

SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY

F101-1785-BD

Explosion Camera Proof Network Camera



Installation Manual $\langle E x \rangle$

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Release Date: 07/01/2019

Document Name F1xx SERIES INSTALLATION MANUAL

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Revision Record		
Rev.	Description	Date
1	Initial Release	October 1, 2018



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DESCRIPTION



The F1xx Series includes a full range of powder-coated Aluminum camera stations specifically designed for Hazardous Area Applications. Spectrum's F1xx Series utilizes the most robust and advanced camera technologies available.





US: Class I Division 1 Groups BCD T6 Ta= -40° C to $+60^{\circ}$ C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -40° C to $+60^{\circ}$ C, Type 4X, IP66 Canada: Class I Division 1 Groups BCD T6 Ta= -50° C to $+60^{\circ}$ C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -50° C to $+60^{\circ}$ C, Type 4X, IP66 Class I, Zone 1, AEx/Ex db IIB+H2 T5 Gb Ta = -50° C to $+60^{\circ}$ C, Type 4X, IP66 Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -50° C to $+60^{\circ}$ C, Type 4X, IP66



II 2 G Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66 CERT NO. FM18ATEX0073X & IECEx FMG 18.0029X



WARNING:DO NOT OPEN WHEN ENERGIZED OR WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT. INSTALL SEAL WITHIN 18 inches. For Zones, install seal at entry. WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTION. USE 80°C OR HIGHER RATED CONDUCTORS.

AVERTISSEMENT: NE PAS OUVRIR LORSQU ENERGISE OU QUAND UNE ATMOSPHERE EXPLOSIVE PEUT ETRE PRESENTE. Les joints de fermeture sont obligatoires dans une distance de 18 pouces. Pour les zones, installez un sceau à l'entrée. AVERTISSEMENT - RISQUE DE CHARGE ÉLECTROSTATIQUE POTENTIEL - VOIR LES INSTRUCTIONS. UTILISEZ DES CONDUCTEURS COTÉS DE 80 ° C OU PLUS.



STANDARDS & CERTIFICATIONS



STANDARDS-

The equipment is manufactured in accordance with the IECEX scheme, the ATEX Directive 2014/34/EU and with the following standards : IEC 60079-0:2011 IEC 60079-1:2014 IEC 60079-31:2013 IEC 60529:2013 EN 60079-0:2012 + A11:2013 EN 60079-1:2014 EN 60079-31:2014 EN 60529:1991 + A1:2000 + A2:2013 ANSI/ISA 60079-0:2013 ANSI/UL 60079-1:2015 ANSI/ISA 60079-31:2015 ANSI/IEC 60529:2004 CAN/CSA-C22.2 No. 60079-0:2015 CAN/CSA-C22.2 No. 60079-1:2016 CAN/CSA-C22.2 No. 60079-31:2015 CAN/CSA-C22.2 No. 60529:2016

Specific Conditions of Use:

The flameproof joints of the equipment are not intended to be repaired. Consult the manufacturer if dimensional information on the flameproof joints is necessary.

-Follow the manufacturer's instructions to reduce the potential of an electrostatic charging hazard on the surface of the equipment in Group II and III environments.

NOTE: Use a clean cloth dampened with pure water for cleaning.

CERTIFICATIONS-

CERT NO. FM18US0262X & FM18CA0126X US: Class I Division 1 Groups BCD T6 Ta= -40°C to +60°C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -40°C to +60°C, Type 4X, IP66 Canada: Class I Division 1 Groups BCD T6 Ta= -50°C to +60°C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -50°C to +60°C, Type 4X, IP66 Class I, Zone 1, AEx/Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, Type 4X, IP66 Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -50°C to +60°C, Type 4X, IP66 CERT NO. FM18ATEX0073X & IECEx FMG 18.0029X II 2 G Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66

DOCUMENT SYMBOLS



The following symbols are used throughout this manual to alert users to potential hazards or important information. *Failure to heed the warnings and cautions listed herein can lead to injury and equipment damage.*

Symbol	Label	Description
	WARNING:	Consists of conditions, practices, or procedures that must be observed to prevent personal injury and/or equipment damage.
4	CAUTION:	Risk of electric shock or high temperature parts may result in injury if proper precautions are not taken.
	NOTE:	Emphasizes important or essential information.

Locating Information:

NOTE: In the interest of completeness, manuals and drawings included with the system may provide information pertaining to options not included with your equipment. Information in application notes supersedes general information in these documents. Information can be located in this manual using any of the following aids.



General Manual:

This manual is intended to be used <u>in conjunction</u> with installed equipment manual from internal equipment manufacturer.

Note: In the event of a conflict between the requirements of this general installation manual and the internal equipment manual, the safety and installation procedures described in this manual shall take precedence.

