



Instruction Manual

XPP-5422B/G

THANK YOU FOR SELECTING THE NIGHTSTICK XPP-5422B/G
INTRINSICALLY SAFE DUAL-LIGHT FLASHLIGHT!

PLEASE SAVE THESE INSTRUCTIONS

Please read these instructions before using your Nightstick XPP-5422B/G Intrinsically Safe Dual-Light Flashlight. They include important safety information and operating instructions.

THE XPP-5422B/G IS APPROVED FOR USE

Permissible Nightstick 5422 Flashlight/Floodlight



APPROVAL No. 20-A130001-0

TESTED FOR INTRINSIC SAFETY IN METHANE-AIR MIXTURES ONLY

- WARNINGS:
- 1) MSHA approved for use with three AA Duracell Type PC1500, Energizer Type EN91, and Energizer Type L91 batteries only.
 - 2) Replace the batteries in fresh air only and replace all batteries at the same time. Do not mix batteries from different manufacturers or of different types.
 - 3) Energizer Lithium (Type L91) batteries are to be replaced by a qualified technician only.
 - 4) The Model Nightstick 5422 must not be opened in areas where permissibility is required.



Intertek
ID 4003544
INTRINSICALLY SAFE
SECURITE INTRINSEQUE

CLASS I DIV 1 GRPS A-D T3	Ex ia I Ma
CLASS II & III DIV 1 GRPS E-G T135C	Ex ia IIC T3 Ga
CLASS I ZONE 0 AEx ia IIC T3 Ga	Intertek ITS 13 ATEX27837X
CLASS I ZONE 0 Ex ia IIC T3 Ga	IECEx ETL 13.0026X
Ⓜ I M 1 Ex ia I Ma	-20°C ≤ Tamb ≤ +40°C
Ⓜ II 1 G Ex ia IIC T3 Ga	1.5V/Cell AA Alkaline



Conforms to:

ANSI/UL STD 913, ANSI/UL
60079-0, ANSI/UL 60079-11
ANSI/ISA 60079-26

Certified to:

CAN/CSA STD C22.2 No 157
CAN/CSA STD C22.2 No 60079-0
CAN/CSA STD C22.2 No 60079-11
CSA STD C22.2 No 25

WARNINGS - INTRINSICALLY SAFE

- Warning: Use only the approved non-rechargeable batteries listed below.
- Warning: Do NOT attempt to use rechargeable AA batteries with this light.
- Warning: To prevent ignition of a hazardous atmosphere, do not open the lens bezel in the hazardous environment. This task must ONLY be performed in an area known to be non-hazardous.
- Warning: When exchanging batteries, use only Duracell PC1500, Energizer EN91 or Energizer L91 batteries.
- Warning: To prevent ignition of a hazardous atmosphere, the AA batteries must only be exchanged in an area known to be non-hazardous.
- Warning: To reduce the risk of explosion, do not mix new non-rechargeable batteries with used non-rechargeable batteries, or mix non-rechargeable batteries from different manufacturers.
- Warning: Substitution of components may impair intrinsic safety.

SPECIAL INSTRUCTIONS FOR INTRINSIC SAFETY

- For personal safety, always confirm the rating of any known hazardous or potentially hazardous location where the light is to be used.



BATTERY INSTALLATION

WARNING: In order to maintain the XPP-5422B/G's Intrinsically Safe rating, the only AA batteries certified for use with this light are the Duracell PC1500, Energizer EN91 or Energizer L91 batteries.

- Do not attempt to use any other brand or model of AA batteries with this light.
- Do not attempt to use any type of rechargeable AA batteries with this light.

Warning: To prevent ignition of a hazardous atmosphere, do not remove the lens bezel or the reflector / battery carrier in the hazardous environment. This task must ONLY be done in an area known to be non-hazardous.

