

1 UNITED KINGDOM CONFORMITY ASSESSMENT

UK TYPE EXAMINATION CERTIFICATE

2 Product Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1

3 Type Examination Certificate Number: **ExVeritas 22UKEX1326X** Issue: **1**

4 Product: TX Series of Camera Enclosures and Pan and Tilt Unit

5 Manufacturer: Tecnovideo S.r.l.

6 Address: via A. De Gasperi, 3 Villaverla (VI) 36030, Italy

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0: 2018**

**EN 60079-1: 2014**

**EN 60079-31: 2014**

Except in respect of those requirements listed at section 16 of the schedule to this certificate.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.


11 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the equipment shall include the following

 II 2 G Ex db IIC T6/5/4 Gb  
II 2 D Ex tb IIIC T85/100/135°C Db

$-60^{\circ}\text{C} \leq T_{amb} \leq +60/75/80^{\circ}\text{C}$

When populated with IR spotlight models:

 II 2 G Ex db IIC T6/5 Gb  
II 2 D Ex tb IIIC T85/100°C Db

$-60^{\circ}\text{C} \leq T_{amb} \leq +50/65^{\circ}\text{C}$



No. 8613

On behalf of ExVeritas

  
S. Clarke CEng MSc FIET  
Managing Director

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The status of this certificate can be verified at [www.exveritas.com](http://www.exveritas.com)

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## Schedule

### 13 Description of Product

The equipment is constructed from stainless steel and consists of a camera station with optional pan and tilt unit and a stand-alone pan and tilt unit. The camera station has the option of either toughened glass, IR germanium or sapphire windows. The IR models are supplied either with or without a fixed window guard. Window guard for sapphire windows versions is optional. The windows are cemented into the window frame end caps using a silicone-based cement.

The pan and tilt unit can be fitted with either a mounting bracket, a single or dual camera station. The camera station can be either fitted to the pan and tilt unit or standalone. The certification of the camera station includes any make of camera and optional device that will fit within the physical constraints of the enclosure and has the option to have a wiper motor fitted.

Model number detailed as:

PTZ units/camera stations: TXP(n)(a)

Meaning:

**TXP:** Pan & Tilt unit/PTZ camera station

n: number of camera housing(s) or bracket(s).

It can be:

- 0: one bracket
- 1: one camera housing
- 2: two camera housings
- 3: one camera housing and one bracket
- 4: two brackets

a: cable entries. It can be:

- A: 2x M20
- B: 2x 3/4"
- C: 2x M25
- D: 1x M20
- E: 1x 3/4"
- F: 1x M25
- G: 1x M20 + 1x M25
- H: 1x M20 + 1x 3/4"
- I: 1x M25 + 1x 3/4"

Camera stations: TX(a)(n)(b)(c)(d)

Meaning:

**TX:** camera housing

a: it can be:

- C: P&T camera housing (blank cover)
- F: fixed camera housing
- H: P&T camera housing with rear cover

n: it can be:

- 0: camera version
- 1: IR spotlight version
- 2: WIFI version

b: window version. It can be:

- 0: glass window without wiper
- 1: glass window with wiper
- 2: germanium window
- 3: germanium window without protective guard
- 4: sapphire window
- 5: sapphire window (tilted)
- 6: dual window (glass + germanium)

c: cable entries (only for TXF and TXH version). It can be:

- A: 2x M20
- B: 2x 3/4"
- C: 2x M25
- D: 1x M20
- E: 1x 3/4"
- F: 1x M25
- G: 1x M20 + 1x M25
- H: 1x M20 + 1x 3/4"
- I: 1x M25 + 1x 3/4"

J: 3x M20

N: 3x 3/4"

O: 3x M25

P: 4x M20

Q: 4x 3/4"

R: 4x M25

T: up to 4 cable entries with different threads, shown near cable entries

d: length. It can be:

- S: short
- M: medium
- L: long

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Issue 1

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### 13.1 Details of changes:

#### Issue 1

- Introduction of alternative dual window end cap
- Adjustment to spotlight T Classes
- Minor adjustment to machining tolerances

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

| Report Number | Cert Issue Date | Issue | Comment                                |
|---------------|-----------------|-------|--|
| R3465/A/1     | 14 Feb 2023     | 0     | Initial issue of the Prime Certificate |
| R5195/A/1     | 16 Oct 2024     | 1     | Issue of first variation               |

#### 14.2 Compliance Drawings:

| Title:   | Drawing No.: | Rev. Level: | Date:      |
|--|--------------|-------------|------------|
| Scheduled Drawing TXF (V3)                     | SD00081      | 01          | 03/10/2024 |
| Scheduled Drawing TXPTZ Upper Body (V3)        | SD00082      | 01          | 03/10/2024 |
| Scheduled Drawing TXFIR (V3)                   | SD00083      | 01          | 03/10/2024 |
| Scheduled Drawing TXPTZ Lower Body (V3)        | SD00084      | 01          | 03/10/2024 |
| Scheduled Drawing TXPTZD Internal Volumes (V3) | SD00085      | 01          | 03/10/2024 |
| Scheduled Drawing TXFP (V3)                    | SD00086      | 01          | 03/10/2024 |
| Scheduled Drawing TXFIRP (V3)                  | SD00087      | 01          | 03/10/2024 |
| Scheduled Drawing Ex Marking Plate UKCA (V3)   | SD00096      | 01          | 03/10/2024 |
| Scheduled Drawing Battery (V3)                 | SD00097      | 00          | 25/01/2023 |
| Minimum requirements for installation manuals  | SD00098      | -           | 25/01/2023 |

### 15 Specific Conditions of Use

#### 15.1 Special Conditions for Safe Use:

- Flamepaths are not for modification or repair.
- All cover fasteners are property class A4-70.
- Cable entry temperature can exceed 70°C – select suitable cable and gland 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.

#### 15.2 Conditions for Use (Manufacturers responsibility):

- The power dissipated within the camera housing shall not exceed 25W (or 40W in case of redundant thermal protection set to open no higher than 35°C).
- The motor housing enclosures must be fitted with suitable thermal limiting devices as defined on the associated drawings.
- 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%.
- When coin cells are fitted, the equipment must be marked for limited use at -40°C

#### Routine Tests

- The manufacturer must carry out routine pressure tests to a value no less than 22.9 Bar on each camera and pan and tilt housing to ensure the equipment's capability to withstand overpressure.

### 16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.

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