EyeCGas® FX OGI - FUGITIVE EMISSIONS DETECTION AUTOMATIC CAMERA





Gas leak detection equipment is vital to keeping your employees, products and environment safe. EyeCGas° FX finds leaks from a safe distance and automatically alerts plant personnel.

EyeCGas® FX

Building on the success of the handheld EyeCGas°FX camera, EyeCGas°FX is the next generation automatic camera for installation in factories, as well as offshore platforms and rigs. This highly reliable system responds to the demands of 24/7 monitoring. EyeCGas® FX is specially designed for the natural gas, oil and petrochemical industries.





EyeCGas® FX includes a highly sensitive IR camera and an HD color camera for fast recognition of the areas being inspected. The camera allows safe and ongoing monitoring of all areas of the plant, including remote and inacessible areas. Video can be saved locally (on the camera) or remotely (feed sent to control room).



Standard Color Image



Detection Mode



Gas Colorized Mode

EyeCGas® FX Detects More Than 30 Gases

- Ethylene
- 1,2-dimethyl-Benzene
- 1-Hexane
- Propylene 1-pentene
- Propanal
- Ethyl Ketone 2-butanone
- 1-Butene

- Isopropyl alcohol
- Methane
- MEK Methyl

- Isobutylene
- Isoprene
- Benzene
- Ethyl benzene
- Ethylene oxide
- Hexane

- Methanol
- Propylene oxide
- Propylene

Octane

Heptane

- Ethane
- Toluene
- Acetic acid

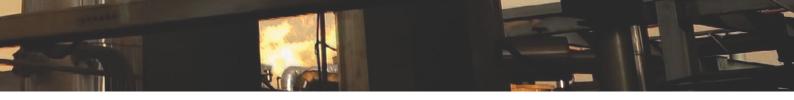
Propane

Butane

Pentane

Xylene

- Styrene
- 1,3-Butadiene



High sensitivity to a spectrum invisible to the human eye makes EyeCGas° FX a critical tool in fugitive gas leak detection.



EyeCGas® FX enables fast recognition of methane and Volatile Organic Compound (VOC) leaks and transmission of automatic alerts via a color display and warning message.

24/7 Monitoring of Designated Areas

High reliability system for hazardous, explosive and toxic gas leaks makes EyeCGas® FX a critical all year-round monitoring tool.

Smooth Integration

EyeCGas® FX GUI integrates with plant monitoring software, providing video feed in real time. The GUI enables control room operators to view the display in black hot/ white hot, NUC, digital zoom, and

Simple and Powerful

EyeCGas® FX allows the inspection of vast areas for gas leaks and can be adjusted to specific user requirements.

Safety

EyeCGas® FX is certified for: IECEx - ATEX Ex II 2G d T6 and NEC 500 Class I Division 1.



Why EyeCGas® FX?

- Reliable: Extremely low false alarm rate
- Tried and tested: Certified for use in hazardous environments
- Rugged: Durable design enables outdoor use all year round

OPGAL. Seeing beyond the visible for a clean global environment.

Opgal Optronic Industries, a leading global manufacturer, leverages more than 30 years of field-proven thermal imaging experience and excellence in the design and development of IR engines & cameras. The EyeCGas® FX camera brings Opgal's cutting edge technology to the natural gas and petrochemical markets.

