


Type Examination Certificate

for Electrical Equipment used in Potentially Explosive Atmosphere

Issued by Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK	
Applicant	Bartec Pixavi AS Vestre Svanholmen 24, 4313 Sandnes, Norway
Manufacturer name	Bartec Technor AS Dusavikveien 39, N-4007 Stavanger, Norway
Product name	Camera
Type/model code	Orbit X EX
Type of protection	Intrinsic Safety (ib), Inherently Safe Optical Radiation (op is)
Group, Temperature Class and EPL	IIC, T4, Gb
The equipment shall be marked with the following	Ex ib op is IIC T4 Gb, Ta = -20 °C to +45 °C
Ratings	See Appendix 1
Special condition for safe use	See Appendix 2
Certificate number	CML 18JPN2059X
Term of validity	From 13-04-2018 to 12-04-2021 

This is to certify that the equipment specified above complies with the requirements stipulated in Ordinance on Examination of Machines and Other Equipment of the Ministry of Health, Labour and Welfare, Japan.

Issue date: 13-04-2018

Signature of examiner:



Appendix 1: Ratings:

	USB	Headset
Uo	±8.4 V	±5.8 V
Io	0.889 A	0.796911 A
Po	0.933 W	1.156 W
Co	1.35 μF	1.39 μF
Lo	3.06 μH	20.6 μH
Non-hazardous area connection (Um):	5.8 V	

Appendix 2: Special Conditions for Safe Use:

- i. The ambient temperature range of the equipment is -20 °C to +45 °C.
- ii. The equipment shall be protected from contamination by liquid and dust; this is normally achieved by the operator carrying the device on their person.
- iii. 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)
 - GlobTek model number GT*-46101-*05*-USB (ambient for charging is 0 °C to 40 °C)
 - GlobTek model number GT*-46101-*06*-USB (ambient for charging is 0 °C to 35 °C)

The maximum input voltage (Um) from the charger between the lines is 5.8 V.

- iv. The USB port is also used for data download in the non-hazardous area only. The port has been assessed with a Um of 5.8 V and shall be installed in accordance with:

Electrical equipment connected to the non-intrinsically safe terminals of an associated apparatus shall not be fed with a voltage supply greater than Um shown on the label of the associated apparatus. The prospective short-circuit current of the supply shall not be greater than 1,500 A.

Limitation of the prospective short-circuit current, where higher fault levels exist, may be achieved by appropriate upstream fusing or protection.

Where Um marked on the associated apparatus is less than 250 V it shall be installed in accordance with one of the following:



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- a) where U_m does not exceed 50 V a.c. or 120 V d.c., in a SELV or PELV system, or
- b) via a safety isolating transformer complying with the requirements of IEC 61558-2-6, or technically equivalent standard, or
- c) directly connected to apparatus complying with the IEC 60950 series, IEC 61010-1, or a technically equivalent standard, or
- d) fed directly from cells or batteries.