Safety Considerations:

This information must be read and understood by all persons installing, using, or maintaining this equipment. This manual is designed to aid personnel in the correct and safe installation, operation, and maintenance of the systems described. Personnel must consider all actions and procedures for potential hazards or conditions that may not have been anticipated in the written procedures. If a procedure cannot be performed safely, it must not be performed until appropriate actions can be taken to ensure the safety of equipment and personnel. The procedures in this manual are not designed to replace or supersede required or common sense safety practices. All safety warnings listed in any documents applicable to equipment and perts used in or with the system described in this manual must be read and heeded before commencing work on any part of the system.



NOTE: Refer to all ATEX, CSA, IECEx, NEC, NFPA and FM certificates for any Special Conditions of Use. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule of the certificate.



NOTE: Review all material and safety information in this manual and install in accordance with this document and all other applicable ATEX, CSA, IECEx, NEC, NFPA70 Installation Methods and FM and National standards.



Warning- Failure to follow appropriate safety procedures or appropriate use of the equipment described in this manual can lead to injury of personnel or equipment damage.



WARNING – EXPLOSION HAZARD – Do not open equipment unless power has been removed or the area is known to be non-hazardous.

General Safety and Operating Information:



General safety and operating information applicable to electrical equipment installed within hazardous locations. This information must be understood by all persons installing, using, or maintaining the electrical equipment. This information is designed to aid personnel in safe installation, operation, and maintenance of the "F" Series equipment. It is not designed to replace or limit appropriate safety measures applicable to work performed by personnel. Any additional safety and operating measures that are required must be determined by and followed by personnel performing work on the electrical equipment.



WARNING: Deviation from the specified instructions or procedure steps can result in injury to personnel, equipment malfunction or equipment damage.



WARNING: Return unit to factory for any repairs or replacement of parts, customer not permitted to repair. This will void all warranties and hazardous area certification(s) if non-authorized repair occurs.

General Precautions:

Slip resistant gloves and protective eyewear (glasses with side shields or goggles as appropriate) should be worn when installing and servicing any part of electrical equipment. Hot components should be allowed to cool before servicing if possible. Other appropriate equipment or clothing must be used as required by the type of work performed. All applicable regulations and procedures must be followed for the work performed. Before beginning any work on the equipment, carefully consider all the potential hazards and ensure that appropriate measures are taken to prevent injury to personnel or equipment damage.



CAUTION: Electrical equipment components may be hot even when power is not applied. Take appropriate precautions to prevent injury from contact with hot items.



CAUTION: Failure to allow adequate cooling of electrical equipment components with hot surfaces before opening the enclosure can lead to injury of personnel or equipment damage.

General Safety and Operating Information:



Electrical Power:

The "F1XX" Series IP cameras operate from a variety of power options including IEEE compliant POE devices.

 The power supply used with this product shall fulfill the requirements for Safety Extra Low Voltage (SELV) and Limited Power Source (LPS) according to IEC/EN/UL 62368-1 or IEC/EN/UL 60950-1 or Listed Class II Power Source Equipment. The product shall be grounded either through a shielded network cable (STP) or other appropriate method.

Camera Location:

The "F1XX" Series IP camera must be installed in a suitable location away from impacts, heavy vibration and extreme heat. The "F1XX" Series camera must not be installed in an area classification for which it is not rated. The "F1XX" Series camera must be attached securely and appropriately to a wall or supporting structure.



CAUTION: The electrical cover should never be removed unless power is removed (for at least 5 minutes) from the unit or the area is known not to contain explosive materials.

- The product shall be installed by a trained professional.
- The product shall be used in compliance with local laws and regulations.
- Store the product in a dry and ventilated environment.
- Avoid exposing the product to shocks or heavy pressure.
- Do not install the product on unstable brackets, surfaces or walls.
- Use only applicable tools when installing the product. Using excessive force with power tools could cause damage to the product.
- Do not use chemicals, caustic agents, or aerosol cleaners.
- Use a clean cloth dampened with pure water for cleaning.
- Use only accessories that comply with the technical specification of the product. These can be provided by Spectrum or a third party.

General Safety and Operating Information:



Installation:

The installation must be realized in accordance with IEC/EN 60079-14 and/or in accordance with the national requirements. This equipment must be installed and used only by qualified personnel, having knowledge concerning electrical equipment for use in potentially explosive areas containing gas and/or dust. Qualified personnel must have knowledge regarding the types of explosion protection. This equipment is intended to be used in zone 1, 2, 21 and 22 for groups IIB+H2 and IIIC with temperature class T5 or T85°C, it is necessary to verify if this equipment is in accordance with the atmosphere where it is installed.

Connections:

Electric parameters power control unit Maximum supply voltage:

POE+ IEEE 802.3at/af, and AC/DC 12-30 Volts 26W

The terminals are suitable to receive: Solid wires Stranded wires.- *See wiring Diagram Page

Cable Glands:

The cable entry must be made in order not to alter the specific properties of terminal housing compartment. The connection to the external circuits must be realized by cable glands or pipe fittings covered by a separate certificate(s). If a cable gland is not used, or an entry is open, the entry must be closed by a stopping plug covered by a separate certificate. The diameter of the cable gland is $\frac{3}{4}$ inch NPT.

