

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:** FM18ATEX0073X

4 **Equipment or protective system:** F1xx Series Network Ethernet Cameras
(Type Reference and Name)

5 **Name of Applicant:** Spectrum Camera Solutions LLC

6 **Address of Applicant:** 8935 Alameda Genoa Road
Houston, TX 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:

PR449583 dated 24th October 2018

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 60079-31:2014 and 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:



I I2 G Ex db IIB+H2 T* Gb Ta = -50°C to +60°C

I I2 D Ex tb IIIC T85°C Db Ta = -50°C to +60°C

(T* =T6 without optional breather/drain, T* =T5 with optional breather/drain)



Richard Zammitt
Certification Manager, FM Approvals Europe Ltd.

Issue date: 19th April 2022

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

FM Approvals Europe Limited, One Georges Quay Plaza, Dublin. Ireland. D02 E440
T: +353 (0) 1761 4200 E-mail: atex@fmaprovals.com www.fmaprovals.com

F ATEX 020 (Dec/2020)



Page 1 of 3

SCHEDULE

to EU-Type Examination Certificate No. FM18ATEX0073X

13 Description of Equipment or Protective System:

General - The F1xx Series Network Ethernet Cameras are designed to provide CCTV monitoring in hazardous environments.

Construction - The F1xx Network Ethernet Cameras are housed in an ATEX certified single compartment enclosure with blind and window thread-on covers. The enclosure contains two threaded entries available as 3/4 inch NPT. The enclosure is ATEX certified as Flameproof, II 2 G Ex db IIB+H2 Gb; and Protection by enclosure, II 2 D Ex tb IIIC Db under DEMKO certificate 07 ATEX 0622294U. The optional breather/drain is ATEX certified as Flameproof, II 2 G Ex db IIC Gb; and Protection by enclosure, II 1 D Ex ta IIIC Da under CML certificate 18ATEX1330U.

The enclosure has an ingress protection rating of IP66.

Ratings - The F1xx Series Network Ethernet Cameras can be supplied with a variety of cameras and devices (in accordance with EN 60950 or EN 62368) complying with the IEEE 802.3af or 802.3at PoE (Power over Ethernet) standard (57 Vdc max). Voltage and wattage shall not exceed the maximum tested configuration of 57 Vdc (10 W) for the camera and 12-30 V (26 W) for the heater. The total maximum wattage shall not exceed 36 W in any voltage configuration and/or combination in accordance with the EN 60950 or EN 62368 power requirements. The F1xx Series Network Ethernet Cameras are rated for use in an ambient temperature range of -50°C to +60°C and are IP66. The camera within the enclosure may be placed in any arrangement provided that an area of at least 40% 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.

F1a-b-c. Network Ethernet Camera.

a = Camera manufacturer code (two digits) 01 to 99.

b = Camera manufacturer part number (up to six digits).

c = Optional breather/drain BLANK or BD.

14 Specific Conditions of Use:

1. The flameproof joints of the equipment 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.

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.

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 MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

SCHEDULE



Member of the FM Global Group

to EU-Type Examination Certificate No. FM18ATEX0073X

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 |
|--------------------|---|
| 12th November 2018 | Original Issue. |
| 15th July 2019 | <u>Supplement 1:</u> Report Reference: RR219243 dated 09th July 2019. Description of the Change: Minor documentation changes not affecting the product safety. Minor corrections to the product description. Certificate transferred from FM Approvals Ltd., notified body no. 1725, to FM Approvals Europe Ltd., notified body no. 2809. |
| 19th April 2022 | <u>Supplement 2:</u> Report Reference: RR231305 dated 18th April 2022. Description of the Change: EN 60079-0:2012+A11:2013 examination updated to EN IEC 60079-0:2018. Clarification of flameproof temperature class code. Other minor documentation updates not affecting the equipment safety. |

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

FM Approvals Europe Limited, One Georges Quay Plaza, Dublin, Ireland. D02 E440
T: +353 (0) 1761 4200 E-mail: atex@fmapprovals.com www.fmapprovals.com