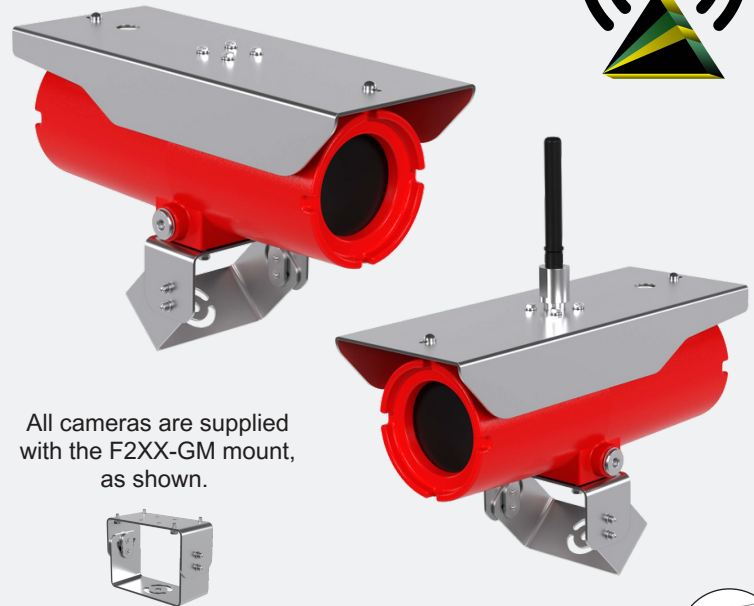


Spectrum F212-BBBBBB-CC-DD-EE-FF

Explosion-Proof 2MP & 4MP Fixed Cameras

Key Features

- Excellent Image Quality 2MP & 4MP
- HDR X - High Dynamic Range
- IVA Pro brings highly reliable deep-learning based detection of persons and vehicles
- Electronic image stabilization (EIS)
- POE and Redundant DC Power
- 4G and 5G Wireless options available
- SPF Media Converter option available
- Operating Temperature
 - See table on Page 2
- Front Glass Protective Film (F2XX-TO) included
- Reliable Securing Kit (SF-RSK) included
- Made in USA
- NDAA-Compliant
- cFmus, Class I/II/III, Division 1, Groups BCDEFG
II 2 G Ex db IIB+H2 Gb
II 2 D Ex tb IIIC Db, IECEx & ATEX approved
- 5 Year Warranty with Registration



All cameras are supplied with the F2XX-GM mount, as shown.



Bosch Camera Inside



BOSCH



Part No.	Description	MP	F Number	Lens	Image Sensor
F212-NBI7802AX(10)-01-01	PoE - IEEE 802.3bt - 90W	2.0	1.35 - 1.97	4.4 - 10	1 / 1.8
F212-NBI7802AX(10)-01-02	Media Converter (SFP) - 120 / 240 VAC - 50 / 60 Hz	2.0	1.35 - 1.97	4.4 - 10	1 / 1.8
F212-NBI7802AX(10)-02-03-03-XR60	Wireless - Sierra 5G - 120 / 240 VAC - 50 / 60 Hz	2.0	1.35 - 1.97	4.4 - 10	1 / 1.8
F212-NBI7802AX(10)-02-03-02-RUT241	Wireless - Teltonika 4G - 120 / 240 VAC - 50 / 60 Hz	2.0	1.35 - 1.97	4.4 - 10	1 / 1.8

Part No.	Description	MP	F Number	Lens	Image Sensor
F212-NBI7802AXT(47)-01-01	PoE - IEEE 802.3bt - 90W	2.0	1.35 - 1.55	10.5 - 47	1 / 1.8
F212-NBI7802AXT(47)-01-02	Media Converter (SFP) - 120 / 240 VAC - 50 / 60 Hz	2.0	1.35 - 1.55	10.5 - 47	1 / 1.8
F212-NBI7802AXT(47)-02-03-03-XR60	Wireless - Sierra 5G - 120 / 240 VAC - 50 / 60 Hz	2.0	1.35 - 1.55	10.5 - 47	1 / 1.8
F212-NBI7802AXT(47)-02-03-02-RUT241	Wireless - Teltonika 4G - 120 / 240 VAC - 50 / 60 Hz	2.0	1.35 - 1.55	10.5 - 47	1 / 1.8