This equipment can be used with different voltage and power, the nominal parameters are specified in the manual.

Cable: cable must be tested and certified for temperatures of 110°C or higher.

Fiber Cable: Use a suitably certified optical fiber cable and internal connections shall comply with requirements of IEC/EN 60079-15

Equipment Modifications:

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

SPECIFICATIONS



CERTIFICATIONS of Model- *F101-Q1785-BD

FM18US0262X & FM18CA0126X US: Class I Division 1 Groups BCD T6 Ta= -40°C to +60°C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -40°C to +60°C, Type 4X, IP66 Canada: Class I Division 1 Groups BCD T6 Ta= -50°C to +60°C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -50°C to +60°C, Type 4X, IP66 Class I, Zone 1, AEx/Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, Type 4X, IP66 Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -50°C to +60°C, Type 4X, IP66 II 2 G Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, Type 4X, IP66 II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66 CERT NO. FM18ATEX0073X & IECEx FMG 18.0029X

ELECTRICAL REQUIREMENTS of Model- *F101-Q1785-BD
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POWER INPUT/CONSUMPTION	Camera: IEEE 802.3af/802.3at
VOLTAGE	<u>Camera:</u> IEEE 802.3af/802.3at 57Vdc <u>Heating:</u> AC/DC 12-30 Volts 25W

Environmental Conditions (Equipment must be powered)

OPERATIONONAL CONDITIONS

USE

For Indoor and Outdoor Use



F1XX Series Casing Material Specifications		
ALUMINUM	15lbs	

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NOTE: Spectrum Camera Solutions, LLC is NOT responsible for any misuse or improper installation of product, assumes no liability for special or consequential damages caused by use or misuse or improper installation of its products sold and assumes no liability for injury from use or misuse or improper installation of its products or attached products.

Power Source Specification For F1XX

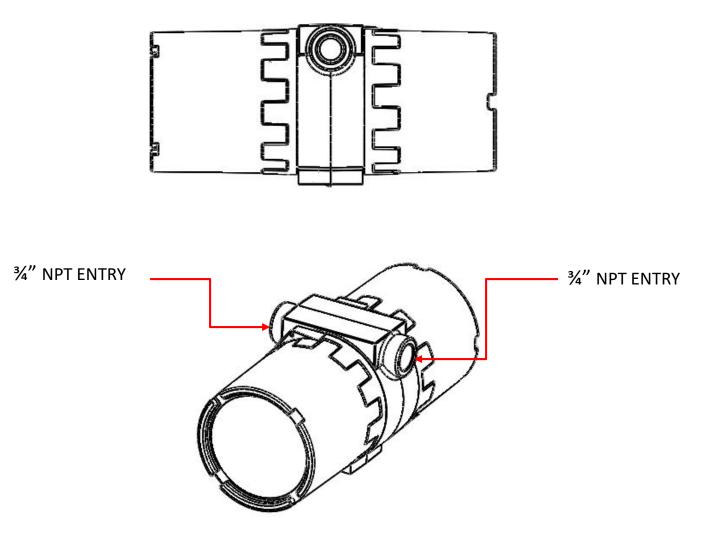
The power supply used with this product shall have a rated output voltage within voltage range of 8-28 V DC. The power supply shall also fulfill one of the following requirements: • Safety Extra Low Voltage (SELV) according to clause 2.2 of IEC/EN/UL 60950-1 and Limited Power Source (LPS) according to clause 2.5 of IEC/EN/UL 60950-1 or CEC/NEC Class 2 source of supply as defined in the Canadian Electrical Code, CSA C22.1 and National Electrical Code, ANSI/NFPA 70 • Class 1 electrical energy source (ES1) and Class 2 power source (PS2) rated output power limited to ≤100 W according to IEC/EN/UL 62368-1 Axis recommends the use of Axis Mains Adaptor PS-K T-C. When used with Power over Ethernet (PoE) the Power sourcing equipment (PSE) shall comply with IEEE 802.3af/802.3at and Limited Power Source (LPS) according to clause 2.5 of IEC/EN/UL 60950-1 or annex Q of IEC/EN/UL 62368-1.