- Loosen the locking screw located on the side of the lens cap. NOTE: Do NOT attempt to completely remove the locking screw. Doing so is not necessary and may damage the threads. The screw simply needs to be loosened enough to allow the lens bezel to unscrew.
- Unscrew the lens bezel from the housing in a counter-clockwise direction.
- Turn the light upside down and carefully shake the light in order to remove the reflector / battery carrier. Allow the reflector / battery carrier to slide into your hand. WARNING: Do NOT touch the reflector surface with your finger. Doing so may damage the reflector surface.
- Using 3 – AA Duracell PC1500, Energizer EN91 or Energizer L91 batteries (make sure that all 3 batteries are of the same model), install the batteries in the carrier paying close attention to the markings on the battery carrier for proper battery terminal polarity alignment.
- Align the reflector / battery carrier so that the switches on the carrier are aligned with the switches on the housing. Carefully insert the reflector / battery carrier back into the flashlight housing until it is fully seated in the housing. WARNING: Be careful to not touch the reflector surface with your finger. Doing so may damage the reflector surface.
- Replace the lens bezel by screwing it onto the housing in a clockwise direction.
- Tighten locking screw. CAUTION: Do NOT over-tighten. Doing so may damage the threads and impact the light's Intrinsic Safety.

OPERATION

THE XPP-5422B/G HAS FOUR SEPARATE LIGHTING MODES:

- Momentary Flashlight
- Constant-on Flashlight
- Floodlight
- Dual-Light (both the Flashlight and Floodlight on at the same time)

MOMENTARY FLASHLIGHT MODE

Lightly press the top body switch for momentary operation. Release the switch to turn the light off.

CONSTANT-ON FLASHLIGHT MODE

Press the top body switch until it clicks and then release for constant-on mode. Press and release the top body switch again to turn the light off.

FLOODLIGHT MODE

Press the bottom body switch until it clicks and then release for floodlight mode. Press and release the bottom body switch again to turn the light off.

DUAL-LIGHT MODE

Dual-Light allows the user to turn on both the Flashlight and the Floodlight, at the same time. Press the top body switch until it clicks and then release for constant-on mode Flashlight Mode. Next press and release the bottom switch to activate the Floodlight. Both the Flashlight and the Floodlight are now running. Press and release both the top and bottom body switches to turn the lights off.

WARRANTY

LIMITED LIFETIME WARRANTY

Bayco Products, Inc. warrants this product to be free from defects in workmanship and materials for the original purchaser's lifetime. The Limited Lifetime Warranty includes the LEDs, housing and lenses. Rechargeable batteries, chargers, switches, electronics and included accessories are warranted for a period of two years with proof of purchase. Disposable, non-rechargeable batteries are excluded from this warranty. Normal wear and failures which are caused by accidents, misuse, abuse, faulty installation and lightning damage are also excluded.

In the event that Bayco Products, Inc. receives notice that any product does not conform to its warranty, the original purchaser's sole and exclusive remedy, and Bayco Products, Inc.'s sole and exclusive liability, shall be for Bayco Products, Inc., at its sole option, to either repair or replace the non-conforming product in accordance with this limited warranty. The original purchaser shall follow the instructions below to qualify for a repair or replacement product. This is the only warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose.

IN NO EVENT WILL BAYCO PRODUCTS, INC. OR ITS AFFILIATES OR SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE. THE TOTAL CUMULATIVE LIABILITY TO CUSTOMER, FROM ALL CAUSES OF ACTION AND ALL THEORIES OF LIABILITY, WILL BE LIMITED TO AND WILL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT PAID BY CUSTOMER.

If this product is used for rental purposes, the warranty term is reduced to 90 days from the date of purchase.

WARRANTY CLAIMS – USA

Return the product to the place of purchase for all warranty related issues. If this is not possible, contact Bayco Customer Service for a Return Goods Authorization (RGA). Do not return this product to Bayco without first receiving an RGA Number from Bayco Customer Service. When returning the product, the RGA Number must be written on the outside of the shipping box.

WARRANTY CLAIMS – OUTSIDE OF USA

Return the product to the place where purchased for all warranty related issues.

EXTENT OF COVERED WARRANTY WORK

Bayco will repair or replace this product at our option. If it is determined that the warranty is no longer in effect, Bayco will contact you with a repair estimate before beginning any work.

WARRANTY QUESTIONS

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XPP-5422G

Intrinsically Safe Permissible Dual-Light™ Flashlight

MARKET APPLICATIONS

Hazardous work environments, industrial, automotive, law enforcement, fire & rescue

DESCRIPTION

This non-rechargeable Dual-Light™ flashlight is cETLus, ATEX, IECEx and MSHA listed Intrinsically Safe Permissible. It uses as CREE® LED rated at 120 lumens that works in conjunction with a high-efficiency deep parabolic reflector to create a usable flashlight beam rated at 170 meters. A 120 lumens unfocused floodlight is integrated into the housing which is perfect for close-up illumination. Additionally both the flashlight and the floodlight can be turned on at the same time for maximum versatility and safety. The dual body switches provide momentary or constant-on functionality for the flashlight and on/off functionality for the floodlight. Power comes from 3 AA premium batteries (not included).

