



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 DNV 22.0014X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2022-04-12

Applicant: **Industrial Video & Control Co.**
330 Nevada Street
Newton, MA 02460
United States of America

Equipment: **Explosion-proof Integrated Camera Type XPTZ series**

Optional accessory:

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

Marking: XPTZ-3049-03, XPTZ-3049-04, XPTZ-3049-05:
Ex db op is IIC T6 Gb
Ex tb op is IIIC T80°C Db

XPTZ-3045-01, XPTZ-3045-02, XPTZ-3045-03:
Ex db IIC T6 Gb
Ex tb IIIC T80°C Db

XPTZ-3049-03-Fx, XPTZ-3049-04-Fx, XPTZ-3049-05-Fx:
Ex db op is op pr IIC T6 Gb
Ex tb op is op pr IIIC T80°C Db

XPTZ-3045-01-Fx, XPTZ-3045-02-Fx, XPTZ-3045-03-Fx:
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:

Bjørn Spongsveen

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2022-04-28

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Certificate issued by:

DNV Product Assurance AS
Veritasveien 3
1363 Hovik .
Norway





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Manufacturing locations: **Industrial Video & Control Co.**
330 Nevada Street
Newton, MA 02460
United States of America

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/DNV/ExTR22.0013/00](#)

Quality Assessment Report:

[GB/FME/QAR14.0006/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of product:

This product is of Ex d flameproof protection type, XPTZ-3049-03-*, XPTZ-3049-04-* and XPTZ-3049-05-* consist of: transmission chamber, light chamber, camera chamber and power chamber; XPTZ-3045-01-*, XPTZ-3045-02-* and XPTZ-3045-03-* consist of: transmission chamber, camera chamber and power chamber; All joints of enclosure are protected by O-rings and lip-shaped sealing ring, which satisfied Ex tb dust ignition protection requirements; ingress protection level: IP68 (1.2 m/45 min). The light chamber in product XPTZ-3049-03-*, XPTZ-3049-04-* and XPTZ-3049-05-* includes seven LED infrared light sources, and meets the requirements of inherently safe optical radiation.

Type designation

XPTZ-**-**

-: Option of camera and fill light, 3045-01: L-camera, without fill light; 3045-02: S-camera without fill light; 3045-03: U-camera, without fill light; 3049-03: L-camera, with fill light; 3049-04: S-camera with fill light; 3049-05: U-camera, with fill light.

*: Option of optical fibre, Blank: without optical fibre, Fx: with optical fibre.

Electrical Data

Rated voltage: 100~240 V a.c., 50/60 Hz or
24 V a.c., 50/60 Hz or
24 V d.c. or
PoE++ (48 V d.c.)

Operating current: ≤ 3 A

Degrees of protection (IP Code)

IP68 (1.2 m, 45 min)

IPX6, IPX8 (2 m, 2 h) (according to IEC 60529)

Ambient temperature:

-40 °C to +60 °C

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	Power chamber	1.98 MPa
2	Transmission chamber	1.98 MPa
3	Camera chamber	1.98 MPa
4	Light chamber	1.98 MPa

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 table 3 and table 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 450MPa.
- Before application, separate IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP66/IP68 cable gland should be incorporated.
- For group III application of fixed installation, the end user shall follow the guidance in the instruction manual to minimize the risk of electrostatic discharge for the products with non-metallic coating.
- For the product XPTZ-**-Fx, only the composite cable with optical fibre specified in the instruction manual is permitted to be used. Before application, the optical fibre cable must be connected and protected according to the instruction manual to meet the requirements of IEC60079-28.