Grounding Specification For F1XX
For U.S zones use the internal grounding connection when necessary. The external
grounding connection may be used as supplemental ground connection

WIRING ENTRIES



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Conduit Entries are $\frac{34}{4}$ inch NPT Use appropriate adapter to keep ingress protection

CAUTION: Ensure the Ethernet cable is disconnected from power source prior to wiring to the terminal block





Ensure that power is off before attempting to connect and wire the camera

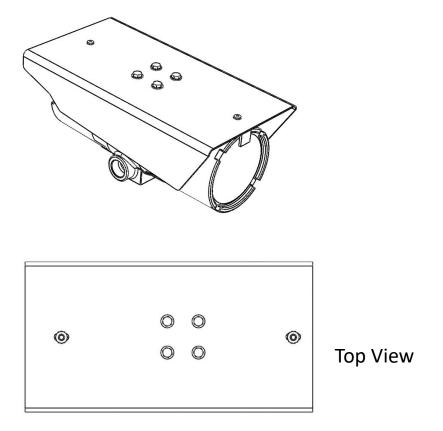


Figure 1. How camera comes in the box

1. Make sure threads on camera are free of dirt and debris. Carefully remove camera from box.



CAUTION: Ensure the Ethernet cable is disconnected from power source prior to wiring to the terminal block



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2. Remove $\frac{1}{4}$ -20 hex screws and lift the sunshield from the camera housing.

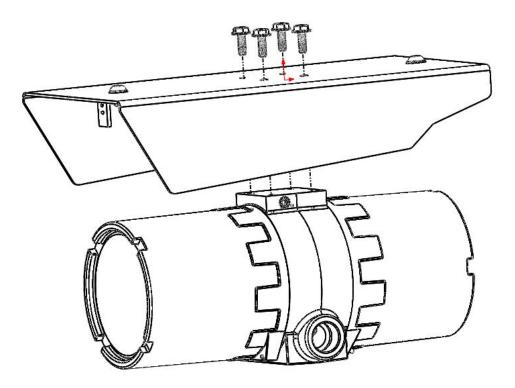


Figure 2. Sun shield removal.



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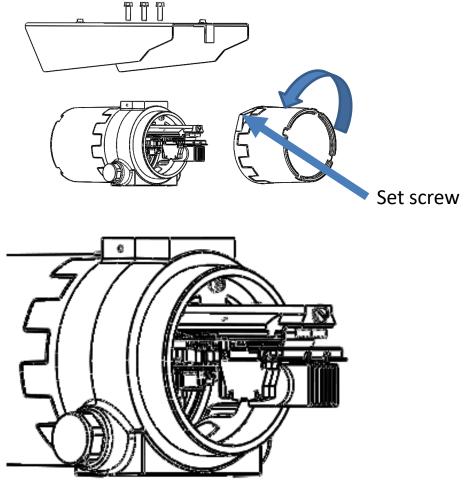


Figure 3. End cap removed. **Figure 4.** Figure 3 zoomed in.

3. Unscrew set screw first with hex key then turn end cap counter clockwise to remove end cap.



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4. Connect positive 12-30 volt connection into back terminal block (A) and secure screw. Do the same for negative 12 volt connection into the gray terminal block (B).

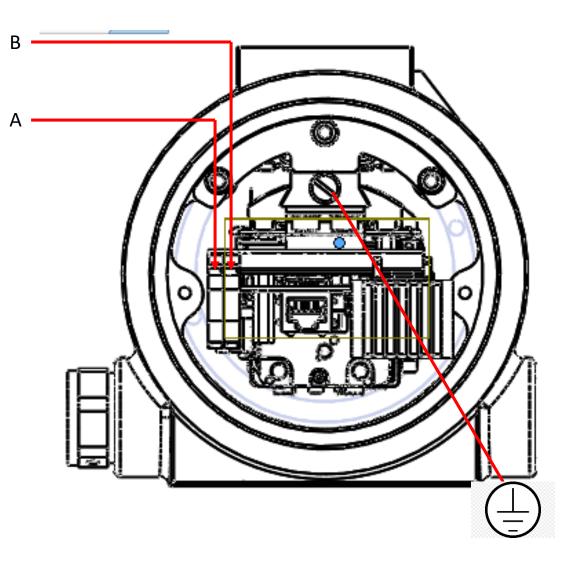


Figure 5. Terminal blocks and thermostat.

Internal ground screw 5850-6 SLBHUC 10-24x ¼ ZS ZGR



5. Crimp RJ-45 using T568B color code then plug Cat6 POE into the RJ-45 Port located on the back of the Camera.

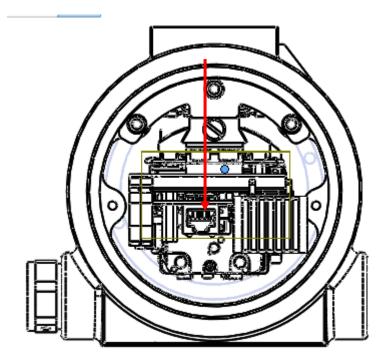


Figure 6. Zoom in of figure 5.