CASE MATERIAL

Engineered Polymer - Green

DIMENSIONS

Length: 7.0 inches (178 mm) • Head Diameter: 1.8 inches (46 mm) • Handle Diameter: 1.0 x 1.5 inches (25 x 38 mm)

WEIGHT

Weight: 6.9 oz. (196 g) with batteries installed

LENS

Unbreakable polycarbonate with scratch resistant coating

LIGHT SOURCE

Flashlight: CREE® LED Impervious to shock with a 50,000 hour lifetime

LIGHT OUTPUT

Flashlight: 120 lumens, Floodlight: 120 lumens, Dual-Light: 240 lumens

ON/OFF

Dual Body Switch - Momentary or Constant-on Flashlight, Constant-on Floodlight

RUN-TIME

Flashlight: 17.5 hours, Floodlight: 17.5 hours, Dual-Light: 4.5 hours

BATTERY

3 Alkaline AA batteries (not included)

FEATURES

- cETLus, ATEX, IECEx and MSHA listed Intrinsically Safe Permissible
- Flashlight – Floodlight – Dual-light™
- CREE® LED technology – 50,000 + hours LED life
- Momentary or constant-on flashlight
- Sharp focused flashlight beam for distance illumination
- Unfocused wide-beam floodlight for close-up illumination
- Dual-light (flashlight & floodlight at same time) for maximum versatility
- Engineered polymer housing
- Non-slip grip
- Dual body switches
- Waterproof
- Impact & chemical resistant
- Built-in pocket/belt clip & removable lanyard
- Requires 3 AA batteries

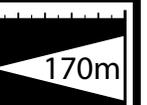
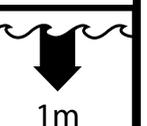
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CE 0359	
Conforms to: ANSI/UL STD 913, ANSI/UL 60079-0, ANSI/UL 60079-11 ANSI/ISA 60079-26	Certified to: CAN/CSA STD C22.2 No 157 CAN/CSA STD C22.2 No 60079-0 CAN/CSA STD C22.2 No 60079-11 CSA STD C22.2 No 25

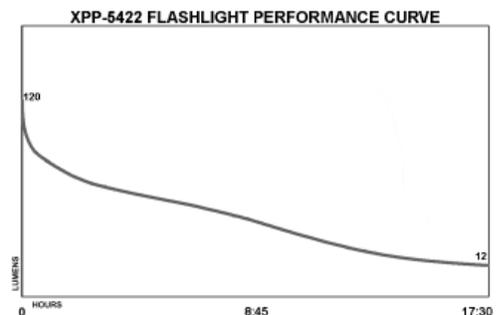
WARRANTY

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APPROVALS



FL 1 STANDARD		
 120 LUMENS	 17h 30min	 170m
 7250cd	 2m	 1m



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WARRANTY QUESTIONS

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Nightstick Product Battery Replacement Information

Product Part Number	How to Open Battery Compartment	Tool Required	Battery Type & Quantity	Replacing AA, AAA or AAAA Alkaline w/ Rechargeable	Replacing CR-123 w/ Rechargeable	Battery Carrier Required	Nightstick Rechargeable Upgrade Option	Nightstick Rechargeable Replacement Battery	Intrinsically Safe Certification Alkaline Battery Requirements**
FDL-300R	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
FDL-300R-K01	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
MT-100	Unscrew Tail Cap	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-100BL	Unscrew Tail Cap	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-100CTD	Unscrew Tail Cap	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-100R	Unscrew Tail Cap	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-110	Unscrew Tail Cap	None	1 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-120	Unscrew Tail Cap	None	2 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-130	Unscrew Tail Cap	None	2 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-140B	Unscrew Tail Cap	None	2 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-200	Unscrew Tail Cap	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-210	Unscrew Tail Cap	None	1 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-220	Unscrew Tail Cap	None	2 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-230	Unscrew Tail Cap	None	1 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MT-90	Unscrew Tail Cap	None	1 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MTU-106	Unscrew Tail Cap	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
MTU-136	Unscrew Tail Cap	None	2 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1102A	Slide Battery Cover toward base of light	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1136	Slide Battery Cover toward base of light	None	4 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1162	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1164	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1166	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1168	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only	N/A	No	No	N/A	N/A

