



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 KTL 21.0015X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2023-07-28) Issue 0 (2021-04-23)
Date of Issue:	2024-07-11		
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:
(for printed version)

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:

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





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

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 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 Reports:

KR/KTL/ExTR21.0013/00

KR/KTL/ExTR21.0013/01

KR/KTL/ExTR21.0013/02

Quality Assessment Report:

KR/KTL/QAR20.0005/02



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The network PTZ cameras, EGP-***** and TNU-****E* series, have been designed for use with cameras operating in industrial environments. The EGP-***** 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 EGP-***** 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

EGP-*****-V1 and TNU-****ER : AC (100-240) V, (50/60) Hz, 1.7A, 120 Wmax

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

EGP-*****-V0 and TNU-****E : AC (100-240) V, (50/60) Hz, 1.4A, 87 Wmax

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

Model configuration

EGP-(a)(b)(cc)(d)(e)-(ww) / EGP-(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)

(ww, Extension) : None(None IR+24V), 30(IR(30)+24V), V0(None IR+Free Voltage), V1(IR(30)+Free Voltage)

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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue no.2 (2024.07.11)

- Addition of new types, EGP-*****-(V0/V1), and input option which have free voltage input [(100-240) V].

Issue no.1 (2023.07.28)

- Changes of descriptions in the name plate.