- 9. Ensure threads on F1XX end cap and F1XX main housing are free of dirt and debris.
- 10. Ensure gasket is free of dirt and debris
- 11. Reinstall F1XX end cap by hand to tighten by turning clockwise until hand tight and gasket is seated

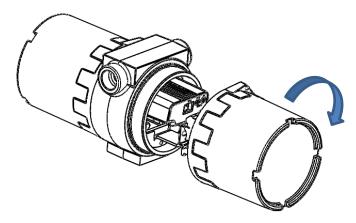


Figure 7. Installing F1XX end cap

12. Tighten both set screws on the end cap and lens cap ends of the housing.

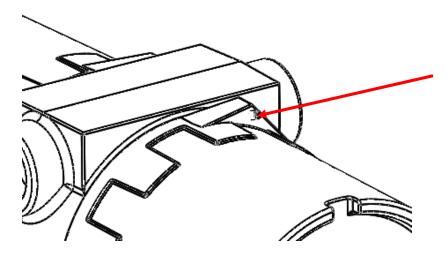


Figure 8. Set Screw on End Cap (Identical on lens cap)



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WALL MOUNT INSTALLATION

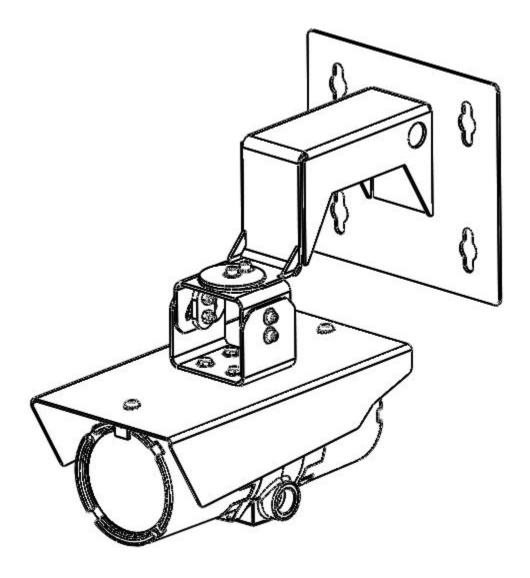


Figure 9. Fully assembled wall mount



1. Attach lower knee bracket with the $\frac{1}{4}$ -20 hex screws that come with the camera housing. If bracket comes fully assembly, attach using the same method.

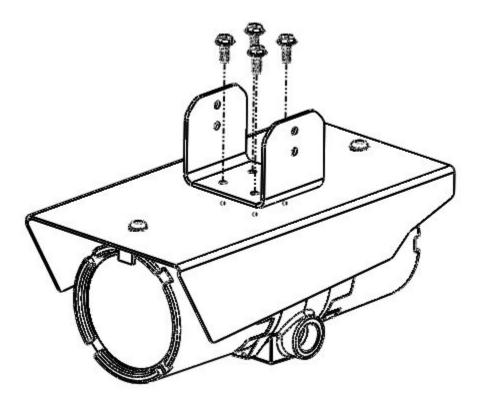


Figure 10. Upper knee bracket install.



2. Attach upper knee bracket and 2 of the compression plates with the $\frac{1}{4}$ -20 socket head cap screws. The 2 compression plates will be on the inside of the upper knee bracket.

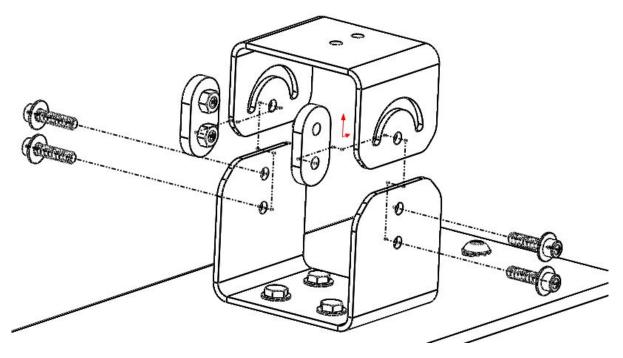


Figure 11. Lower knee bracket install.



3. Attach the third compression plate, secondary compression plate, and main support arm with 1/4-20 socket head cap screws.

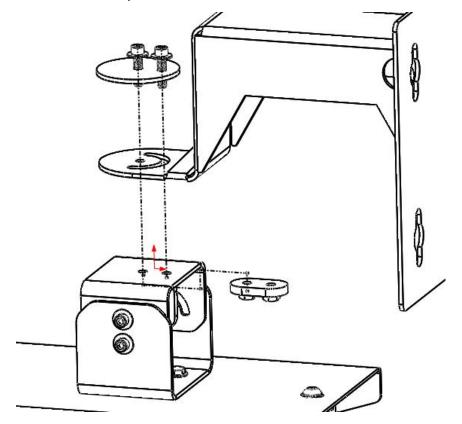


Figure 12. Main support arm bracket install.



