



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SIR 14.0105X issue No.:1

Certificate history:
Issue No. 1 (2016-3-11)
Issue No. 0 (2015-3-18)

Status: **Current**

Date of Issue: **2016-03-11** Page 1 of 4

Applicant: **Bartec Technor AS**
Dusavikveien 39
N-4007 Stavanger
Norway

Electrical Apparatus: **Orbit X Camera**
Optional accessory:

Type of Protection: **Intrinsic Safety and Optical Radiation**

Marking: Ex ib op is IIC T4 Gb
Ta = -20°C to +45°C

Approved for issue on behalf of the IECEx Certification Body: C Ellaby

Position: Deputy Certification Manager

Signature:
(for printed version)

PP 

Date: 2016-03-11

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 the Official IECEx Website.

Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden
Deeside
CH5 3US
United Kingdom

sira
CERTIFICATION





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Manufacturer: **Bartec Technor AS**
Dusavikveien 39
N-4007 Stavanger
Norway

Additional Manufacturing location
(s):

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
IEC 60079-28 : 2006-08 Edition: 1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*This Certificate **does not** indicate compliance with electrical 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/SIR/ExTR15.0084/00

GB/SIR/ExTR16.0049/00

Quality Assessment Report:

NO/NEM/QAR07.0003/07



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Orbit X is an intrinsically safe, video collaboration camera featuring HD video and audio communication, WiFi and Bluetooth connectivity, and an autofocus lens. It has a laser, LED flash and microphones as well as an external mini-jack and a micro-USB connection. The camera is used for wearable video recording and real-time two-way audio and video communication.

The OrbitX has the following intrinsically safe ports for user connection:

	USB	Headset
U _o	±8.4 V	±5.8 V
I _o	0.889 A	0.796911 A
P _o	0.933 W	1.156 W
C _o	1.35 µF	1.39 µF
L _o	3.06 µH	20.6 µH
Non-hazardous area connection: U _m	5.8 V	

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The ambient temperature range of the equipment is -20°C to +45°C.
2. The equipment shall be protected from contamination by liquid and dust; this is normally achieved by the operator carrying the device on their person.
3. The USB port may be used for charging the equipment when in the non-hazardous area only, using one of the following chargers specifically supplied for use with the unit:
 - Deltaco part number USB-AC35M (ambient for charging is 0°C to 45°C)
 - Ansmann part number 1001-0007 (ambient for charging is 0°C to 45°C)
 - GlobTek model number GT-41078-0505-USB (ambient for charging is 0°C to 45°C)
 - GlobTek model number GT-41078-0506-0.4-USB (ambient for charging is 0°C to 45°C)
 - Glob Tek model number GT*-46101-*05*-USB (ambient for charging is 0°C to 40°C)
 - Glob Tek model number GT*-46101-*06*-USB (ambient for charging is 0°C to 35°C)The maximum input voltage (U_m) from the charger between the lines is 5.8 V.
4. The USB port is also used for data download in the non-hazardous area only. The port has been assessed with a U_m of 5.8 V and shall be installed in accordance with clause 16.2.1 of IEC 60079-14:2013



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 – this Issue introduced the following changes:

- 1 Additional chargers are approved and listed in the user conditions;
- 2 An alternative housing for the laser was recognised
- 3 The marking method is changed from a self-adhesive label to engraving.