EyeCGas® FX - Gas Imaging Camera - Specifications

| Thermal Sensitivity 20mK@ 25°C F8 1.1 Field of View 18° with 30 mm lens or 7.3° with 75mm lens Focus Adjusted to infinity Focusing N/A Digital Zoom Continuous up to 8X Portagor Type Cooled high sensitivity , 320x240 pixels Spectral range 3-5µm Digital Zoom Codification Codor digital camera channel Full HD Digital Zoom Continuous up to 8X Power lens Codor digital camera channel Full HD Digital Zoom Continuous up to 8X Power lens Codor digital camera channel Full HD Digital Zoom Continuous up to 8X Power lens Codor digital camera channel Full HD Digital Zoom Continuous up to 8X Power consumption 18 W Fingulation Chancetoristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Four threaded UNC 1/4" and tripod mounting UNC 1/4", | Imaging Performance | |
|--|--|---|
| Thermal Sensitivity 20mK® 25°C File 1.1 Field of View 18" with 30 mm lens or 7.3" with 75mm lens Focus Adjusted to infinity Focusing N/A Digital Zoom Continuous up to 8X Detector Stype Cooled high sensitivity , 320x240 pixels Spectral range 3-5µm Digital Zoom Continuous up to 8X Detector Stype Cooled high sensitivity , 320x240 pixels Spectral range 3-5µm Digital Zoom Continuous up to 8X Power Consumption Total Video Genera Color digital camera channel Full HD Digital zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Power consumption 16 W Digital Zoom Continuous up to 8X Digital Zoom Continuous u | | |
| Fill Field of View | • | 20mK@ 25°C |
| Field of View 18" with 30 mm lens or 7.3" with 75mm lens Focus Adjusted to infinity Focusing N/A Digital Zoorm Continuous up to 8X Detector Type Cooled high sensitivity , 320x240 pixels Spectral range 3-5µm Bottel Vidua Comera Coolor digital camera channel Full HD Digital zoom Continuous up to 8X Fower Input Voltage 12 VDC Power consumption 16 W Physical Obracionists Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L. XD) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Entrangmental Conditions Operature and humidity EC 60088-2-20 Temp. +25°C / +40°C Humidity 95% RH FOC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-2 : 2007 class A - Radiated Emissions EN 610000-6-2 : 2005 class A - Inflority to Electrostatic Discharge (ESD) EN 610000-6-2 : 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 24 GRMS Random Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration Ievel: Max temp.: 55 deg, Min temp.: -20 deg Safety X X C November 10 Carbinos C | • | |
| Focusing N/A Digital Zoom Continuous up to 8X Detector Type Cooled high sensitivity , 320x240 pixels Spectral range 3-5µm Digital Zoom Continuous up to 8X Power Input Voltage 12 VDC Power consumption 16 W Physical Contractoristics Weight 24 kg with sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Color Natural sliver natural, Stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel Size in (L x D) 47.6" As a stanley steel | | |
| Focusing N/A Digital Zoom Continuous up to 8X Detector Type Cooled high sensitivity , 320x240 pixels Spectral range 3-5 μm Digital Zoom Continuous up to 8X Detector Gilptal camera channel Digital Zoom Continuous up to 8X Power Insut Voitage 12 VDC Power consumption 16 W Proyecal Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310 mm X 195 mm (122* x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to +50°C Storage temperature range -40° to +70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart 8 - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Inmunity to Dectrostatic Discharge (ESD) EN 610000-6-2 Vibration 2.4 GRMS Random Vibration Vibration 1P68 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety Ex C € EN 6000 for Class 1 Division I IECE Safety EN 6000 for Class 1 Division I IECE Lightening protection On power and Ethernet lines First Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-08 Schedule F Test method D999 | | |
| Digital Zoom Continuous up to 8X Detector Type Cooled high sensitivity , 320x240 pixels Spectral range 3-5µm Digital Yolfoo German Color digital camera channel Digital zoom Continuous up to 8X Power pout Voltage 12 VDC Power consumption 16 W Prysical Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to + 50°C Storage temperature range 40° to + 70°C Storage temperature range 1EC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH ENC/ EMI EN 610000-6-2: 2005 class A - Inantariot Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration | | |
| Type Cooled high sensitivity , 320x240 pixels Spectral range 3-5µm Digital Zoom Continuous up to 8X Power Input Voltage 12 VDC Power consumption 16 W Prysical Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (1x D) 310mm X 195mm (122* x 76.87) without sun shield Interface Four threaded UNC 1/4* and tripod mounting UNC 1/4*, rotation safe Environmental Conditions Operating temperature range -33°C to +50°C Storage temperature range -33°C to +50°C Storage temperature range 1EC 47 CPR part 15 subpart 8 - Radiated Emissions EN 610000-6-2; 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2; 2005 class A - Radiated Immunity to Electrostatic Discharge (ESD) EN 610000-6-2; 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 2.4 GRMS Random Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temps: 55 deg, Min temps: -20 deg Safety Ex C € NEC 500 for Class I Division I ECE x TEXE X II 2G T6 NEC 500 for Class I Division I ECE x TIME Accelerated Life Test Vibration level: Max temps: 55 deg, Min temps: -20 deg Safety Ex C € NEC 500 for Class I Division I ECE x TEXE X II 2G T6 On power and Ethernet lines Environmental Conditions when Packed in Carrying Casse Free fall (drop) test ASTM-D 4169-08 Schedule A ASTM-D 4169-08 Schedule F Test method D999 | | |