Part No.	Description	MP	F Number	Lens	Image Sensor
F212-NBI7803AX(10)-01-01	PoE - IEEE 802.3bt - 90W	4.0	1.35 - 1.97	4.4 - 10	1 / 1.8
F212-NBI7803AX(10)-01-02	Media Converter (SFP) - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.97	4.4 - 10	1 / 1.8
F212-NBI7803AX(10)-02-03-03-XR60	Wireless - Sierra 5G - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.97	4.4 - 10	1 / 1.8
F212-NBI7803AX(10)-02-03-02-RUT241	Wireless - Teltonika 4G - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.97	4.4 - 10	1 / 1.8

Part No.	Description	MP	F Number	Lens	Image Sensor
F212-NBI7803AXT(47)-01-01	PoE - IEEE 802.3bt - 90W	4.0	1.35 - 1.55	10.5 - 47	1 / 1.8
F212-NBI7803AXT(47)-01-02	Media Converter (SFP) - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.55	10.5 - 47	1 / 1.8
F212-NBI7803AXT(47)-02-03-03-XR60	Wireless - Sierra 5G - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.55	10.5 - 47	1 / 1.8
F212-NBI7803AXT(47)-02-03-02-RUT241	Wireless - Teltonika 4G - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.55	10.5 - 47	1 / 1.8

Part No.	Description	MP	F Number	Lens	Image Sensor
F212-NBI7803SAX(10)-01-01	PoE - IEEE 802.3bt - 90W	4.0	1.35 - 1.97	4.4 - 10	1 / 1.8
F212-NBI7803SAX(10)-01-02	Media Converter (SFP) - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.97	4.4 - 10	1 / 1.8
F212-NBI7803SAX(10)-02-03-03-XR60	Wireless - Sierra 5G - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.97	4.4 - 10	1 / 1.8
F212-NBI7803SAX(10)-02-03-02-RUT241	Wireless - Teltonika 4G - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.97	4.4 - 10	1 / 1.8

Part No.	Description	MP	F Number	Lens	Image Sensor
F212-NBI7803SAXT(47)-01-01	PoE - IEEE 802.3bt - 90W	4.0	1.35 - 1.55	10.5 - 47	1 / 1.8
F212-NBI7803SAXT(47)-01-02	Media Converter (SFP) - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.55	10.5 - 47	1 / 1.8
F212-NBI7803SAXT(47)-02-03-03-XR60	Wireless - Sierra 5G - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.55	10.5 - 47	1 / 1.8
F212-NBI7803SAXT(47)-02-03-02-RUT241	Wireless - Teltonika 4G - 120 / 240 VAC - 50 / 60 Hz	4.0	1.35 - 1.55	10.5 - 47	1 / 1.8