13. Remove Protective film after installation. If protective film is not removed in timely manor damage to lens is likely to occur with UV exposure

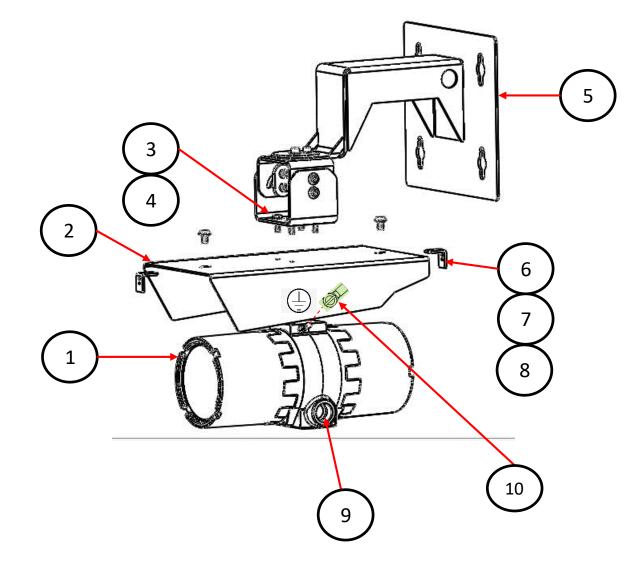
14. Apply power. For internal equipment startup procedures, setting changes, and troubleshooting guides reference the camera manufacturer's manual included with the "F1XX" Series Cameras. If the included copy is lost please contact support@spectrumcamera.com for a PDF copy.



HARDWARE BILL OF MATERIALS

SPECTRUM CAMERASOLUTIONS

- 1- (QTY 1) F1XX- CAMERA ASSEMBLY
- 2- (QTY 1) SUN SHIELD
- 3- (1 SET) .250-20 HEX SCREW
- 4- (1 SET) SPLIT LOCK WASHER
- 5- F1XX-WM (WALL MNT. NOT INCLUDED)
- 6- (QTY 2) SUN SHIELD STOP
- 7. (1 SET) .3125-18 PAN HEAD SCREW
- 8. (1 SET) TOOTH LOCK WASHER
- 9. (QTY 1) CMP 781DT25 BREATHER DRAIN* OPTIONAL
- 10. (QTY 1) 18813-1 CENELEC EARTH ASSY STAINLESS



DISMANTLING & MAINTENANCE



Dismantling:

All repairs of explosion-proof equipment must be made according the specified criteria of IEC/EN 60079-19 rule by qualified personnel, having knowledge concerning electrical equipment for potentially explosive areas containing gas and/or dust. Qualified personnel must have knowledge regarding the types of explosion protection.

Maintenance:

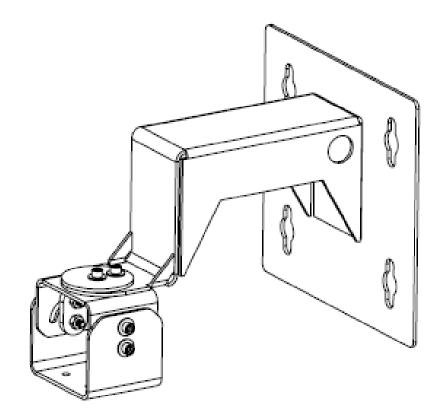
The maintenance must be realized in accordance with IEC/EN 60079-17 and/or in accordance with the national requirements. Contact Spectrum Camera for training program to properly open and close the main camera housing.

<u>Cleaning lens-</u>Washdown lens with water first to avoid partials scratching the surface. Clean lens with damp microfiber cloth with mild dish soap and water. Lastly, apply coating of Repel (by Unelko corporation) surface cleaner. Never use harsh chemicals or abrasive towels.

<u>Replacing the battery-</u> The Q1785 product uses a Panasonic BR2330A lithium battery. The lithium primary battery composed of cathode from LITHIUM POLY-CARBONMONOFLUORIDE as the power supply for its internal real-time clock (RTC). Under normal conditions this battery will last for a minimum of five years. Low battery power affects the operation of the RTC, causing it to reset at every power-up. When the battery needs replacing, a log message will appear in the product's server report. For more information about the server report, see the product's setup pages or contact Spectrum support. The battery is not field replaceable,contact Spectrum support at <u>support@spectrumcamera.com</u> for assistance



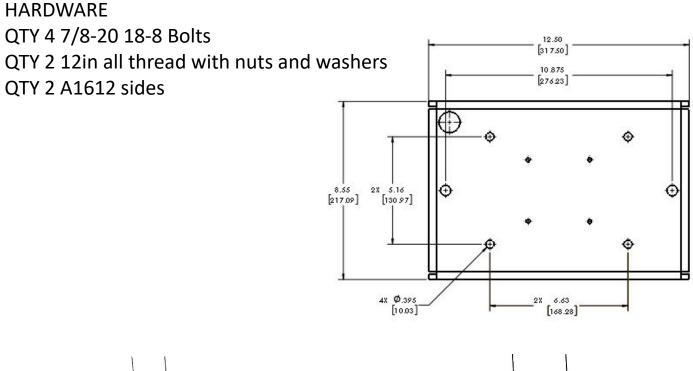
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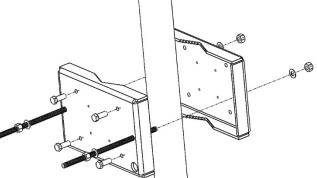