| Type Cooled high sensitivity , 320x240 pixels Spectral range 3-5µm Clord digital camera channel Full HD Digital zoom Continuous up to 8X Power input Voltage 12 VDC Power consumption 16 W Physical Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Entironmental Conditions Operating temperature range -33°C to + 50°C Storage temperature range -40° to + 70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions ENGC/EMI FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-2 : 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2 2005 class A - Radiated Immunity to RFE EN 610000-6-2 : 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 2.4 GFMS Random Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety Ex (Ex Color Class I Division I IEC Ex ATEX Ex d II 2G TB Ughtening protection On One at Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-08 Schedule F Test method D999 | <u> </u> | Continuous up to 8x |
| Spectral range 3-5µm Digital Vidoo Comera Color digital camera channel Full HD Digital zoom Continuous up to 8X Power lipput Voltage 12 VDC Power consumption 16 W Physical Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L.X.D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to + 50°C Storage temperature range -40° to + 70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4: 2007 class A - Radiated Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 2.4 GRMS Random Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN6050-1:2006 Safety EN6050-1:2006 Lightening protection Porce and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule F Test method D999 | _ | 0 1 11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| Color digital camera channel Full HD Digital zoom Continuous up to 8X Power Input Voltage 12 VDC Power consumption 18 W Physical Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range 33°C to + 50°C Storage temperature range 40° to + 70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Vibration Vibration IP66 HALT - High Accelerated Life Test Nicration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 Safety EN60950-1:2006 Ligote ATEX Ext II 12 GT6 Lightening protection Power and Electrost times Environmental Conditions when Packed in Carrying Gase Free fall (drop) test ASTM-D 4169-08 Schedule A Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | | |
| Color digital camera channel Digital zoom Continuous up to 8X Power Input Voltage 12 VDC Power consumption 16 W Physical Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to + 50°C Storage temperature range -40° to + 70°C Temperature and humidity EC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4: 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Vibration P66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1: 2006 NEC 500 for Class1 Division I IECEX ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test | | 3-5μm |
| Digital zoom Continuous up to 8X Power Input Voltage 12 VDC Power consumption 16 W Physical Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Princomental Conditions Operating temperature range -33°C to +50°C Storage temperature range -40° to +70°C Temperature and humidity EC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Radiated Immunity to BFE EN 610000-6-2: 2005 class A - Radiated Immunity to FFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 2.4 GRMS Random Vibration Water and clust protection P66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety Ex C C Go for Class 1 Division I ECEX ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test | | |
| Power consumption 16 W Provious Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Provious temperature range -33°C to +50°C Storage temperature range -40° to +70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 2.4 GRMS Random Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety ★ C ★ ★ New York Company C | | |
| Voltage | , | Continuous up to 8X |
| Power consumption 16 W Physical Characteristics Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to +50°C Storage temperature range -40° to +70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 2.4 GRMS Random Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety Ex C C C Solo on power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | Power Input | |
| Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to + 50°C Storage temperature range -40° to + 70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2 : 2005 class A - Immunity to RFE EN 610000-6-2 : 2005 class A - Radiated Immunity to RFE EN 610000-6-2 : 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 2.4 GRMS Random Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety Ex C € S NEC 500 for Class1 Division I IECCx ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test ASTM-D 4169-06 Schedule F Test method D999 | | |
| Weight 24 kg with sun shield Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to + 50°C Storage temperature range -40° to + 70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH EMC/ EMI FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 2.4 GRMS Random Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 Safety EN60950-1:2006 NEC 500 for Class1 Division I lECEx ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | Power consumption | 16 W |
| Color Natural silver natural, Stanley steel Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to +50°C Storage temperature range -40° to +70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH EMC/ EMI EMC/ EMI FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Vibration Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEx ATEX Ex d II 2G T6 On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A ASTM-D 4169-08 Schedule F Test method D999 | Physical Characteristics | |
