



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx UL 18.0069X

Issue No: 0

Certificate history:

[Issue No. 0 \(2018-12-20\)](#)

Status: **Current**

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Date of Issue: **2018-12-20**

Applicant: **Top Hi-Tech Co., Ltd.**  
9F, No. 1 Zhongshan Rd.  
Tucheng District  
New Taipei, 23680  
**Taiwan**

Equipment: **IP camera C1203 Series, Model THTC1203ABLZE6**

*Optional accessory:*

Type of Protection: **Flameproof "db", Dust Ignition Protection by Enclosure "tb"**

Marking:

Ex db IIB+H2 T6 Gb

Ex tb IIIC T85°C Db

-20°C to +40°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

Andrew Moffat

*Position:*

Project Engineer

*Signature:  
(for printed version)*

*Date:*

2018-12-20

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

**UL LLC**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
United States of America





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Manufacturer: **Top Hi-Tech Co., Ltd.**  
9F, No. 1 Zhongshan Rd.  
Tucheng District  
New Taipei, 23680  
**Taiwan**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[US/UL/ExTR18.0078/00](#)

Quality Assessment Report:

[DE/TUR/QAR13.0016/02](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

C1203 series of flameproof IP camera are composed of Glass Cover, Glass Lens, Tank, Tank O-ring, Top Cover O-ring and Top Cover to form a flameproof enclosure. The CCTV unit is protected within the flameproof enclosure and powered by a PoE source in the field. The Glass Lens is secured to bottom of Tank by Glass Cover; the Top Cover is secured to top of Tank by screws. The Top Cover incorporates four threaded openings at sides with Screw Plugs and also provides one threaded opening at top for Cable Gland assembly. The constructions of all Tank, O-rings and Cable Gland assemblies are evaluated for "db" and "tb" protection. All Tank assemblies including Glass Cover and Top Cover are aluminum alloy, the optic part is a glass material and secured between Tank and Glass Cover; all Cable Gland assemblies are stainless steel with the O-ring and Tube secured inside to form as the protection.

**Please see Annex for additional information.**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

The flameproof joints are not intended to be disassembled or repaired.

### Annex:

[Annex to IECEx UL 18.0069X Issue 0.pdf](#)



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## TYPE DESIGNATION

Nomenclature:

The complete model number breakdown is as following:

Model	THT	C	1203	A	B	L	Z	E	Z6
	1	2	3	4	5	6	7	8	9

- 1 – Designates basic series. THT – Basic series for all products.
- 2 – Designates product types. C – “d” flameproof IP camera.
- 3 – Designates model name. 1203 – Models C1203 series.
- 4 – Designates sub-series. A – CCTV driven by PoE.
- 5 – Designates type of Top Cover. B – Short Top Cover.
- 6 – Designates module type. L – CCTV Module.
- 7 – Designates CCT (Correlated Color Temperature) code. Z – No color temperature.
- 8 – Designates operation voltage. E – 48 Vdc.
- 9 – Designates operation wattage. Z6 – 5.6 W.

Models covered are as follows:

Model	Ambient Temperature range	Gas Temperature Code	Dust Temperature Rating
THTC1203ABLZE6	-20°C to +40°C	T6	T85°C

## PARAMETERS RELATING TO THE SAFETY

THTC1203ABLZE6 – 48 Vdc, 5.6 W.

## MARKING

TOP HI-TECH CO.,LTD  
 9F 1 Zhongshan Rd Tucheng District, New Taipei,  
 236 Taiwan.  
 THTC1203ABLZE6  
 V:48 Vdc P:5.6W SN:XX1XX2XXX3  
 DEMKO 18 ATEX 2055X IECEx UL 18.0069X  
 II 2 G Ex db IIB+H<sub>2</sub> T6 Gb Ex db IIB+H<sub>2</sub> T6 Gb  
 II 2 D Ex tb IIIC T 85°C Db Ex tb IIIC T 85°C Db

"WARNING-  
 The equipment shall not be opened"  
 The flameproof joints are not intended to be  
 disassembled or repaired.



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## ROUTINE EXAMINATIONS AND TESTS

Routine Overpressure tests according to IEC 60079-1, Clause 10.9.3.4.1 are not required, as the enclosures have been successfully tested at four times the reference pressure.