For more technical details please visit <https://spectrumcamera.com>

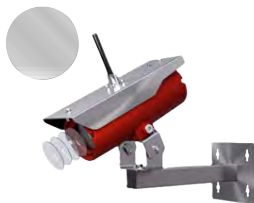
Specifications

General																																									
Casing	Aluminum																																								
Weight	27 - 29 lbs (12.2 - 13.2 kgs)																																								
Dimensions	19.25(L) x 7.41(H) x 6.64(W) in (498 x 188 x 163 mm)																																								
Power	See models shown on previous page																																								
Storage Conditions	-40°C to +60°C (-40°F to +140°F) Humidity 5-95% RH (non-condensing)																																								
Operating Conditions	<table> <tr> <th>Part No.</th><th>Certified Temperature °C (°F)</th></tr> <tr> <td>F212-NBI7802AX(10)-01-01</td><td>-50 to +60°C (-58 to +140°F)</td></tr> <tr> <td>F212-NBI7802AX(10)-01-02</td><td>-50 to +60°C (-58 to +140°F)</td></tr> <tr> <td>F212-NBI7802AX(10)-02-03-03-XR60</td><td>-40 to +60°C (-40 to +140°F)</td></tr> <tr> <td>F212-NBI7802AX(10)-02-03-02-RUT241</td><td>-40 to +60°C (-40 to +140°F)</td></tr> </table> <table> <tr> <th>Part No.</th><th>Certified Temperature °C (°F)</th></tr> <tr> <td>F212-NBI7802AXT(47)-01-01</td><td>-50 to +60°C (-58 to +140°F)</td></tr> <tr> <td>F212-NBI7802AXT(47)-01-02</td><td>-50 to +60°C (-58 to +140°F)</td></tr> <tr> <td>F212-NBI7802AXT(47)-02-03-03-XR60</td><td>-40 to +60°C (-40 to +140°F)</td></tr> <tr> <td>F212-NBI7802AXT(47)-02-03-02-RUT241</td><td>-40 to +60°C (-40 to +140°F)</td></tr> </table> <table> <tr> <th>Part No.</th><th>Certified Temperature °C (°F)</th></tr> <tr> <td>F212-NBI7803AX(10)-01-01</td><td>-50 to +60°C (-58 to +140°F)</td></tr> <tr> <td>F212-NBI7803AX(10)-01-02</td><td>-50 to +60°C (-58 to +140°F)</td></tr> <tr> <td>F212-NBI7803AX(10)-02-03-03-XR60</td><td>-40 to +60°C (-40 to +140°F)</td></tr> <tr> <td>F212-NBI7803AX(10)-02-03-02-RUT241</td><td>-40 to +60°C (-40 to +140°F)</td></tr> </table> <table> <tr> <th>Part No.</th><th>Certified Temperature °C (°F)</th></tr> <tr> <td>F212-NBI7803SAX(10)-01-01</td><td>-50 to +60°C (-58 to +140°F)</td></tr> <tr> <td>F212-NBI7803SAX(10)-01-02</td><td>-50 to +60°C (-58 to +140°F)</td></tr> <tr> <td>F212-NBI7803SAX(10)-02-03-03-XR60</td><td>-40 to +60°C (-40 to +140°F)</td></tr> <tr> <td>F212-NBI7803SAX(10)-02-03-02-RUT241</td><td>-40 to +60°C (-40 to +140°F)</td></tr> </table>	Part No.	Certified Temperature °C (°F)	F212-NBI7802AX(10)-01-01	-50 to +60°C (-58 to +140°F)	F212-NBI7802AX(10)-01-02	-50 to +60°C (-58 to +140°F)	F212-NBI7802AX(10)-02-03-03-XR60	-40 to +60°C (-40 to +140°F)	F212-NBI7802AX(10)-02-03-02-RUT241	-40 to +60°C (-40 to +140°F)	Part No.	Certified Temperature °C (°F)	F212-NBI7802AXT(47)-01-01	-50 to +60°C (-58 to +140°F)	F212-NBI7802AXT(47)-01-02	-50 to +60°C (-58 to +140°F)	F212-NBI7802AXT(47)-02-03-03-XR60	-40 to +60°C (-40 to +140°F)	F212-NBI7802AXT(47)-02-03-02-RUT241	-40 to +60°C (-40 to +140°F)	Part No.	Certified Temperature °C (°F)	F212-NBI7803AX(10)-01-01	-50 to +60°C (-58 to +140°F)	F212-NBI7803AX(10)-01-02	-50 to +60°C (-58 to +140°F)	F212-NBI7803AX(10)-02-03-03-XR60	-40 to +60°C (-40 to +140°F)	F212-NBI7803AX(10)-02-03-02-RUT241	-40 to +60°C (-40 to +140°F)	Part No.	Certified Temperature °C (°F)	F212-NBI7803SAX(10)-01-01	-50 to +60°C (-58 to +140°F)	F212-NBI7803SAX(10)-01-02	-50 to +60°C (-58 to +140°F)	F212-NBI7803SAX(10)-02-03-03-XR60	-40 to +60°C (-40 to +140°F)	F212-NBI7803SAX(10)-02-03-02-RUT241	-40 to +60°C (-40 to +140°F)
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Approvals	Hazardous Area FM3600, FM3615, ANSI/ISA/EN/IEC/CAN/ CSA-C22.2 60079-0, ANSI/UL/EN/IEC/CAN/ CSA-C22.2 60079-1, ANSI/UL/IEC/CAN/ CSA-C22.2 60079-31 EMC EN 60032 Class A, EN 50121-4, IEC 62236-4, EN 60024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN32 Class A, KC KN35 Safety IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252 Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9) Network NIST SP500-267																																								
Explosion-proof certification	USA: FM24US0209X Canada: FM24CA0056X ATEX: FM24ATEX0026X IECEx: IECEx_FMG_24.0028_000																																								

Accessories for the F200



F2XX-GM
General Mount
(Supplied with camera)



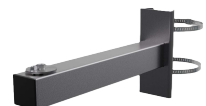
F2XX-TO
Front Glass
Protective Film
(Supplied with camera)



SF-RSK
Reliable
Securing Kit
(Supplied with camera)



