



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx PRE 19.0071X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-02-27

Applicant: **Cooper Yuhua (Changzhou) Electric Equipment Manufacturing Co., Ltd.**
No.60, Hehuan Road, Zhonglou Development Zone,
Changzhou 213023
China

Equipment: **YHPTZ41B Series Explosion-proof PTZ Camera Station**

Optional accessory:

Type of Protection: **Ex db, Ex tb, Ex op is, Ex op pr**

Marking: **YHPTZ41B without optical fibre:** Ex db op is IIC T6 Gb
Ex tb op is IIIC T80°C Db
YHPTZ41B-1 without optical fibre: Ex db IIC T6 Gb
Ex tb IIIC T80°C Db
YHPTZ41B with optical fibre: Ex db op is op pr IIC T6 Gb
Ex tb op is op pr IIIC T80°C Db
YHPTZ41B-1 with optical fibre: Ex db op pr IIC T6 Gb
Ex tb op pr IIIC T80°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Ståle Sandstad

Position:

Certification Manager

Signature:
(for printed version)

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DNV GL Presafe AS
Veritasveien 3
1363 Høvik
Norway





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Manufacturer: **Cooper Yuhua (Changzhou) Electric Equipment Manufacturing Co., Ltd.**
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Changzhou 213023
China

Additional
manufacturing
locations:

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 equipment 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

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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:

[NO/PRE/ExTR20.0008/00](#)

Quality Assessment Report:

[NO/NEM/QAR13.0008/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The YHPTZ41B series Explosion-proof PTZ Camera Station consists of base frame component, horizontal cylinder part, pitching cylinder part and infrared light cylinder component. Power supply panel, horizontal transmission mechanism and stepping motors are installed inside the base frame component; Pitching cylinder mechanism, stepping motors and main circuit board are installed inside the horizontal cylinder part, its function is horizontal movement and connecting with pitching cylinder mechanism; Camera and rain wiper are installed in the pitching cylinder component; Infrared light is installed in the infrared light cylinder component, which makes the product with night view function. The enclosure is made of stainless steel 306L with thickness of at least 3mm. The transparent parts in pitching cylinder and infrared light cylinder are made of toughed glass with thickness of 15mm and 10mm respectively. There are two cable entries on the base frame with certified plugs and sealing washers.

The light cylinder includes seven LED infrared light sources, and meets the requirements of inherently safe optical radiation.

YHPTZ41B-1 is of the same structure with YHPTZ41B but with no infrared light cylinder.

Type designation

See annex

Electrical Data

Rated Voltage: 110~240V a.c. or 24 V a.c.

Rated frequency: 50/60 Hz

Degrees of protection (IP Code)

IP66

IPX8 (1.2 m, 45 min) (The equipment has been separately tested against the requirements of IEC 60529)

Ambient temperature:

-40°C to +65°C

Routine tests

See annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 3 and 4 of IEC 60079-1.

- The mechanical property class of the fasteners which are relevant to the flameproof joint should be at least A4-70 with min. yield stress 450 MPa.

- Before application, separate IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP66/IP68 cable gland should be incorporated. Unused entries must be closed by the suitable IECEx certified blank elements.

Annex:

[IECEX PRE 19.0071X_issue 0_annex.pdf](#)

Annex to certificate: IECEx PRE 19.0071X Issue 0

Type designation

YH	PTZ	41B	-	<input type="checkbox"/>	
					Option of infrared light: Blank: with infrared light 1: without infrared light
					Design code
					Ex Product code, PTZ: Ex-proof Integrated Camera
					Company code

Routine tests

- Each unit must be subjected to routine overpressure test of the value as below for at least 10 s according to clause 16 of IEC 60079-1.

No.	Unit	Static Overpressure
1	Base frame	1.6 MPa
2	Horizontal cylinder	1.6 MPa
3	Pitching cylinder	2.3 MPa
4	Infrared light cylinder	1.9 MPa