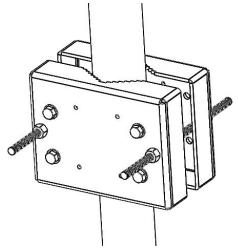
SD-PMA POLE MOUNT ADAPTER



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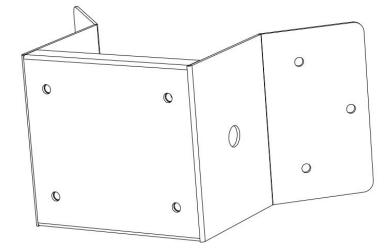


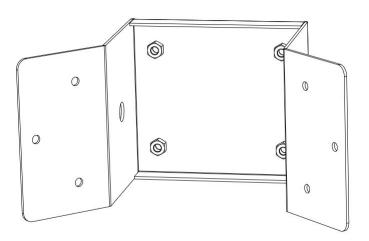
SD-CM CORNER MOUNT



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HARDWARE-QTY 4 7/8-20 18-8 Bolts

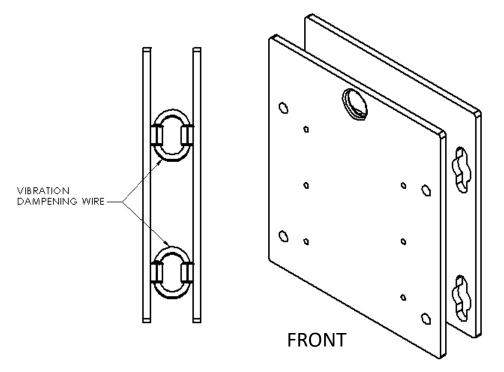


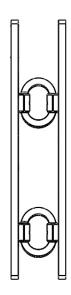


SD-VM VIBRATION MOUNT



HARDWARE-QTY 4 7/8-20 18-8 Bolts

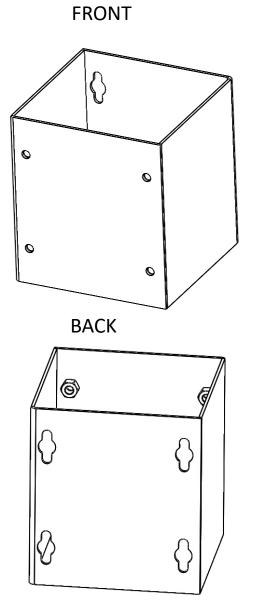




SD-SO STANDOFF MOUNT



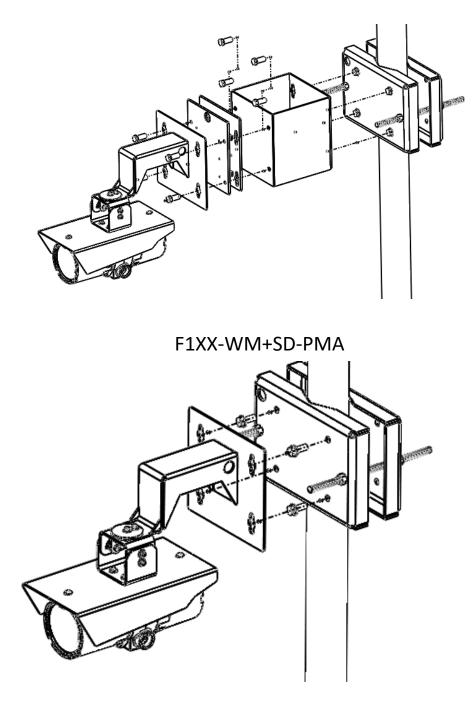
HARDWARE-QTY 4 7/8-20 18-8 Bolts





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F1XX-WM+SD-VM+SD-SO+ SD-PMA



EU Declaration of Conformity Spectrum Camera Solutions, LLC

Spectrum Camera Solutions declares that under our sole responsibility that the product (s) listed below conform to the relevant provisions of 2014/34/EU of November 08, 2018

