



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

Certificate No.: IECEx ITS 16.0045X

Issue No: 1

Certificate history:

Issue No. 1 (2017-06-27)

Issue No. 0 (2016-08-12)

Status: **Current**

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Date of Issue: **2017-06-27**

Applicant: **Bayco Products, Inc.**  
640 S. Sanden Blvd.  
Wylie,  
TX 75098  
**United States of America**

Equipment: **I.S. LED Rechargeable Dual Task Light, model XPR-5522GM**

*Optional accessory:*

Type of Protection: **Ex ia, Ex op is**

Marking:

Ex ia op is IIC T3 Ga

-10°C ≤ Ta ≤ +40°C, IP54

IECEX ITS 16.0045X

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

V K Varma

*Position:*

Certification Officer

*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:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road,  
Leatherhead,  
Surrey, KT22 7SB  
United Kingdom





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Manufacturer: **Bayco Products, Inc.**  
640 S. Sanden Blvd.  
Wylie,  
TX 75098  
**United States of America**

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** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

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

**IEC 60079-28 : 2006-08** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:1

*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/ITS/ExTR16.0046/00](#) [US/ETL/ExTR17.0041/00](#)

### Quality Assessment Report:

[GB/ITS/QAR13.0005/03](#) [GB/ITS/QAR13.0005/04](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The product covered by this certificate is a portable I.S. Dual-Light Rechargeable Flashlight. It consists of a flashlight and a floodlight. Both lights can also be turned on simultaneously in a dual-light mode. The Nightstick dual task light is powered by one rechargeable lithium battery of 3.8V (Samsung ICR18650-26F) which is inside a battery pack. Battery is the only source of power to the dual task light. Battery is charged using a charging station in a non-hazardous area. Charging station is not a part of evaluation and there are appropriate warnings that state that the product shall be charged in the non-hazardous area.

The entity parameters of the charging contacts of the flashlight are as follows:

$U_i = 4.75V$ ,  $I_i = 500mA$ ,  $L_i = 0.0 \mu H$ ,  $C_i = 0.0 \mu F$ ,  $P_i = 0.59W$

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

The capacitance of two magnets and the side clip exceeds 3pF for Group IIC.

The user shall determine the suitability of the equipment in the end application. The capacitance measured was as follows:

Metal Part Measured Capacitance in pF:

Magnet on the base of enclosure 4.03

Magnet on the side of enclosure 3.1

Side Clip on enclosure 4.3



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

A new model, XPR-5522GMX has been added where the suffix 'X' denotes that the product has a black bezel and black clip rather than the green bezel and green clip from the original model.



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**Additional information:**

**Annex:**

[Annex for CoC IECEX ITS 16.0045X, Issue 1.pdf](#)

[Annex for CoC IECEX ITS 16.0045X.pdf](#)



# IECEX Certificate of Conformity

<b>Certificate No:</b>	<b>IECEX ITS 16.0045X</b>	<b>Issue No. 1</b>
<b>Annex No. 0</b>		

## Manufacturer's documents

Drawings associated with Issue 1 of this certificate:

Title:	Drawing No.:	Rev. Level:	Date:
Top Level Design File (Total sheets = 1)	5522-GENL-MAST-00	B	01/30/2017
Certification Master Design File(Total sheets=3)	5522-CERT-DWG1-01	B	01/30/2017
Electrical Master Design File (Total sheets = 10)	5522-ELEC-DWG1-01	B	01/30/2017
Mechanical Master Design File (Total sheets=8)	5522-MECH-DWG1-01	B	01/30/2017

Certificate issued by:

**Intertek**  
3933 US Route 11 South  
Cortland NY 13045-2995  
United States of America





# IECEX Certificate of Conformity

<b>Certificate No:</b>	<b>IECEX ITS 16.0045X</b>	<b>Issue No. 0</b>
<b>Annex No. 0</b>		

## Manufacturer's documents

Drawings associated with Issue 0 of this certificate:

Title:	Drawing No.:	Rev. Level:	Date:
Top Level Design File (Total sheets = 1)	5522-GENL-MAST-00	A	02/15/2015
Certification Master Design File (Total sheets=3)	5522-CERT-DWG1-01	A	02/15/2015
Electrical Master Design File (Total sheets = 10)	5454-ELEC-DWG1-01	A	02/15/2015
Mechanical Master Design File (Total sheets=8)	5454-MECH-DWG1-01	A	02/15/2015

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