



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 EXV 24.0002X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-03-18

Applicant: **Tecnovideo S.R.L**
Via A. De Gasperi, 3,
Villaverla VI 36030
Italy

Equipment: **TXC Fixed Camera**

Optional accessory:

Type of Protection: **Ex 'db' & 'tb'**

Marking: **Ex db IIC T6/5 Gb**
Ex tb IIIC T85/100 °C Db

$-60^{\circ}\text{C} \leq T_{\text{amb}} \leq +65/75^{\circ}\text{C}$

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc FIET

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:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom





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Certificate No.: **IECEx EXV 24.0002X**

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Date of issue: 2024-03-18

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Manufacturer: **Tecnovideo S.R.L**
Via A. De Gasperi, 3,
Villaverla VI 36030
Italy

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 Report:

[GB/EXV/ExTR24.0004/00](#)

Quality Assessment Report:

[GB/EXV/QAR15.0001/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

TXC series is a range of fixed camera enclosures that are tubular in shape and constructed from stainless steel with two threaded end caps, one with the cable entries and a cemented window for the camera to the other. There are three optional window material versions, depending on camera type: toughened glass, sapphire or germanium. Cable entry options may be metric and NPT.

Rating: Up to 230V

Ingress Protection: IP6X

SPECIFIC CONDITIONS OF USE: YES as shown below:

- For Tamb >60°C - Cable entry temperature can exceed 70°C, select suitable cable and glands for the end application.
- For fixed installation - part of the enclosure may be capable of generating electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.
- The camera must be installed in an area of low risk of impact.

Annex:

[IECEx 24.0002X Annex.pdf](#)

Manufacturers Responsibility

- When a fibre optical cable is used on the equipment it shall be suitably protected against mechanical damage external to the equipment (wire armoured cable, fitted in conduit, within a cable tray etc) in accordance with IEC/EN 60079-14
- The cross-sectional area occupied by the internal equipment within the camera housing shall not exceed 60%.
- The power dissipated within the camera housing shall not exceed 15W (unless fitted with a low ambient protection system which must be fitted with a redundant thermal trip set to open no higher than 30°C).

Routine Tests

- The manufacturer must carry out routine pressure tests to a value no less than 23 Bar on each camera housing to ensure the equipment's capability to withstand overpressure.

Title:	Drawing No:	Rev	Date:
Scheduled Drawing TXC	SD00100	00	01/02/2024
Scheduled Drawing Toughened Glass window	SD00101	00	19/01/2024
Scheduled Drawing TXC Marking Plate (ATEX/IECEx)	SD00117	00	01/02/2024
Min requirements for instruction manual of TXC series	SD00121	00	01/02/2024