



1. EC-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3. EC-Type Examination Certificate Number: ITS16ATEX18446X

4. Equipment or Protective System: Video camera enclosure model :
EC-940S-***-***-***-*** standard version and HD
version
EC-840S-***-***-***-***-** thermal version

5. Manufacturer: R. STAHL Camera Systems GmbH

6. Address: Adolf-Grimme-Allee 8
50829 Köln
Germany

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

8. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential Intertek Report 102501558UDI-001B dated 14 March 2016.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012, EN 60079-1:2014 and EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. 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 the following:-



II 2G Ex d IIC Tx Gb
II 2D Ex tb IIIC Tx Db IP66/68
-60°C ≤ Ta ≤ +65°C

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
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www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

Vijay K. Varma
V K Varma
Certification Officer
01 April 2015

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SCHEDULE

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1: Description of Equipment

The EC series explosion-proof housing has been designed for use with cameras operating in industrial environments in which there may be an explosive atmosphere due to gas, vapours, mists, or air or powder mixtures.

The EC housing is made of micro shot peened AISI 316L stainless steel. It is constituted by a cylindrical body closed by one welded front flange and one bolted rear flange.

The front flange has toughened glass window or germanium window.

The rear flange incorporates the internal slide where the camera must be positioned; it contains also the internal electronics that manages the power supply and the heating devices of the housing.

The cables entry is made through one 3/4" NPT threaded hole on the rear flange.

The EC series explosion-proof housing has an IP66/IP68 (2h, 5m) protection degree and its operating temperature is from -60°C to +65°C, depending on application.

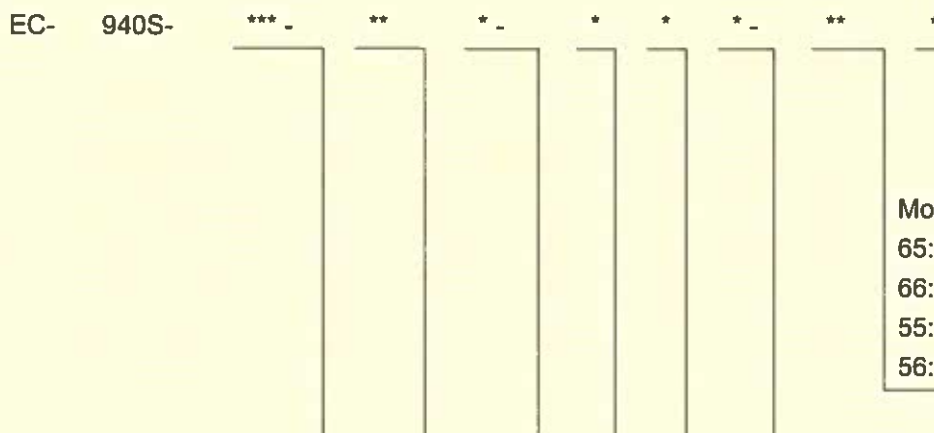
The unit is designed for use in a fixed location, for surveillance of areas classified as zone 1-21 and zone 2-22 potentially explosive atmospheres.

T _{amb}	Gas	Dust
-60°C up to +65°C	T5	+100°C
-50°C up to +65°C	T5	+100°C
-60°C up to +55°C	T6	+85°C
-50°C up to +55°C	T6	+85°C

The type code is function of the model of the camera:

1. Standard;
2. With thermal camera; and
3. With High definition Camera.

The type code for the standard model and for High definition Camera is:



Variation
*: empty for internal use

- Model:
- 65: T6 -50°C/+55°C
 - 66: T6 -60°C/+55°C
 - 55: T5 -50°C/+65°C
 - 56: T5 -60°C/+65°C

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Connection:

- O: no cable, no cable gland
- *: connection devices
- F: cable tail 4mt
- G: cable tail 10mt
- H: cable tail xx mt
- I: cable tail xx mt
- J: cable tail xx mt

Voltage:

2: 12-24VDC / 24VAC

Accessory

- O: no accessory
- W: with wiper

Video output :

- A : analog
- I : IP H.264

Camera:

- 00: without camera
- ** : pre-installed camera

AFZ: auto focus camera

WOC: without camera

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The type code for the Thermal camera frequency is:

EC- 840S-

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* -

** -

*

*

Variation
*: empty for
internal use

Thermal camera
frequency:
EMPTY: 7.5-8.3Hz
H: 25-30Hz

Model:
65: T6 -50°C/+55°C
66: T6 -60°C/+55°C
55: T5 -50°C/+65°C
56: T5 -60°C/+65°C

Connection:
0: no cable, no cable gland
*: connection devices
F: cable tail 4mt
G: cable tail 10mt
H: cable tail xx mt
I: cable tail xx mt
J: cable tail xx mt

Voltage:
2: 12-24VDC / 24VAC

Camera
00: without camera
**: pre-installed camera

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Video output :

A : analog

I : IP H.264

Lens:

00: without camera and lens

** : pre-installed lens

TIC: Thermal Imaging camera

WOC: without camera

14. Report Number

Intertek Report Ref: 102501558UDI-001B dated. Issue: 00 Dated: 14 March 2016

15. Conditions of Certification

(a). Special Conditions for safe use

- The max power consumption of the camera installed inside the enclosure and the dimensions shall be:

Housing	Power consumption		Max dimensions of video camera (WxHxL)	
	With video encoder	Without video encoder	With video encoder IP	Without video encoder IP
EC-940S-***-**A-***-***-**	6W	8W	70mmx65mmx120mm	70mmx65mmx140mm
EC-840S	6W	8W	70mmx65mmx120mm	70mmx65mmx140mm
EC-940S-***-**I-***-***-**	6W	8W	70mmx65mmx100mm	70mmx65mmx140mm

- The video encoder, if present, is part of the PCB preinstalled by the manufacturer.
- It is required to use cables and cable glands, fittings or other connection element suitable for a minimum temp of +80°C.
- Specific guidance noted to contact the original manufacturer for information on the dimensions of the flameproof joints is reported in the user manual.
- The rear access cover has to be closed with eight M5x0.8 hexagon socket stainless steel screws (A4 class 70, head per ISO 4762, long 12 mm, yield stress 200 N/mm²).
- It is not possible to install video camera or component with batteries.
- When the enclosure is used with a conduit, the following requirement must be satisfied: The distance from the face of the seal closest to the enclosure (or intended end-use enclosure), and the outside wall of the enclosure (or intended end-use enclosure) shall be as small as practical, but in no case more than the size of the conduit or 50 mm, whichever is the lesser.

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The Intertek logo consists of the word "Intertek" in a white, sans-serif font, centered within a dark blue rounded rectangular background.

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(b). Conditions of Manufacture

- Routine test for IEC 60079-1: it is required to make an overpressure at 45bar. The application of the pressure shall be at least 10s.

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16. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report Ref: 102501558UDI-001B dated. Issue: 00 Dated: 14 March 2016

17. Drawings and Documents

Title	Drawing No.:	Rev. Level:	Date:
LABEL DRAWING	LABEL DRAWING EC-940S EC-840S	00	8 March 2016
Contractual agreement		00	16 December 2015
EC-940S series, EC-840S series, EC-940S HD series Ex-proof stainless steel housing, instruction manual	MNTCMVXTHD_1606	00	Week 06 of 2016
Stahl Camera System declaration		00	21 January 2016
Stahl Camera System declaration		00	26 February 2016
Videotec declaration		00	21 January 2016

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