

EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr **ITS 16 ATEX 101021 X**

4. **Product:** 14XX and 24XX Pan and Tilt Cameras (XF, XP, XC, XT)

5. **Manufacturer:** Eaton MEDC Ltd (Oxalis) **Applicant:** Eaton MEDC Ltd (Oxalis)

6. **Address:** Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB, United Kingdom **Address:** Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB, United Kingdom

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

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 103256668CHE-001 dated December 2017, 1027455191CHE-003A, 001B and 001C Issue dated November 2016 and 102172407CHE-001 dated April 2016.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-11:2012, EN 60079-28:2015 and EN 60079-31:2014 except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign X is placed after the certificate number, it indicates that the product 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 and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:



II 2 G Ex db IIC T6...T4 Gb*

II 2 D Ex tb IIIC T135°C Db IP6X*

-**°C ≤ Ta ≤ +**°C

* Coding reflects the standard camera variant, refer to Section 15 for further information.

** Ambient temperature varies depending upon equipment configuration, refer to table in Section 13 for further details.

5-08-2019

Certificate issue date



Alessandro Savio
Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate is the transfer of the certificate issued by Intertek Testing & Certification Ltd. (NB 0359) having the same number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy



13. SCHEDULE

14. EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 16 ATEX 101021 X

15. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Camera Housing is constructed from stainless steel AISI316L with glass windows and designed to accommodate a range of CCTV cameras, infra-red cameras, lenses and associated ancillary equipment to allow their deployment in harsh environmental conditions. The housing has facilities for optional items such as window demister/heater, internal window wiper mechanism, integral window washer pump and external sunshield.

The unit is 260mm to 600mm in length (dependent on model) and is constructed from 139.7mm diameter cylindrical tube and 154mm diameter end covers. The unit has a cemented window assembly in one end cover, with the opposite end cover being either a blank end plate, end plate with up to three cable entries available in M20, M25, ½" or ¾" NPT thread forms. The cable entry to the camera housing is either via a cable entry adaptor in the side of the housing tube or via the tilt motor shaft attachment flange when mounted to a Pan/Tilt unit. When fitted with Germanium windows, for use with infra-red cameras, a protective guard plate is factory fitted on the window end cover and secured in place.

The Camera Housing has welded joints and is therefore to be subjected to routine overpressure tests. The IR model is fitted with an infrared LED Illuminator which is fitted in place of a camera.

The integrated Pan & Tilt Unit would be used in conjunction with the Camera Housing where installations require a moveable camera.

This Pan & Tilt Unit is also constructed from AISI316L stainless steel and can be fitted with either AC fixed speed or DC variable speed motors. The Pan & Tilt Unit with integral base mount is 300mm wide and 485mm high. There is one cable entry in the base mount which has one M25 threaded flame path. There are four spigot flame paths, two where the end covers fit into the housing and two where the motor/gearbox assemblies connect to the housing. In addition there are 2 cylindrical flame paths for the motor shafts allowing for the pan and tilt movement.

The Pan & Tilt Unit has welded joints and is therefore to be subjected to routine overpressure tests. An alternate base unit can also be provided with a M110x1.5 threaded cover for readily accessing wiring terminals. This is secured with a hexagonal grub screw.

Internal and external earthing points are provided.

Options are also available fitted with an optical output for data transmission purposes and antennas with associated barriers.

Only suitably certified cable glands, thread adaptors or blanking elements to be utilized as detailed on the certificate.

The coding the equipment is marked with is dependent upon the assembly configuration, internal power dissipation and optical accessories installed. A breakdown of the coding is given below.

Standard variants;

Ex db IIC T6...T4* Gb

Ex tb IIIC T135°C Db IP6X**

-##°C ≤ Ta ≤ +##°C



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Options fitted with fibre optic outputs are marked;
 Ex db op pr IIC T6...T4* Gb
 Ex tb op pr IIIC T135°C Db IP6X**
 -##°C ≤ Ta ≤ +##°C

LED illuminator module variants are marked;
 Ex db op is IIC T4* Gb
 Ex tb op is IIIC T135°C Db IP6X**
 -##°C ≤ Ta ≤ +##°C

All of the variants above may additionally be marked [Ex ia Ga], which refers to an intrinsically safe antenna connection. The antenna accessory has only been considered for use in the 20W versions of the camera. Refer to the Table below for the suitable ambient temperature ranges of equipment incorporating an antenna.

*Note: T class and ambient temp, is dependent on the assembly configuration and maximum internal power dissipation.

** Note: When fitted with an internal dissipation of 60W and upper ambient temperature of 70°C the maximum marked temperature should be marked T140°C.

