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 CQM 16.0008X	Issue No: 0	Certificate history: Issue No. 0 (2016-07-15)
Status:	**Current**	Page 1 of 3	
Date of Issue:	**2016-07-15**		
Applicant:	**Warom Technology Incorporated Company** No.555, Baoqian Road, Jiading District, Shanghai, 201808, **China**		
Equipment: *Optional accessory:*	**Searchlight HRD309E**		
Type of Protection:	**Type of protection "n", Protection by enclosure "t"**		
Marking:	Ex nA nR IIC T4 Gc; Ex tb IIIC T80°C Db IP66 Tamb: -40°C ~ +60°C		

Approved for issue on behalf of the IECEx Certification Body: Ji Xiaodong

Position: General Manager

Signature:
(for printed version)

Date: 2016-07-15

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:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District,
Beijing City, Postal code: 100048
China

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Manufacturer:	**Warom Technology Incorporated Company** No.555, Baoqian Road, Jiading District, Shanghai, 201808, **China**	
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 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	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:

CN/CQM/ExTR16.0011/00

Quality Assessment Report:

CN/CQM/QAR07.0003/05

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

HRD309E searchlight is of type "nA", "nR" and type "tb". The light source cavity is a non-sparking low ExTR Reference No. TRF No. ExTR Cover_5 Page 3 of 4 power equipment with type nA. The battery cavity is a restricted breathing equipment with type nR. The enclosure material is aluminium alloy. The material of light transmitting part is toughened glass. It is comprised of a handle, a lamp holder shell, a lamp holder cover, a light-transmitting part, and a battery cavity. LED light sources are in the light source compartment. A driven board and a pack of battery are installed in the battery cavity, a M8 hole with plug in the closure of battery cavity is used for restricted breathing test. The cable entry part of each compartment is encapsulated by E44 epoxy resin.

Rating

Rated voltage: DC 14.8V
Rated power: 9W/3W
Type of battery: 14.8V, 2Ah

CONDITIONS OF CERTIFICATION: YES as shown below:

1. This searchlight can only be repaired and battery replaced by professionals in safety area.
2. Do not charge in a hazardous area.
3. Do not open when an explosive atmosphere may be present.
4. Used in an area of not more than pollution degree 2, as defined in IEC 60664-1.