Product Part Number	How to Open Battery Compartment	Tool Required	Battery Type & Quantity	Replacing AA, AAA or AAAA Alkaline w/ Rechargeable	Replacing CR-123 w/ Rechargeable	Battery Carrier Required	Nightstick Rechargeable Upgrade Option	Nightstick Rechargeable Replacement Battery	Intrinsically Safe Certification Alkaline Battery Requirements**
NSP-1170	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1172	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1174	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1174-K01	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1176	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1178	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1180	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1206B	Slide Battery Cover toward base of light	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1206R	Slide Battery Cover toward base of light	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1224B	Slide Battery Cover toward base of light	None	4 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1224CTD	Slide Battery Cover toward base of light	None	4 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1224R	Slide Battery Cover toward base of light	None	4 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1236	Slide Battery Cover toward base of light	None	4 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1260	Slide Battery Cover toward base of light	None	4 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1310CTD	Unscrew Cap at base of light	None	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1310RM	Unscrew Cap at base of light	None	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1312RM	Unscrew Cap at base of light	None	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1400B	Slide Battery Cover toward base of light	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1400R	Slide Battery Cover toward base of light	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1400T	Slide Battery Cover toward base of light	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1402B	Slide Battery Cover toward base of light	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1404B	Slide Battery Cover toward base of light	None	2 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-1632	Unscrew Cap at base of light	None	3 - AAA	NiCad or NiMH Only*	N/A	AAA Carrier	No	N/A	N/A
NSP-1634	Unscrew Cap at base of light	None	3 - AAA	NiCad or NiMH Only*	N/A	AAA Carrier	No	N/A	N/A

Product Part Number	How to Open Battery Compartment	Tool Required	Battery Type & Quantity	Replacing AA, AAA or AAAA Alkaline w/ Rechargeable	Replacing CR-123 w/ Rechargeable	Battery Carrier Required	Nightstick Rechargeable Upgrade Option	Nightstick Rechargeable Replacement Battery	Intrinsically Safe Certification Alkaline Battery Requirements**
NSP-1636	Unscrew Cap at base of light	None	3 - AAA	NiCad or NiMH Only*	N/A	AAA Carrier	No	N/A	N/A
NSP-2422B	Unscrew Bezel and slide Reflector/LED Module out	None	3 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-2422R	Unscrew Bezel and slide Reflector/LED Module out	None	3 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-410	Unscrew Tail Cap	None	1 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-420	Unscrew Tail Cap	None	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-430	Unscrew Tail Cap	None	2 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4602B	Loosen fitting on back of head & rotate door downward	Slotted Screwdriver Screwdriver	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4603B	Loosen fitting on back of head & rotate door downward	None	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4604B	Loosen fitting on back of head & rotate door downward	Slotted Screwdriver Screwdriver	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4605B	Loosen fitting on back of head & rotate door downward	None	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4606B	Loosen fitting on back of head & rotate door downward	None	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4608B	Loosen fitting on back of head & rotate door downward	Slotted Screwdriver	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4608BC	Loosen fitting on back of head & rotate door downward	Slotted Screwdriver	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4610B	Loosen fitting on back of head & rotate door downward	Slotted Screwdriver	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4612B	Loosen fitting on rear battery compartment & rotate door downward	None	3 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4614B	Loosen fitting on back of head & rotate door downward	None	3 - AAA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4616B	Loosen fitting on rear battery compartment & rotate door downward	Phillips Screwdriver	3 - AA	NiCad or NiMH Only*	N/A	No	No	N/A	N/A
NSP-4650B	Loosen fitting on back of light & rotate door downward	Slotted Screwdriver	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
NSP-9842XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	9842-CARRIER	9844-BATT Only	N/A	N/A
NSR-9844XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	9842-CARRIER	No	9844-BATT Only	N/A
NSR-9854XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	9842-CARRIER	No	9844-BATT Only	N/A
TAC-300B	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
TAC-300B-K01	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
TAC-300T	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A

