



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 11.0071X Issue No: 0 Certificate history:
Issue No. 0 (2012-07-25)

Status: **Current** Page 1 of 4

Date of Issue: **2012-07-25**

Applicant: **ABTECH Limited**
5 Sanderson Street
Sheffield S9 2UA
United Kingdom

Electrical Apparatus: **VisEx Camera Housing**
Optional accessory:

Type of Protection: **Flameproof and Dust Protection by Enclosure**

Marking:
Ex d IIC T* Gb
Ex tb IIIC T* ° C Db IP6X
Ta = -60 °C to +65°C*
* Refer to EQUIPMENT (continued)

*Approved for issue on behalf of the IECEx
Certification Body:*

C Ellaby

Position:

Deputy Certification Manager

*Signature:
(for printed version)*

Date:

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](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
Rake Lane
Ecclestone
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



IECEx Certificate of Conformity

Certificate No: IECEx SIR 11.0071X

Issue No: 0

Date of Issue: 2012-07-25

Page 2 of 4

Manufacturer: **ABTECH Limited**
5 Sanderson Street
Sheffield S9 2UA
United Kingdom

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 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"

*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/ExTR12.0183/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0046/03](#)



IECEx Certificate of Conformity

Certificate No: IECEx SIR 11.0071X

Issue No: 0

Date of Issue: 2012-07-25

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The equipment is a flameproof and dust protected VisEx Camera Housing that accommodates a camera together with associated equipment rated up to 60 V DC.

The VisEx Housing comprises a cylindrical threaded main body and a cylindrical threaded front body both manufactured from stainless steel, a glass window is secured by a threaded, stainless steel retaining ring. It is provided with two, metric threaded, cable entries, each for the accommodation of a suitably certified, cable entry device with or without the interposition of a suitably certified, thread adapter. A mounting bracket is fitted internally to accommodate the camera and its associated equipment, threaded external holes are provided for the fitting of mounting brackets. The main body and front body are screwed together and secured with a locking arrangement incorporating a stainless steel M3 grub screw provided on the periphery of the front body to prevent unauthorised removal. An O-ring is provided between the main and front body and in the window arrangement to provide a degree of ingress protection IP6X.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The equipment shall be installed such that it is protected from a high risk of mechanical danger.
2. The equipment is not provided with an external earth facility and therefore shall only be connected to wiring systems that do not require an external earth connection to be provided.
3. Only the connection facilities provided with the internal components are to be used for the connection of the equipment.
4. The equipment incorporates a flameproof spigot joint formed between the glass window and the front body which has dimensions which are other than the relevant maximum or minimum in Table 2 in EN 60079-1 as shown below:

Part of spigot joint	Minimum width [mm]	Maximum clearance/gap [mm]
Plain part	7.325	0.1
Cylindrical part	8.9	0.15

Users shall take these dimensions into account where necessary during maintenance of the equipment.



IECEx Certificate of Conformity

Certificate No: IECEx SIR 11.0071X

Issue No: 0

Date of Issue: 2012-07-25

Page 4 of 4

EQUIPMENT (continued):

The following table details the power ratings of the equipment together with the essential temperature limitations that apply to these ratings.

Max. ambient temperature	Max. power rating	Temperature classification	Max. external surface temperature for dust	Cable entry temperature warning applied to label
40°C	8 W	T6	T55°C	Not required
55°C	8 W	T6	T70°C	Not required
65°C	8 W	T6	T80°C	Cable entry temperature may reach 80°C, cabling to be suitable
40°C	47 W	T4	T105°C	Cable entry temperature may reach 105°C, cabling to be suitable
55°C	47 W	T4	T120°C	Cable entry temperature may reach 120°C, cabling to be suitable
65°C	47 W	T4	T130°C	Cable entry temperature may reach 130°C, cabling to be suitable

Conditions of manufacture

The Manufacturer shall comply with the following:

1. The equipment is not provided with an internal earth facility and therefore shall only be fitted with internal components which do not require to be connected to an earth facility.
2. The installation of the camera and associated equipment within the VisEx Camera Housing is the responsibility of the manufacturer.