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

Certificate No.: IECEx KTL 17.0013X

Issue No: 1

Certificate history:
Issue No. 1 (2019-04-01)
Issue No. 0 (2017-08-04)

Status: **Current**

Date of Issue: **2019-04-01**

Applicant: **Insight technology**
4F 399, Sinheung-ro, Bucheon-si, Gyeonggi-do
Korea, Republic of

Equipment: **Explosion protection camera, HPX and FBX series**

Optional accessory:

Type of Protection: **Flameproof enclosures "d", Dust ignition protection by enclosure "t"**

Marking:

Ex db IIC T6 Gb

Ex tb IIIC T85 °C Db

Approved for issue on behalf of the IECEx Certification Body: Park Jong-koo

Position: Cerification Manager

Signature:
(for printed version)

Date: 2019-04-01

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:

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

IECEx Certificate of Conformity

Certificate No:	IECEx KTL 17.0013X	Issue No: 1
Date of Issue:	2019-04-01	Page 2 of 4
Manufacturer:	**Insight technology** 4F 399, Sinheung-ro, Bucheon-si, Gyeonggi-do **Korea, Republic of**	

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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 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:

KR/KTL/ExTR17.0014/00 KR/KTL/ExTR17.0014/01

Quality Assessment Report:

KR/KTL/QAR17.0001/00

IECEx Certificate of Conformity

Certificate No: IECEx KTL 17.0013X Issue No: 1

Date of Issue: 2019-04-01 Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Explosion protection camera HPX and FBX series are composed of the metallic enclosure, glass and LED lenses of polycarbonate. HPX series is composed of three separate flameproof enclosures while FBX series is composed of a single enclosure. One entry of 3/4 NPT is located on the base housing(HPX series) and front housing(FBX series) each. The equipment provides a degree of protection IP66/68 in accordance with IEC 60529 after preconditioning by IEC 60079-0. This CoC does not include the assessment to IEC 60079-28.

Ambient temperature
-40 °C to +60 °C

Electrical data
Rated voltage: 24 Vac, (50/60) Hz
Rated ampere: 6 A(HPX series), 3 A(FBX series)
Rate wattage: Maximum 72 W(HPX series), 36 W(FBX series)

Model configuration
a X – b c d
a(type): HP(PTZ type), FB(Fixed type)
X(explosion protection)
b(pixel): M30(mega pixel 30X zoon camera), M20(mega pixel 20X zoom camera)
c(sensitivity): S(normal camera), H(high sensitivity camera), F(flame detector dual), T(thermal sensor dual)
d(ethernet): N(with internet module(IP)), P(without ethernet module)

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Special fasteners with the yield stress of at least 238 MPa shall be used.
- The width of flameproof joints is greater than the values specified in the table of the IEC 60079-1.
- The gap of flameproof joints is less than the values specified in the table of the IEC 60079-1.

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Certificate No: IECEx KTL 17.0013X Issue No: 1

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

1. The new types of designation have been added. (*X-*F*, *X-*T*)