Product Part Number	How to Open Battery Compartment	Tool Required	Battery Type & Quantity	Replacing AA, AAA or AAAA Alkaline w/ Rechargeable	Replacing CR-123 w/ Rechargeable	Battery Carrier Required	Nightstick Rechargeable Upgrade Option	Nightstick Rechargeable Replacement Battery	Intrinsically Safe Certification Alkaline Battery Requirements**
TAC-300Y	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
TAC-302B	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
TAC-302B-K01	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
TAC-310XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
TAC-350B	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
TAC-360XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	No	No	N/A	N/A
TAC-400B	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	400-BATT Only	N/A
TAC-400T	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	400-BATT Only	N/A
TAC-400Y	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	400-BATT Only	N/A
TAC-410XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	560-BATT Only	N/A
TAC-450B	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	400-BATT Only	N/A
TAC-460XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	560-BATT Only	N/A
TAC-460XL-K01	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	560-BATT Only	N/A	N/A
TAC-500B	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	400-BATT Only	N/A
TAC-500T	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	400-BATT Only	N/A
TAC-500Y	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	400-BATT Only	N/A
TAC-510XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	560-BATT Only	N/A
TAC-540XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	560-BATT Only	N/A	N/A
TAC-550B	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	560-BATT Only	N/A
TAC-560XL	Unscrew Tail Cap	None	2 - CR-123	N/A	No, will damage product	500-CARRIER	No	560-BATT Only	N/A
XPP-5410G	Unscrew Tail Cap	Phillips Screwdriver	2 - AAA	Invalidates IS Certification	N/A	No	No	N/A	Energizer E92, Energizer EN92 Duracell MX2400, Duracell PC2400 or Duracell EN92
XPP-5412G	Unscrew Tail Cap	Phillips Screwdriver	3 - AAAA	Invalidates IS Certification	N/A	No	No	N/A	Duracell MX2500 or Energizer E96
XPP-5420B	Loosen Bezel Screw, unscrew Bezel and slide Reflector/LED Module out	Phillips Screwdriver	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91
XPP-5420G	Loosen Bezel Screw, unscrew Bezel and slide Reflector/LED Module out	Phillips Screwdriver	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91

