, horizontal angle of view 63.74° - 2.96° Min. illumination Colour : 0.002Lux (F15, AGC ON), B.W 0.001Lux (F15, AGC ON) Streaming Triple streams in H.264, H.265 Features AGC, AE, AWB, TON, 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, UPP, EHTTP, SNMP, SIP Re | Integral demister | Standard |
| Mounting options Supplied with swivel and wall mounting bracket. Swivel range pan 200°, tilt 15° up, 80° down. (Tilt is interchangeable) Ingress Protection Rating NEMA 4x & 6 Weight (kg) up to 4 kg including sunshield, 6 kg including mounting brackets Electrical Supply voltage options 12VDC, 24VDC, 24VAC, 220 VAC or PoE Power consumption 12VDC, 24VAC/DC, 13W maximum, (24W @ -20°C, 43W @ -40°C, 63W @ -60°C with low temperature operation) Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤10m, 15mm ≤15m. Camera options 22x zoom 3MP HD IP camera Image sensor Progressive scan CMOS 1/2.8° Resolution 230 x 1296 @ 30fps Lens 22x optical zoom 5.2–114.4mm F1.5–F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour : 0.002Lux (F1.5, AGC ON), BW 0.001Lux (F1.5, AGC ON) 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) 3x zoom 3MP network camera LaTP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPDE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 3x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8° | IP direct fibre out options | Optional media convertor, simplex/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mlb Ethernet, IEE 802.3 |
| Ingress Protection Rating NEMA 4x & 6 Weight (kg) up to 4 kg including sunshield, 6 kg including mounting brackets Electrical Supply voltage options 12VDC, 24VDC, 22VDC, 24VAC, 220 VAC or PoE Power consumption 12VDC, 24VAC/DC, 13W maximum, (24W @ -20°C, 43W @ -40°C, 63W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation). Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤10m, 1.5mm ≤15m. Camera options 22x xoom 3MP HD IP camera Image sensor Progressive scan CMOS 1/2.8° Resolution 2304 x 1256 @ 30fps Lens 22x optical zoom 5.2 - 114.4mm F1.5 - F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour: 0.002Lux (F1.5, AGC ON), BW 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8° Resolution 2304 x 1236 @ 60fps AS optical zoom 4.5 – 148.5mm F1.5 – F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour: 0.001Lux (F1.5, AGC ON), BW 0.0005Lux (F1.5, AGC ON) Streaming Five streams in H.264, H.265 Features AGC, AEAWB,TDN, DNR, BLC, EIS, WDR, Defog, OSD, Day & Night Auto Colour/BW (IR-cut with auto switch) | Operating temperature | From -76° to + 158F |
| Weight (kg) up to 4 kg including sunshield, 6 kg including mounting brackets Electrical Supply voltage options 12VDC, 24VAC, 220 VAC or PbE Power consumption 12VDC, 24VACDC, 13W maximum, (24W ⊕ -20°C, 43W ⊕ -40°C, 63W ⊕ -60°C with low temperature operation). POE 10W maximum, (20W ⊕ -20°C, 36W ⊕ -40°C, 52W ⊕ -60°C with low temperature operation). Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤10m, 1.5mm ≤15m. Camera options Z2x zoom 3MP HD IP camera Image sensor Progressive scan CMOS 1/2.8" Resolution 230 4 x 1296 ⊕ 30fps Lens 22x optical zoom 5.2 –114.4mm F1.5–F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour: 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5–148.5mm F1.5–F4.0, horizontal angle of view 62.93° - 3.6 | Mounting options | Supplied with swivel and wall mounting bracket. Swivel range pan 200°, tilt 15° up, 80° down. (Tilt is interchangeable) |
| Electrical Supply voltage options 12VDC, 24VDC, 24VAC, 220 VAC or PoE Power consumption 12VDC, 24VAC/DC, 13W maximum, (24W @ -29°C, 43W @ -40°C, 63W @ -60°C with low temperature operation). PoE 10W maximum, (20W @ -20°C, 36W @ -60°C with low temperature operation). Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤10m, 1.5mm ≤15m. Camera options 22x zom 3MP HD IP camera Image sensor Progressive scan CMOS 1/2.8° Resolution 2304 x 1296 @ 30fps Lens 22x optical zoom 5.2-114.4mm F1.5-F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour : 0.002Lux (F1.5, AGC ON), B.W 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPP6E, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8° Resolution 2304 x 1296 @ 60fps ASS applical zoom 4.5-148.5mm F1.5-F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour : 0.001Lux (F1.5, AGC ON), B.W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) Streaming Five 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) | Ingress Protection Rating | NEMA 4x & 6 |