Notified Body	FM Approvals Ltd. 1 Windsor Dials,	
	Windsor, Berkshire, UK. SL4 1RS	
Product(s)	F1xx Network Ethernet Cameras	
Model numbers	F1(XX)-(CCCCC)-BD	
	F1xx Series Network Ethernet Camera.	
	XX= 01-99 IEC/EN/UL 60950-1, IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 Internal Equipment Manufacturer Code**	
	C= Internal Equipment Part Number from Manufacturer***	
	BD= Optional Breather drain model****	
	*Internal components and F Series must be approved by Spectrum	
	**Internal Equipment Manufacturer Code below	
	***Must be approved and verified by Spectrum	
(Ex	****Models supplied with Breather Drains will have IP66 ingress protection level	
Markings	II 2 G Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66	
Ratings	The F1xx Series includes a full range of powder-coated Aluminum camera stations specifically design Hazardous Area Applications. Spectrum's F1xx Series utilizes the most robust and advanced camera technologies available. The power supply used with this product shall have a rated output voltage woltage range of 8-28 V DC. The power supply shall also fulfill one of the following requirements: • S Extra Low Voltage (SELV) according to clause 2.2 of IEC/EN/UL 60950-1 and Limited Power Source (L according to clause 2.5 of IEC/EN/UL 60950-1 or CEC/NEC Class 2 source of supply as defined in the C Electrical Code, CSA C22.1 and National Electrical Code, ANSI/NFPA 70 • Class 1 electrical energy sou (ES1) and Class 2 power source (PS2) rated output power limited to ≤100 W according to IEC/EN/UL Axis recommends the use of Axis Mains Adaptor PS-K T-C. When used with Power over Ethernet (Po Power sourcing equipment (PSE) shall comply with IEEE 802.3af/802.3at and Limited Power Source (according to clause 2.5 of IEC/EN/UL 60950-1 or annex Q of IEC/EN/UL 62368-1.	vithin Safety PS) Canadian urce 62368-1)E) the
Compliance with the Essential Health and Safety Requirements has been assessed by reference to the following Standards	EN 60079-0:2012 + A11:2013, EN 60079-1:2014, EN 60079-31:2014, EN 60529:1991 + A1:2000 + A2:2013	
Factory/Manufacturing Location	8935 Almeda Genoa Rd. Building B Houston Texas 77075	
Conformity has been demonstrated with reference to the following documentation:	EU Type Examination Certificate (FM18ATEX0073X-0)	
Quality Assurance Notification Hubert Lee Rice II CEO	FM19ATEXQ0130	
Date: November 01, 2018	114309212018 F101-Q1785-BD INSTALLATION REV-1 36	

Attestation of Conformity Spectrum Camera Solutions, LLC

Spectrum Camera Solutions declares that under our sole responsibility that the product (s) listed below conform to the relevant provisions of 2014/34/EU of November 08, 2018

Notified Body	FM Approvals Ltd. 1 Windsor Dials,	
	Windsor, Berkshire, UK. SL4 1RS	
Product(s)	F1xx Network Ethernet Cameras	
Model numbers	F1(XX)-(CCCCCC)-BD	
	F1xx Series Network Ethernet Camera.	
	XX= 01-99 IEC/EN/UL 60950-1, IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 Internal Equipment Manufacturer Code**	
	C= Internal Equipment Part Number from Manufacturer***	
	BD= Optional Breather drain model****	
	*Internal components and F Series must be approved by Spectrum	
	**Internal Equipment Manufacturer Code below	
	***Must be approved and verified by Spectrum	
{ξx	****Models supplied with Breather Drains will have IP66 ingress protection level	
Markings	II 2 G Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66	
Ratings	The F1xx Series includes a full range of powder-coated Aluminum camera stations specifically designed fo Hazardous Area Applications. Spectrum's F1xx Series utilizes the most robust and advanced camera technologies available. The power supply used with this product shall have a rated output voltage within voltage range of 8-28 V DC. The power supply shall also fulfill one of the following requirements: • Safety Extra Low Voltage (SELV) according to clause 2.2 of IEC/EN/UL 60950-1 and Limited Power Source (LPS) according to clause 2.5 of IEC/EN/UL 60950-1 or CEC/NEC Class 2 source of supply as defined in the Canad Electrical Code, CSA C22.1 and National Electrical Code, ANSI/NFPA 70 • Class 1 electrical energy source (ES1) and Class 2 power source (PS2) rated output power limited to ≤100 W according to IEC/EN/UL 62368 Axis recommends the use of Axis Mains Adaptor PS-K T-C. When used with Power over Ethernet (PoE) the Power sourcing equipment (PSE) shall comply with IEEE 802.3af/802.3at and Limited Power Source (LPS) according to clause 2.5 of IEC/EN/UL 60950-1 or annex Q of IEC/EN/UL 62368-1.	ian 8-1
Compliance with the Essential Health and Safety Requirements has been assessed by reference to the following Standards	EN 60079-0:2012 + A11:2013, EN 60079-1:2014, EN 60079-31:2014, EN 60529:1991 + A1:2000 + A2:2013	
Factory/Manufacturing Location	8935 Almeda Genoa Rd. Building B Houston Texas 77075	
Conformity has been demonstrated with reference to the following documentation:	EU Type Examination Certificate (FM18ATEX0073X- 0)	
Quality Assurance Notification Hubert Lee Rice II CEO	FM19ATEXQ0130	
Date: November 01, 2018	114309212018 F101-Q1785-BD INSTALLATION REV-1 37	