Product Part Number	How to Open Battery Compartment	Tool Required	Battery Type & Quantity	Replacing AA, AAA or AAAA Alkaline w/ Rechargeable	Replacing CR-123 w/ Rechargeable	Battery Carrier Required	Nightstick Rechargeable Upgrade Option	Nightstick Rechargeable Replacement Battery	Intrinsically Safe Certification Alkaline Battery Requirements**
XPP-5420GX	Loosen Bezel Screw, unscrew Bezel and slide Reflector/LED Module out	Phillips Screwdriver	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91
XPP-5422B	Loosen Bezel Screw, unscrew Bezel and slide Reflector/LED Module out	Phillips Screwdriver	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91
XPP-5422G	Loosen Bezel Screw, unscrew Bezel and slide Reflector/LED Module out	Phillips Screwdriver	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91
XPP-5422GX	Loosen Bezel Screw, unscrew Bezel and slide Reflector/LED Module out	Phillips Screwdriver	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91
XPP-5422GM	Loosen Bezel Screw, unscrew Bezel and slide Reflector/LED Module out	Phillips Screwdriver	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91
XPP-5422GMX	Loosen Bezel Screw, unscrew Bezel and slide Reflector/LED Module out	Phillips Screwdriver	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91
XPP-5450G	Loosen fitting on back of head & rotate door downward	Phillips Screwdriver	3 - AAA	Invalidates IS Certification	N/A	No	No	N/A	Energizer E92 or Energizer EN92
XPP-5452G	Loosen fitting on back of head & rotate door downward	Phillips Screwdriver	3 - AAA	Invalidates IS Certification	N/A	No	No	N/A	Energizer E92 or Energizer EN92
XPP-5454G	Loosen fitting on back of head & rotate door downward	Slotted Screwdriver	3 - AAA	Invalidates IS Certification	N/A	No	No	N/A	Energizer E92 or Energizer EN92
XPP-5454GC	Loosen fitting on back of head & rotate door downward	Slotted Screwdriver	3 - AAA	Invalidates IS Certification	N/A	No	No	N/A	Energizer E92 or Energizer EN92
XPP-5456G	Loosen fitting on rear battery compartment & rotate door downward	Allen Wrench	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91
XPP-5458G	Loosen fitting on rear battery compartment & rotate door downward	Allen Wrench	3 - AA	Invalidates IS Certification	N/A	No	No	N/A	Duracell PC1500, Energizer EN91 or Energizer L91
XPP-5570G	Loosen fitting on bottom of handle & rotate door open	Torx Wrench/Screwdriver	6 - AA	Invalidates IS Certification	N/A	5570-BATT	5572-BATT Only	N/A	Energizer EN91 or Energizer L91
XPP-5570GA	Loosen fitting on bottom of handle & rotate door open	Torx Wrench/Screwdriver	6 - AA	Invalidates IS Certification	N/A	5570-BATT	5572-BATT Only	N/A	Energizer EN91 or Energizer L91
XPP-5570R	Loosen fitting on bottom of handle & rotate door open	Torx Wrench/Screwdriver	6 - AA	Invalidates IS Certification	N/A	5570-BATT	5572-BATT Only	N/A	Energizer EN91 or Energizer L91
XPP-5570RA	Loosen fitting on bottom of handle & rotate door open	Torx Wrench/Screwdriver	6 - AA	Invalidates IS Certification	N/A	5570-BATT	5572-BATT Only	N/A	Energizer EN91 or Energizer L91
XPR-5572G	Loosen fitting on bottom of handle & rotate door open	Torx Wrench/Screwdriver	6 - AA	Invalidates IS Certification	N/A	5570-BATT	No	5572-BATT Only	Energizer EN91 or Energizer L91
XPR-5572GA	Loosen fitting on bottom of handle & rotate door open	Torx Wrench/Screwdriver	6 - AA	Invalidates IS Certification	N/A	5570-BATT	No	5572-BATT Only	Energizer EN91 or Energizer L91
XPR-5572R	Loosen fitting on bottom of handle & rotate door open	Torx Wrench/Screwdriver	6 - AA	Invalidates IS Certification	N/A	5570-BATT	No	5572-BATT Only	Energizer EN91 or Energizer L91
XPR-5572RA	Loosen fitting on bottom of handle & rotate door open	Torx Wrench/Screwdriver	6 - AA	Invalidates IS Certification	N/A	5570-BATT	No	5572-BATT Only	Energizer EN91 or Energizer L91
XPR-5572RM	Loosen fitting on bottom of handle & rotate door open	Torx Wrench/Screwdriver	6 - AA	Invalidates IS Certification	N/A	5570-BATT	No	5572-BATT Only	Energizer EN91 or Energizer L91

** Not offered by Bayco Products. These would be commercially available rechargeable NiCad or NiMH Battery(ies). Do NOT use Lithium-ion Rechargeable Battery(ies)*

*** Using a different battery other than what is listed will invalidate Intrinsically Safe Certification Rating*



AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant: Bayco Products, Inc.

Manufacturer: Far East Lighting Co., Ltd.

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Dallas.TX

Control Number: 4002026

Authorized by: *Patricia Suarez*
William T. Starr, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.



AUTHORIZATION TO MARK

Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II & III, Division 1, Hazardous (Classified) Locations (ANSI/UL 913-2011, Seventh Ed., Issued July 31, 2006, Revised September 23, 2011);

Intrinsically Safe and Non-incendive Equipment for Use in Hazardous Locations (CAN/CSA-C22.2 No. 157-92 (R2012), Third Edition, Issued June 1992, with Update No. 2, June 2003);

Enclosures for Use in Class II Groups E, F & G Hazardous Locations General Instruction No 1 (CSA C22.2 No. 25-1966 (R2009), Issued September 1966);

Standard(s): Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i" (ANSI/UL 60079-11-2011, Fifth Ed., Issued September 30, 2009, Revised May 5, 2011);

Explosive atmospheres – Part 0: Equipment – General requirements (ANSI/UL 60079-0-2009, Fifth Ed., Issued October 21, 2009, Revised December 8, 2009);

Explosive atmospheres — Part 11: Equipment protection by intrinsic safety "i" (CAN/CSA-C22.2 No. 60079-11:11, First Ed. , Issued December 2011);