| Supply voltage options 12VDC, 24VAC, DC, 13W maximum, (24W @ -20°C, 43W @ -40°C, 63W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation). Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤10m, 1.5mm ≤15m. Camera options 22x zoom 3MP HD IP camera Image sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 30fps Lens 22x optical zoom 5.2–114.4mm F1.5–F3.8, horizontal angle of view 53.74° - 2.96° Mini. Illumination Colour: 0.002Lux (F1.5, AGC ON), BW 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IP-v4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5–148.5mm F1.5–F4.0, horizontal angle of view 62.93° - 3.67° Mini. Illumination Colour: 0.001Lux (F1.5, AGC ON), BW 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Weight (kg) | up to 4 kg including sunshield, 6 kg including mounting brackets |
| Power consumption 12VDC, 24VAC/DC, 13W maximum, (24W @ -20°C, 43W @ -40°C, 63W @ -60°C with low temperature operation). POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation) Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤10m, 1.5mm ≤15m. Camera options 22x x xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | Electrical | |
| POE 10W maximum, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation) Cable Entry Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤10m, 1.5mm ≤15m. Camera options 22x zoom 3MP HD IP camera Image sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 30fps Lens 22x optical zoom 5.2-114.4mm F1.5-F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour : 0.002Lux (F1.5, AGC ON), B.W 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP 33x zoom 3MP network camera Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5-148.5mm F1.5-F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Supply voltage options | 12VDC, 24VDC, 24VAC, 220 VAC or PoE |
| Camera options 22x zoom 3MP HD IP camera Image sensor Progressive scan CMOS 1/Z.8" Resolution 2304 x 1296 @ 30fps Lens 22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour : 0.002Lux (F1.5, AGC ON), BW 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/Z.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Power consumption | |
| Image sensor Progressive scan CMOS 1/2.8" | Cable Entry | Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤10m,1.5mm ≤15m. |
| Image sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 30fps Lens 22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour : 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Camera options | |
| Resolution 2304 x 1296 @ 30fps Lens 22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour : 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | 22x zoom 3MP HD IP camer | ra |
| Lens 22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour : 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Image sensor | Progressive scan CMOS 1/2.8" |
| Min. illumination Colour: 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON) 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Resolution | 2304 x 1296 @ 30fps |
| 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) Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Lens | 22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96° |
| 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. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Min. illumination | Colour: 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON) |
| Standards protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. 33x zoom 3MP network camera Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Streaming | Triple streams in H.264, H.265 |
| Image Sensor Progressive scan CMOS 1/2.8" Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) |
| Image SensorProgressive scan CMOS 1/2.8"Resolution2304 x 1296 @ 60fpsLens33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°Min. IlluminationColour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)StreamingFive streams in H.264, H.265FeaturesAGC, 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. |
| Resolution 2304 x 1296 @ 60fps Lens 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Min. Illumination Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | 33x zoom 3MP network camera | |
| Lens33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°Min. IlluminationColour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)StreamingFive streams in H.264, H.265FeaturesAGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch) | Image Sensor | Progressive scan CMOS 1/2.8" |
| Min. Illumination Colour : 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Streaming Five 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) | Resolution | 2304 x 1296 @ 60fps |
| Streaming Five 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) | Lens | 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° |
| Features AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch) | Min. Illumination | Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) |
| | Streaming | Five streams in H.264, H.265 |
| Standards Protocols L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. | 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. |

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

