1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 22ATEX1325X Issue: 0

4 Equipment: 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 equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN IEC 60079-0: 2018 EN 60079-1: 2014 EN 60079-31: 2014

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 EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. 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°C ≤ Tamb ≤ +60/75/80°C

When populated with IR spotlight models:

II 2 G Ex db IIC T5/4 Gb
II 2 D Ex tb IIIC T100/135°C Db

-60°C ≤ Tamb ≤ +40/60°C

DANAK
PROD Reg.No. 7044
Member of EA MLA

On behalf of ExVeritas

Peter Lauritzen
Managing Director

Schedule

13 Description of Equipment or Protective System

The equipment is constructed form stainless steel and consists of a camera enclosure and optional pan and tilt unit. The camera enclosure 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 single or dual camera enclosure. The camera enclosure can be either fitted to the pan and tilt unit or standalone. The camera enclosure can be fitted with any make of camera 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)
- 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

Schedule

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

14.2 Compliance Drawings:

Title:	Drawing No:	Rev. Level:	Date:
Scheduled Drawing TXF (V3)	SD00081	00	25/01/2023
Scheduled Drawing TXPTZ Upper Body (V3)	SD00082	00	25/01/2023
Scheduled Drawing TXFIR (V3)	SD00083	00	25/01/2023
Scheduled Drawing TXPTZ Lower Body (V3)	SD00084	00	25/01/2023
Scheduled Drawing TXPTZD Internal Volumes (V3)	SD00085	00	11/11/2022
Scheduled Drawing TXFP (V3)	SD00086	00	25/01/2023
Scheduled Drawing TXFIRP (V3)	SD00087	00	25/01/2023
Scheduled Drawing Ex Marking Plate ATEX-IECEx (V3)	SD00093	00	11/11/2022
Scheduled Drawing Battery (V3)	SD00097	00	25/01/2023
Minimum requirements for installation manuals	SD00098	-	25/01/2023

15 Conditions of Certification

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

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 the Notified Body of any modifications to the design of the product described by this schedule.