



1

# 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: FM22UKEX0028X

4 Equipment or protective system: D 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, 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:

PR462443 dated 9th June 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 T6 Gb Ta = -20°C to +55°C

II 2 D Ex tb IIIC T85°C Db Ta = -20°C to +55°C



Digitally signed by Victor Aluko-Oginni  
DN: O=FM Approvals Limited, CN=Victor Aluko-Oginni,  
E=victor.aluko-oginni@fmaprovals.com  
Foxit PhantomPDF Version: 10.1.5

Victor Aluko-Oginni  
Certification Manager, FM Approvals Ltd.  
Issue date: 15th June 2022

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



# SCHEDULE

to UK-Type Examination Certificate No. FM22UKEX0028X



Member of the FM Global Group

## 13 Description of Equipment or Protective System:

**General Construction** - The D Series Network Ethernet Cameras are designed to provide visual monitoring in hazardous environments. The D Series Network Ethernet Cameras consist of a dual-compartment, cylindrical housing with a thread-on blind wiring compartment cover and a thread-on dome window camera compartment cover. The housings are available in either 316 stainless steel or 6061-T6 aluminium alloy. The window cover consists of a dome lens cemented in place. There are three M20 openings between the wiring compartment and the camera compartment. The openings are closed by two M20 plugs and one cemented Ethernet cable bushing. The wiring compartment contains two M20 entries. The D Series Cameras utilize the same wiring compartment and dome window cover. The main difference is the size of the camera compartment with the D100, D200, D300, D400 and D500 having an approximate housing length of 3.32 inches (84mm), 7.75 inches (197mm), 4.5 inches (114mm), 5 inches (127mm) and 5.5 inches (140 mm), respectively. The D Series cameras can also be ordered in custom housing lengths from 84 mm to 196 mm (eg. d084 to D196). The optional breather/drain is ATEX certified as Flameproof, II 2 G Exdb IIC Gb; and Protection by enclosure, II 1 D Exta III C Da under CML certificate 18ATEX1330U.

**Ratings** - The D Series Network Ethernet Cameras can be supplied with a variety of cameras (in accordance with EN60950 or EN62368) complying with the IEEE802.3af, 802.3at, 802.3at++ or 802.3bt PoE (Power over Ethernet) standard (57Vdc max). Voltage and wattage shall not exceed the maximum tested configuration of 57Vdc (60W). The D Series Network Ethernet Cameras are rated for use in an ambient temperature range of -20°C to +55°C and are IP66/67 (IP67 is not applicable when supplied with optional breather/drain). 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.

### ***Dab-c-d-e.Network EthernetCamera.***

- a = Housing length 1, 2, 3, 4 or 5 (or any three digits from 084 to 196 representing custom housing lengths inmm).
- b = Camera manufacturer code (two digits) 01 to 99.
- c = Material A or S.
- d = Several characters representing the camera manufacturer's part number (may contain additional dashes).
- e = Optional breather/drain BLANK or BD. (IP67 is not applicable when supplied with optional breather/drain).

## 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.
3. The equipment meets the requirements according to the low level risk of mechanical danger. Therefore, the equipment shall be located and installed such that the risk of impact or other mechanical damage is reduced or avoided.

## 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.

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

FM Approvals Ltd. Voyager Place, Maidenhead, Berkshire, SL6 2PJ. United Kingdom  
T: +44 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: [atex@fmapprovals.com](mailto:atex@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

# SCHEDULE



Member of the FM Global Group

to UK-Type Examination Certificate No. FM22UKEX0028X

**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 FM Approvals Ltd's UKCA 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 Approved Body.

**18 Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
15th June 2022	Original Issue.

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

FM Approvals Ltd. Voyager Place, Maidenhead, Berkshire, SL6 2PJ. United Kingdom  
T: +44 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: [atex@fmapprovals.com](mailto:atex@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)