



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 17.0013X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 Issue 1 (2019-04-01)
Date of Issue: 2020-01-13 Issue 0 (2017-08-04)
Applicant: **Insight Technology Co., Ltd**
4F, 399, Sinheung-ro, Bucheon-si
Gyeonggi-do 14493
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:

Certification Manager

Signature:
(for printed version)

Date:

[Handwritten Signature]
2020-01-13

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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Date of issue: 2020-01-13

Issue No: 2

Manufacturer: **Insight Technology Co., Ltd**
4F, 399, Sinheung-ro, Bucheon-si
Gyeonggi-do 14493
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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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 Reports:

KR/KTL/ExTR17.0014/00

KR/KTL/ExTR17.0014/01

KR/KTL/ExTR17.0014/02

Quality Assessment Reports:

KR/KTL/QAR17.0001/00

KR/KTL/QAR17.0001/01

KR/KTL/QAR17.0001/02



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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(all except for FBX-M01*E), 12 Vdc(FBX-M01*E)

Rated current: 6 A(HPX series), 3 A(FBX series), 1 A(FBX-M01*E)

Rate wattage: Maximum 72 W(HPX series), 36 W(FBX series), 12 W(FBX-M01*E)

Model configuration

a X – b c d

a(type): HP(PTZ type), FB(Fixed type)

X(explosion protection)

b(pixel): M30(mega pixel 30X zoom camera), M20(mega pixel 20X zoom camera), M01(mega pixel 1X zoom camera, Fixed type only)

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), E(Power-Of-Ethernet, POE)

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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Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

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

Issue 2:

- The new types of designation have been added. (FBX-M01*E)