F2XX-WM
Fixed Wall
Mount



F2XX-PM
Fixed Pole
Mount

Approvals & Dimensions

Non-Wireless Versions

Wireless Versions



SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY
8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA

SERIAL: _____

ENTRY	DEVICE ENTRY	US/Canada: Class I Division 1 Groups BCD [SEE TABLE 1], Type 4X, IP66
N°	X	Class II/III Division 1 Groups EFG [SEE TABLE 2], Type 4X, IP66
NPS		Class I, Zone 1, AEx/Ex db IIB+H2 Gb [SEE TABLE 1], Type 4X, IP66
		Zone 21, AEx/Ex tb IIIC Db [SEE TABLE 3], Type 4X, IP66
		II 2 G Ex db IIB+H2 Gb [SEE TABLE 1], IP66
		II 2 D Ex tb IIIC Db [SEE TABLE 1], IP66

CERT NO. FM24US0209X & FM24CA0056XIECEx FMG 24.0028X, & FM24ATEX0026X
WARNING: DO NOT OPEN WHEN ENERGIZED OR WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT. Install seal within 18 inches.
WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTION NOTE. FOR BATTERY REPLACEMENT DETAILS-SEE INSTRUCTION
AVERTISSEMENT: NE PAS OUVRIER LORSQU'ENNERGIE OU QUAND UNE ATMOSPHERE EXPLOSIVE PEUT ETRE PRESENTE. Les joints de fermeture sont obligatoires dans une distance de 18 pouces.
AVERTISSEMENT - RISQUE DE CHARGE ELECTROSTATIQUE POTENTIEL - VOIR LES INSTRUCTIONS. REMARQUE: POUR LES DETAILS SUR LE REMPLACEMENT DE LA BATTERIE, VOIR LES INSTRUCTIONS



MADE IN USA



MODEL: F201-P1387-01-01
POE INPUT: IEEE 802.3bt, 90 W;
VAC INPUT: N/A;
VDC INPUT: N/A;

TABLE 1	
T CODE	AMB TEMP RANGE
T1	-40°C TO -10°C
T2	-10°C TO +55°C
T3	+55°C TO +125°C
T4	+125°C TO +155°C
T5	N/A

TABLE 2	
T CODE	AMB TEMP RANGE
T1	-40°C TO -10°C
T2	-10°C TO +55°C
T3	+55°C TO +125°C
T4	+125°C TO +155°C
T5	N/A



SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY
8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA

SERIAL: _____

ENTRY	DEVICE ENTRY	US/Canada: Class I Division 1 Groups BCD [SEE TABLE 1], Type 4X, IP66
N°	X	Class II/III Division 1 Groups EFG [SEE TABLE 2], Type 4X, IP66
NPS		Class I, Zone 1, AEx/Ex db mb [ia Ga] IIB+H2 Gb [SEE TABLE 1], Type 4X, IP66
		Zone 21, AEx/Ex mb tb [ia Da] IIIC Db [SEE TABLE 3], Type 4X, IP66
		II 2 (1) G Ex db mb [ia Ga] IIB+H2 Gb [SEE TABLE 1], IP66
		II 2 (1) D Ex mb tb [ia Da] IIIC Db [SEE TABLE 1], IP66

CERT NO. FM24US0209X & FM24CA0056XIECEx FMG 24.0028X, & FM24ATEX0026X
WARNING: DO NOT OPEN WHEN ENERGIZED OR WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT. Install seal within 18 inches.
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AVERTISSEMENT: NE PAS OUVRIER LORSQU'ENNERGIE OU QUAND UNE ATMOSPHERE EXPLOSIVE PEUT ETRE PRESENTE. Les joints de fermeture sont obligatoires dans une distance de 18 pouces.
AVERTISSEMENT - RISQUE DE CHARGE ELECTROSTATIQUE POTENTIEL - VOIR LES INSTRUCTIONS. REMARQUE: POUR LES DETAILS SUR LE REMPLACEMENT DE LA BATTERIE, VOIR LES INSTRUCTIONS