The following table denotes the temperature classification for products which do not contain an antenna.

T-Class	Maximum Ambient Range [^]	Integrated Pan and Tilt		Standalone
		Pan & Tilts Max Watts Dis	Housing Max Watts Dis	Housing Max Watts Dis
T6	-60°C ≤ Ta ≤ +40°C	20 W	20 W	20 W
T5	-60°C ≤ Ta ≤ +40°C	40 W	40 W	40 W
T5	-60°C ≤ Ta ≤ +65°C	20 W	20 W	20 W
T4	-60°C ≤ Ta ≤ +65°C	60 W	60 W	60 W
T4	-60°C ≤ Ta ≤ +70°C	60 W	40 W	40 W
T4	-60°C ≤ Ta ≤ +70°C	50 W	50 W	50 W
T3	-60°C ≤ Ta ≤ +70°C	60 W	60 W	60 W
T3	-60°C ≤ Ta ≤ +70°C	60 W	60 W	60 W
Dust T135°C	-60°C ≤ Ta ≤ +65°C	60 W	60 W	60 W
Dust T140°C	-60°C ≤ Ta ≤ +70°C	60 W	60 W	60 W



13. SCHEDULE

14. EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 16 ATEX 101021 X

The following table contains lists the permitted upper ambient temperatures when using a certified RF barrier.

Barrier fitted	T-Class	Maximum Ambient Range [^]	Integrated Pan and Tilt		Standalone
			Pan & Tilts Max Watts Dis	Housing Max Watts Dis	Housing Max Watts Dis
Extronics & Solexy	T6	-40°C ≤ Ta ≤ +40°C	20 W	20 W	20 W
Extronics	T5	-40°C ≤ Ta ≤ +50°C	20 W	20 W	20 W
Solexy	T5	-40°C ≤ Ta ≤ +55°C	20 W	20 W	20 W
Extronics	Dust T135°C	-40°C ≤ Ta ≤ +50°C	20 W	20 W	20 W
Solexy	Dust T135°C	-40°C ≤ Ta ≤ +55°C	20 W	20 W	20 W

[^] The manufacturer has requested that this limit may be marked from the evaluated lower ambient to 0°C to ensure correct functionality of the equipment. This does not affect the protection offered by the enclosure.

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

16. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
EXD HOUSING, REAR CABLE ENTRY END COVER.	1420-20-001	006	7/12/15
EXD HOUSING, REAR MULTI CABLE ENTRY END COVER.	1420-20-501	001	7/12/15
1400-2400 HOUSING INTERNAL & EXTERNAL MOUNTING REQUIRMENTS	2400-1400-IEMR	002	7/12/15
FOR HOUSING AND P&T FLANGES OPTIONAL FLAMEPATH TOLERANCE	2410-MOD02	001	13/11/2014
2420 EXD INTERGRATED DC MOTOR PAN TILT, TWIN HEAD OPTION DRAWING	2420-TH	002	7/12/15
*CERTIFICATION DRAWINGS FOR ALL OXALIS HOUSINGS AND PAN AND TILT COMBINATIONS 12 Sheets	OXCT-0001	003	21/09/17
ATEX/IECEX CERTIFICATION LABEL DRAWINGS FOR UNITS WITH NO FIBRE OPTICS FITTED	OXCT-0002	5	08/09/16
ATEX/IECEX CERTIFICATION LABEL DRAWINGS FOR UNITS WITH FIBRE OPTICS FITTED	OXCT-0003	5	08/09/16
ATEX/IECEX CERTIFICATION LABEL DRAWINGS FOR ILLUMINATOR UNITS	OXCT-0004	5	08/09/16
ATEX/IECEX CERTIFICATION DETAILS FOR RADIO TRANSMISSION UNITS	OXCT-0005	002	06/04/16
ATEX/IECEX CERTIFICATION LABEL DRAWINGS FOR UNITS CONTAINING WIRELESS TRANSMISSION WITH IS BARRIER	OXCT-0006	4	08/09/16



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14. EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 16 ATEX 101021 X

TITLE	DOCUMENT Nr	LEVEL	DATE
1400 – 2400 Surface Finish	1400/2400Finishdoc	001	17/11/2014
FOR GEARBOX HOLE/SHAFT OPTIONAL FLAMEPATH TOLERANCE	2420-MOD01	001	04/11/2014
EX DUAL HOUSING TI WIPER GRILL	OX30-00366	001	15/08/2017

