



# 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](http://www.iecex.com)

Certificate No.: **IECEX KTL 21.0015X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2021-04-23  
Applicant: **Wonwoo Engineering Co., Ltd.**  
81, Magokjungang 6-ro, Gangseo-gu  
Seoul 07803  
Korea, Republic of  
Equipment: **Network PTZ Cameras, EZP-\*\*\*\*\* and TNU-\*\*\*\*E\* series**  
Optional accessory:  
Type of Protection: **Flameproof enclosures 'd' and Dust ignition protection by enclosure 't'**  
Marking: Ex db IIC T6 Gb  
Ex tb IIIC T80 °C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Park, Jong-koo**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

2021 - 04 - 23

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Certificate issued by:

**Korea Testing Laboratory**  
87, Digital-ro, 26-gil, Guro-gu  
Seoul  
Korea, Republic of





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Date of issue: 2021-04-23

Issue No: 0

Manufacturer: **Wonwoo Engineering Co., Ltd.**  
81, Magokjungang 6-ro, Gangseo-gu  
Seoul 07803  
**Korea, Republic of**

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 60079-31:2013** 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:

KR/KTL/ExTR21.0013/00

Quality Assessment Report:

KR/KTL/QAR20.0005/00



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The network PTZ cameras, EZP-\*\*\*\*\* and TNU-\*\*\*\*E\* series, have been designed for use with cameras operating in industrial environments. The EZP-\*\*\*\*\* and TNU-\*\*\*\*E\* series contain an integrated fully functional CCTV camera head system handling preset, autopan, and patrol functions with an integrated wiper. The equipment is comprised of the following compartments: a static entry compartment base, a main body providing 360° continuous pan movement, and either one or two camera housings with -90 ° to +90 ° tilt movement. The EZP-\*\*\*\*\* and TNU-\*\*\*\*E\* series housing are additionally fitted with an infra-red camera. The equipment provides one 3/4 NPT (or M25xP1.5) cable entry for end-user connection to either, cable connectors or a conduit system dependent on the application. It may be provided with an optional sun shield.

The equipment provides a degree of protection IP67 in accordance with IEC 60529 after pre-conditioning by IEC 60079-0.

## Ambient temperature

-40 °C ~ +60 °C

## Electrical data

EZP-\*\*\*\*\*-30 and TNU-\*\*\*\*ER : AC 24 V, (50/60) Hz, (6/3) A, (99/50) Wmax (Two AC Sources)

EZP-\*\*\*\*\* and TNU-\*\*\*\*E : AC 24 V, (50/60) Hz, 6 A, 99 Wmax (One AC Source)

## Model configuration

EZP-(a)(b)(cc)(d)(e)-30 / EZP-(a)(b)(cc)(d)(e)

(a, IP) : H(Network), M(Mega), A(Analog)

(b, Sensor size) : S(1/2"), None(1/3")

(cc, Zoom Ratio) : 18(18x), 20(20x), 30(30x), 36(36x), 40(40x), 55(55x)

(d, Chipset) : 8(M8), 9(M9), 5(i550)

(e, Resolution) : F(5MP), U(4k/8MP), Q(4MP), None(2MP)

TNU-(f)(gg)(h)ER / TNU-(f)(gg)(h)E

(f, Resolution) : 6, 7, 8, 9

(gg, Optical Zoom) : 12, 15, 20, 23, 25, 30, 32, 37, 40, 55

(h, Version) : 0~9

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

- The dimensions of flameproof joints are different from the values specified in the tables of the IEC 60079-1 standard. Contact the manufacturer for details of the flameproof joints.

- The screws(special fasteners) used for the assembly of the various parts of explosion-proof enclosures shall be of quality higher or equal to A2-70.

- For the equipment with a permanently connected cable, the user shall connect the free extremity of cable either in a non-explosive atmosphere or in an enclosure protected by a recognized protection mode adapted to the area.