| Size in (L x D) 310mm X 195mm (122" x 76.8") without sun shield Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to + 50°C Storage temperature range -40° to + 70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4: 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Vibration P66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEx ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A ASTM-D 4169-08 Schedule F Test method D999 | Weight | 24 kg with sun shield |
| Interface Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe Environmental Conditions Operating temperature range -33°C to + 50°C Storage temperature range -40° to + 70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4: 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration 2.4 GRMS Random Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety Ex C C C C C C C C C C C C C C C C C C | Color | Natural silver natural, Stanley steel |
| Operating temperature range -33°C to +50°C Storage temperature range -40° to +70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Vibration Vater and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEx ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | Size in (L x D) | 310mm X 195mm (122" x 76.8") without sun shield |
| Operating temperature range -33°C to + 50°C Storage temperature range -40° to + 70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2 : 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2 2005 class A - Radiated Immunity to RFE EN 610000-6-2 : 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Vibration IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEX ATEX Ex d II 2G T6 Unper the first of the first of the power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-08 Schedule F Test method D999 | Interface | Four threaded UNC 1/4" and tripod mounting UNC 1/4", rotation safe |
| Storage temperature range -40° to + 70°C Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Water and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEX ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | | |
| Temperature and humidity IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Vater and dust protection IP66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEX ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-08 Schedule F Test method D999 | Operating temperature range | -33°C to + 50°C |
| FCC 47 CFR part 15 subpart B - Radiated Emissions EN 610000-6-4 : 2007 class A - Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Vibration P66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEX ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | Storage temperature range | -40° to + 70°C |
| Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to RFE EN 610000-6-2: 2005 class A - Radiated Immunity to Power Frequency magnetic field Vibration Uibration P66 HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEx ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-06 Schedule F Test method D999 | Temperature and humidity | IEC 60068-2-30 Temp. +25°C / +40°C Humidity 95% RH |
| Water and dust protection HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEX ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-08 Schedule F Test method D999 | EMC/ EMI | Radiated Emissions EN 610000-6-2: 2005 class A - Immunity to Electrostatic Discharge (ESD) EN 610000-6-2: 2005 class A - Radiated Immunity to RFE |
| HALT - High Accelerated Life Test Vibration level: Max temp.: 55 deg, Min temp.: -20 deg EN60950-1:2006 NEC 500 for Class1 Division I IECEX ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-08 Schedule F Test method D999 | Vibration | 2.4 GRMS Random Vibration |
| Safety EN60950-1:2006 NEC 500 for Class1 Division I IECEX ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-08 Schedule F Test method D999 | Water and dust protection | IP66 |
| NEC 500 for Class1 Division I IECEX ATEX Ex d II 2G T6 Lightening protection On power and Ethernet lines Environmental Conditions when Packed in Carrying Case Free fall (drop) test ASTM-D 4169-08 Schedule A Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | HALT - High Accelerated Life Test | Vibration level: Max temp.: 55 deg, Min temp.: -20 deg |
| Safety (Ex) (Ex) (Ex) (Ex) (Ex) (Ex) (Ex) (Ex) | Safety | EN60950-1:2006 |
| Environmental Conditions when Packed in Carrying Case Free fall (drop) test Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | Safety (Ex) (E (%) | IECEx |
| Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | Lightening protection | |
| Free fall (drop) test ASTM-D 4169-06 Schedule A Loose cargo vibration test ASTM-D 4169-08 Schedule F Test method D999 | Environmental Conditions when Packed in Ca | arrying Case |
| • | | |
| • | Loose cargo vibration test | ASTM-D 4169-08 Schedule F Test method D999 |
| Vibration ASTM-D 4169-08 Schedule F Test method D999 | Vibration | ASTM-D 4169-08 Schedule F Test method D999 |
| Gas Leak Detection Performance | Gas Leak Detection Performance | |
| Enhanced and normal thermal modes and PIP with the color image Automatic detection of a gas leak allowing video streaming on a screen display of the | | Automatic detection of a gas leak allowing video streaming on a screen display of the colorized leak in the control room for decision making, or dry contact for designated control or shut-down command. 24/7 continuous operation monitoring and alarm |