MADE IN USA

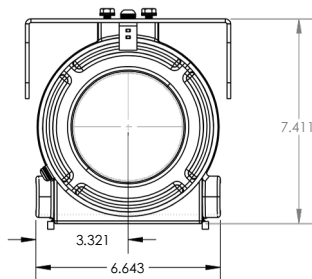
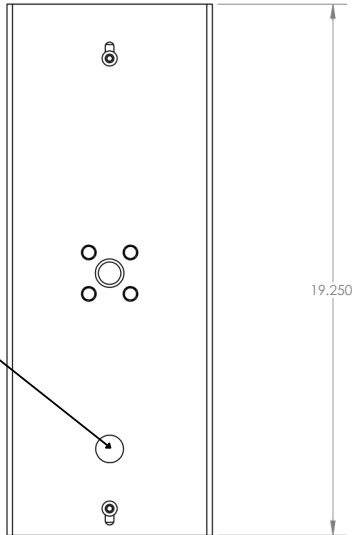


MODEL: F201-P1387-02-03-XR60
POE INPUT: N/A;
VAC INPUT: 100-240 VAC, 90W, 50/60 Hz;
VDC INPUT: N/A;

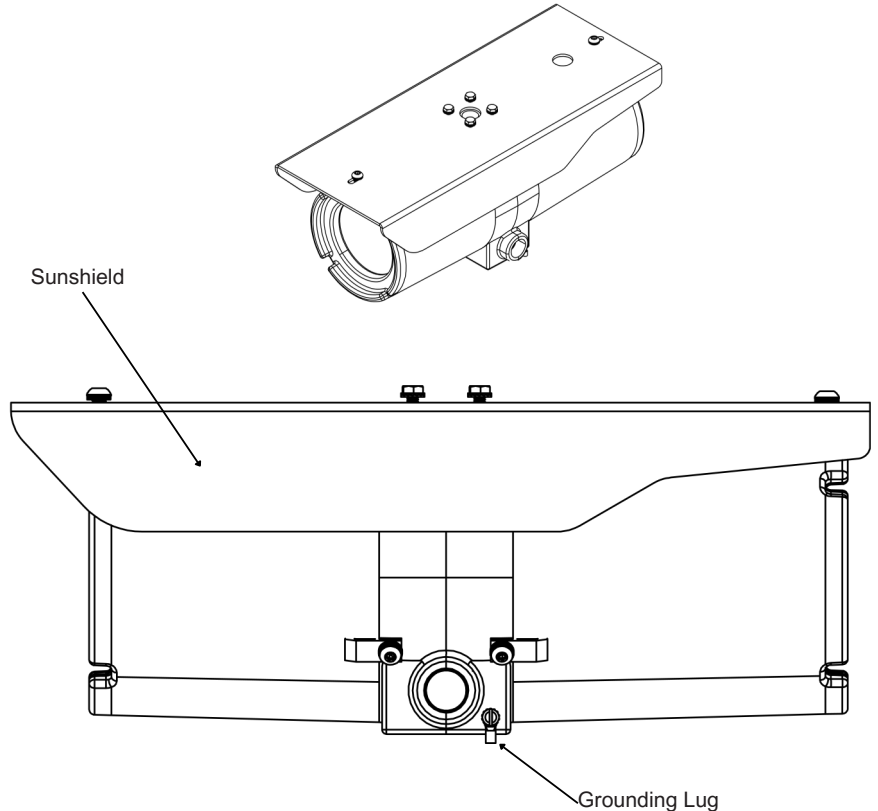
TABLE 1	
T CODE	AMB TEMP RANGE
T1	-40°C TO -10°C
T2	-10°C TO +55°C
T3	+55°C TO +125°C
T4	+125°C TO +155°C
T5	N/A

TABLE 2	
T CODE	AMB TEMP RANGE
T1	-40°C TO -10°C
T2	-10°C TO +55°C
T3	+55°C TO +125°C
T4	+125°C TO +155°C
T5	N/A

Secondary Retention Entry



Sunshield



Grounding Lug

Installation Cable & Gland Kits

Suitable for installation in Class I, II, III, Div 1, ABCDEFG IEC - Zone 1/21 IIC, IIIC environments.

The cable gland is supplied pre-installed onto one end of the 3-core cable.



SCS-PWR-CBL-3C-D1-Z1-25 - (25 ft)
SCS-PWR-CBL-3C-D1-Z1-50 - (50 ft)
SCS-PWR-CBL-3C-D1-Z1-100 - (100 ft)
SCS-PWR-CBL-3C-D1-Z1-200 - (200 ft)
SCS-PWR-CBL-3C-D1-Z1-300 - (300 ft)

For additional sizes please contact us at sales@spectrumcamera.com

For use with the 120 / 240 VAC
F200 models only