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

17. SPECIAL CONDITIONS FOR SAFE USE

- No modifications must be made to the flamepaths of the unit without consultation of the drawings listed on the schedule.
- Temperatures could exceed 70°C at the cable gland or 80°C at the branching point, suitably rated cable must be selected.
- Use only hex socket head fasteners with property class of A4-70 for securing end covers & shafts to housings.
- When fitted, the optical fibre output from the camera housing must always be terminated within a suitably certified enclosure or safe area.
- Only armoured cable or conduit is to be utilized when fitted with a fibre optic output in order to protect the fibre optic cable.
- Precautions must be taken to avoid dust from forming layers on the equipment.
- Antennas used with equipment shall be passive with a nominal impedance of 50Ω and have a minimum degree of protection of IP6X. If the antenna utilises a wire conductor the minimum diameter shall be 0.1mm. Alternatively if a track antenna is used, the tracking shall have a minimum width of 0.4mm
- The antenna circuit does not meet the dielectric strength requirements of Clause 6.3.13. Refer to the manufacturers' instruction manual for further details.
- Dual Imager Housing 2410-DI-04 and 2410-DI-05 variants only: Housings must only be installed in areas where there is a low risk of mechanical impact

18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 103256668CHE-001 dated December 2017.

19. ROUTINE (FACTORY) TESTS

- A routine overpressure test in accordance with IEC 60079-1:2014 Clause 16.1 shall be carried out on all enclosures, including all cemented window assemblies, at a pressure of 30.12bar for a period of between 10 and 60 seconds.
- There shall be no deformation or damage to the enclosures and no leakage through the cement of any of the window assemblies integrity of the welded construction shall also be verified during routine overpressure testing.



13. SCHEDULE

14. EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 16 ATEX 101021 X

- Empty enclosures may be tested.
- The individual parts of a flameproof enclosure (for example, cover and base) can be tested separately. The test conditions shall be such that the stresses are comparable to those to which these parts are exposed in the complete enclosure.
- If required during the construction, thread inserts needs to withstand the routine overpressure test also.

Details must be recorded and records maintained

20. DETAIL OF CERTIFICATE CHANGES

None



SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS16ATEX101021X R.1

13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Camera Housing is constructed from stainless steel AISI316L with glass windows and designed to accommodate a range of CCTV cameras, infra-red cameras, lenses and associated ancillary equipment to allow their deployment in harsh environmental conditions. The housing has facilities for optional items such as window demister/heater, internal window wiper mechanism, integral window washer pump and external sunshield.

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ATEX/IECEX CERTIFICATION DETAILS FOR RADIO TRANSMISSION UNITS	OXCT-0005	002	06/04/16
ATEX/IECEX CERTIFICATION LABEL DRAWINGS FOR UNITS CONTAINING WIRELESS TRANSMISSION WITH IS BARRIER	OXCT-0006	4	08/09/16



SCHEDULE

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TITLE	DOCUMENT Nr	LEVEL	DATE
1400 – 2400 Surface Finish	1400/2400Finishdoc	001	17/11/2014
FOR GEARBOX HOLE/SHAFT OPTIONAL FLAMEPATH TOLERANCE	2420-MOD01	001	04/11/2014
EX DUAL HOUSING TI WIPER GRILL	OX30-00366	001	15/08/2017
*2410 HOUSING WINDOW PROTECTIVE GUARD	2410-30-020	003	09/12/2012

Note: An * is included before the title of documents that are new or revised.

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIAL CONDITIONS FOR SAFE USE

- No modifications must be made to the flamepaths of the unit without consultation of the drawings listed on the schedule.
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- Dual Imager Housing 2410-DI-04 and 2410-DI-05 variants only: Housings must only be installed in areas where there is a low risk of mechanical impact.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104124702CHE-001 dated 03 December 2019.

17. ROUTINE (FACTORY) TESTS

- A routine overpressure test in accordance with IEC 60079-1:2014 Clause 16.1 shall be carried out on all enclosures, including all cemented window assemblies, at a pressure of 30.12bar for a period of between 10 and 60 seconds.
- There shall be no deformation or damage to the enclosures and no leakage through the cement of any of the window assemblies integrity of the welded construction shall also be verified during routine overpressure testing.



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- The individual parts of a flameproof enclosure (for example, cover and base) can be tested separately. The test conditions shall be such that the stresses are comparable to those to which these parts are exposed in the complete enclosure.
- If required during the construction, thread inserts needs to withstand the routine overpressure test also.

Details must be recorded and records maintained.

18. DETAIL OF CERTIFICATE CHANGES

R.1 (08-01-2020):

Update to include an alternative lens guard design (detailed on Sheet 3 of drawing OXCT-0001).

Drawing 2410-30-020 added back onto the certification drawing list to cover the original guard design as detailed on Sheet 3 of drawing OXCT-0001.