



1. EU-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU

3. EU-Type Examination Certificate No: FM24ATEX0026X

4. Equipment or protective system: F2xx Series Network Ethernet Cameras
(Type Reference and Name)

5. Name of Applicant: Spectrum Camera Solutions LLC

6. Address of Applicant 8935 Almeda Genoa Road, Houston, Texas 77075, United States of America

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8. FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

PR463367 dated 17 December 2024

9. Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-11:2012, EN 60079-18:2015+A1:2017, EN 60079-31:2014, EN 60529:1991+A1:2000+A2:2013

10. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11. This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include:



Refer to the Annex.

Certificate issued by:

FM Approvals

20 December 2024

Certification Manager, FM Approvals Europe Ltd.

Date

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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13. Description of Equipment or Protective System:

The F2xx Series Network Ethernet Cameras are designed to provide CCTV monitoring in hazardous environments.

The F2xx Network Ethernet Cameras are housed in a single compartment enclosure with blind and window thread-on covers. The enclosure contains three threaded entries available as 3/4 inch 14-NPT or M25 x 1.5 mm.

The F2xx Series Network Ethernet Cameras can be supplied with a variety of cameras and other devices in accordance with ANSI/IEC 60950 and/or ANSI/IEC 62368. The equipment can be powered by 120-240 Vac (50/60 Hz), 12 Vdc, 24 Vdc or via PoE (Power over Ethernet; IEEE 802.3bt). The total maximum wattage of the equipment in any voltage configuration shall not exceed the tested configuration of 90 W. The equipment contains a heater and thermostat to prevent condensation within the enclosure and fogging of the enclosure window. The equipment can be optionally supplied with a wireless transmitting device in accordance with ANSI/IEC 62368 with an externally mounted antenna. The antenna is sealed/separated from the enclosure via a certified antenna coupler/barrier.

The F2xx Series Network Ethernet Cameras were evaluated for a maximum operating temperature range of -50°C to +90°C. However, the product may be marked for narrower operating temperature ranges depending on the configuration.

The equipment has an ingress protection rating of IP66.

Refer to the Annex for model codes.

14. Specific Conditions of Use:

1. Flameproof joints are not intended to be repaired. Consult the manufacturer if dimensional information on the flameproof joints is necessary.
2. 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.
3. The equipment within the enclosure may be placed in any arrangement provided that an area of at least 20% of each cross-sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided each area has a minimum dimension, in any direction, of 12.5 mm.

15. Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

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SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0026X

16. Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

17. Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

18. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
20 December 2024	Original Issue.

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ANNEX

F2xx Series

Markings:



II 2 G Ex db IIB+H2 Gb
II 2 D Ex tb IIIC Db

Ambient Temperature	Temperature Code - Gas	Temperature Code - Dust
-50°C to +50°C	T6	T85°C
-50°C to +65°C	T5	T100°C
-50°C to +90°C	T4	T125°C

Actual product markings may or may not include all of the markings shown above.

Description of Equipment:

F2a-xx-b-c. Network Ethernet Camera.

a = Sensor: (two digits from 00 to 99).

b = Power: 01, 02, 03 or 04.

c = Network: 01 or 02.

x = Options not affecting the equipment safety.

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SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0026X

F2xx Series with Wireless

Markings:



II 2 (1) G Ex db mb [ia Ga] IIB+H2 Gb
II 2 (1) D Ex mb tb [ia Da] IIIC Db

Ambient Temperature	Temperature Code - Gas	Temperature Code - Dust
-40°C to +50°C	T6	T85°C
-40°C to +65°C	T5	T100°C
-40°C to +70°C	T4	T105°C
-40°C to +85°C	T4	T120°C

Actual product markings may or may not include all of the markings shown above.

Description of Equipment:

F2a-xx-b-03-c-xx. Network Ethernet Camera.

a = Sensor: (two digits from 00 to 99).

b = Power: 01, 02, 03 or 04.

c = Wireless: (two digits from 00 to 99).

x = Options not affecting the equipment safety.

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