



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX SIR 20.0048X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2021-05-11  
Applicant: **Dongguan Pan American Electronics Co., Ltd.**  
No.175 BeiWang Road  
Zhongtang Town  
DongGuan City, GuangDong Province 523227  
China  
Equipment: **Remote Area Lighting System, Model: EX-MV01**  
Optional accessory:  
Type of Protection: **Intrinsic Safety "ia"**  
Marking: Ex ia IIC T4 Ga

Approved for issue on behalf of the IECEx  
Certification Body:

**Neil Jones**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

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

**sira**  
CERTIFICATION





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Manufacturer: **Dongguan Pan American Electronic Co.,Ltd.**  
No.175 BeiWang Road, Zhongtang Town  
DongGuan City, GuangDong Province 523227  
**China**

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with 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/ExTR21.0051/00](#)

Quality Assessment Report:

[CN/NEP/QAR19.0007/04](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

EX-MV01 Remote Area Lighting System is a portable lamp and it consists a non-metallic anti-static shell and aluminium alloy lamp housing. In the shell there are a rechargeable battery pack and a terminal block housing, where the battery charging protection board is fixed inside. In the lamp housing the LED light source board is fixed inside. The product contains LEDs on the LED light source board that are considered as non-array divergent LEDs and these LEDs are to be excluded base on Clause 1 of IEC 60079-28.

The only external connection on the equipment is a charging socket for the charger input on the shell of the equipment. The equipment is only to be charged outside the hazardous area.

The battery pack is comprised of nine series nickel metal hydride cells at 1.2V nominal, each with capacity of 9000mAh.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. The EX-MV01 Remote Area Lighting System shall only be charged in safe area using a charger approved as SELV or Class 2 equipment against IEC 60950 or an equivalent IEC standard. You may discuss with the manufacturer for the suitable battery charger for this equipment. The maximum voltage and current from the charger  $U_m$  and  $I_m$  shall not exceed 16.0 Vdc and 1.8A respectively. The ambient temperature during charging shall be in the range 0°C to 40°C.
2. The lamp housing is manufactured from Aluminium and may be used at the accessible surface of the equipment. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered when the Remote Area Lighting System is being used in Zone 0 locations for group II level of protection Ga.