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# UK-TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective systems intended for use in Potentially Explosive Atmospheres – UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 UK-Type Examination Certificate No: FM22UKEX0016X

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

5 Name of Applicant: Spectrum Camera Solutions LLC

6 Address of Applicant: 8935 Almeda 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 Ltd, Approved Body number 1725, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

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

PR449583 – RR231305 dated 18th April 2022

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 UK-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance with the Regulations. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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



II 2 G Ex db IIB+H2 \* Gb Ta = -50°C to +60°C

II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +60°C

\*T6 without optional breather/drain

\*T5 with optional breather/drain



Victor Aluko-Oginni  
Certification Manager, FM Approvals Ltd.

Digitally signed by VictorAluko-Oginni  
DN: O=FM Approvals Limited, CN=Victor Aluko-Oginni,  
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Foxit PhantomPDF Version: 10.1.5

Issue date: 22<sup>nd</sup> April 2022

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

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F UKEX 020 (Jan/21)



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13 Description of Equipment or Protective System:

**General** - The F1xx Series Network Ethernet Cameras are designed to provide CCTV monitoring in harardous 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, II2G 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, II1 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 EN60950 or EN62368) complying with the IEEE 802.3af or 802.3at PoE (Power over Ethernet) standard (57Vdc max). Voltage and wattage shall not exceed the maximum tested configuration of 57 Vdc (10 W) for the camera and 12-30V (26W) for the heater. The total maximum wattage shall not exceed 36 W in any voltage configuration and/or combination in accordance with the EN60950 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 12.5mm.

**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:**

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the confidential report identified in item 8.

16 **Test and Assessment Procedure and Conditions:**

This UK-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 UKCA Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Regulations in all applications.

This Certificate has been issued in accordance with FMApprovals Ltd's UKCA Certification Scheme.

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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 Approved Body.

18 **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
22 <sup>nd</sup> April 2022	Original Issue.

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