

# (1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

## TÜV 20 ATEX 8566 X

Issue: 00

- (4) Equipment: **Explosion-Proof IR Camera**  
Type(s): **DH-ECA3A1 series**
- (5) Manufacturer: **ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.**
- (6) Address: **No. 1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26<sup>th</sup> February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex8566.00/20

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 60079-0:2018**

**EN 60079-1:2014**

**EN 60079-31:2014**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



**II 2 G Ex db IIC T6 Gb**  
**II 2 D Ex tb IIIC T80°C Db**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-10-27

Dipl.-Ing. He Mei



This EU-Type Examination Certificate without signature and stamp shall not be valid.  
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **EU Type Examination Certificate**  
**TÜV 20 ATEX 8566 X** Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Explosion-Proof IR Camera  
 Type(s): DH-ECA3A1 series

15.2 Description

General product information

The main enclosure of the Explosion-Proof IR Camera model DH-ECA3A1 is made of 304 or 316L. The enclosure is constructed in type of explosion protection flameproof enclosure “db”. The equipment is intended to be used combustible gas environment in Zone 1 and 2, and combustible dust environment in Zone 21 and Zone 22. DH-ECA3A1 is used to monitor the condition of environment and transfer to display.

Type/model description:

Fixed type	Resolution	Optical Zoom	Video standard	P/T Type	Interface	Intelligent Function	Zoom Module	Zoom Module Sequence Number	Feature 1	Feature 2
DH-ECA3A1	0=Standard 1=1.3 megapixel 2=2 megapixel 3=3 megapixel 4=4 megapixel 5=5 megapixel 6=6 megapixel 8=8 megapixel A=10 megapixel	00=Fixed 03=3x 04=4x 12=12x 16=18x 20=20x 23=23x 28=28x 30=30x 33=33x 36=36x 38=38x 40=40x 44=44x	None=PAL N=NTSC							
Not relevant with Ex.										

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Technical Data

Rated Voltage (V): DC 12V

Rated power: 12W

Ambient Temperature: -40°C to 60°C

Ingress protection: IP68

(15) Test-Report No. GC/Ex8566.00/20

(17) Special Conditions for safe use

1. Specific guidance noted to contact the original manufacturer for information on the dimension of the flameproof joints.
2. CAUTION - USE FASTENERS WITH YIELD STRESS  $\geq$  260Mpa.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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