Explosive atmospheres — Part 0: Equipment — General requirements (CAN/CSA-C22.2 No. 60079-0:11, Second Ed., Issued December 2011)

Portable LED Flashlight and/or Floodlight

Product:

For Use In: Class I, Division 1, Groups A, B, C & D; Class II, Division 1, Groups E, F & G; Class III; Class I, Zone 0; and Zone 20 Hazardous (Classified) Locations

Protection Method: AEx ia IIC T3 Ga and Ex ia IIC T3 Ga; AEx ia IIIC T165°C Da

Temperature Code: T3

Ambient Temperature Range: -20 °C (-4 °F) to +40 °C (+104 °F)

Brand Name: Nightstick

Models: XPP-5420 and XPP-5422. May be followed by B or G.



1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. EC-Type Examination Certificate Number: **ITS13ATEX27837X**

4. Equipment or Protective System: **Portable LED Penlight (Model XPP 5420/ Model XPP5422)**

5.

6.

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Report Ref 100839388DAL-003 dated 23rd October 2013.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012; EN 60079-11:2012; EN50303:2000; EN60079-26:2007 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-



I M1 Ex ia I Ma



II 1 G Ex ia IIC T3 Ga Ambient: -20°C to +40°C

Intertek Testing & Certification Limited

Vijay K. Varma
V K Varma
Certification Officer
Date: 14th January 2014

This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification Conditions for Granting Certification.



SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS13ATEX27837X

13. Description of Equipment or Protective System

The product covered by this report is a portable LED flashlight and a floodlight in one light. The user can operate either light independent of the other so that the user has the appropriate pattern of light for whatever the task at hand is, or, in dual-light mode, both lights can be turned on simultaneously.

The printed circuit boards and components are mechanically captive by the design of the housing. After properly inserting the three AA alkaline batteries, the assembly is mechanically locked via a cover locking screw.

XPP-5420 model is a single LED flashlight, available in a black (B) or green (G) enclosure; and XPP-5422 model is a dual-light flashlight and floodlight, available in a black (B) or green (G) enclosure.

Ratings: 4.5 V nominal, powered by three AA cells in series, types Duracell PC1500, Energizer EN91, or Energizer Lithium L91 for XPP-5420 model and types Duracell PC1500 or Energizer EN91 for XPP-5422 model.

14. Report Number:

Intertek Report 100839388DAL-003 dated 23rd October 2013.

15. CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

- Product XPP-5420 covered under this report to be used only with three AA cells in series, types Duracell PC1500, Energizer EN91 or Energizer Lithium L91.
- Product XPP-5422 covered under this report to be used only with three AA cells in series, types Duracell PC1500 or Energizer EN91.

(b). Conditions For Use (Routine Tests)

- None.

16. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report 100839388DAL-003 dated 23rd October 2013.

Intertek Testing and Certification Ltd



SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS13ATEX27837X

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
5420/22 I.S. LED Task Light General Top Level Design File (Total Sheet(s)=1)	5420-22-GENL-MAST-00	E	7 th Aug 2013
5420/22 I.S. LED Task Light Certification Master Design File (Total Sheet(s)=5)	5420-22-CERT-MAST-00	E	7 th Aug 2013
5420/22 I.S. LEC Task Light Electrical Master Design File (Total Sheet(s)=39)	5420-22-ELEC-MAST-00	E	7 th Aug 2013
5420/22 I.S. LED Task Light Mechanical Master File (Total Sheet(s)=7)	5420-22-MECH-MAST-00	E	7 th Aug 2013

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Declaration of Conformity
XPP-5420/22GX
Manufacturer: Bayco Products, Inc.

The equipment which accompanies this declaration is in conformity with EU Directive(s):
ATEX Directive 2014/34/EU and IECEx Scheme, and EU Directive 2011/65/EU, concerning the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), as adopted by EU member states on January 2, 2013 (including restrictions on the use of Deca-BDE) ("EU RoHS"). The specifics of this compliance are as follows:

These Products are fully compliant and do not contain the restricted substances above levels noted in EU RoHS.

Including:

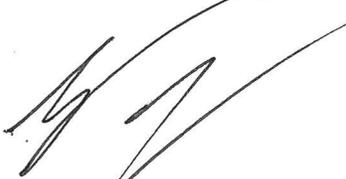
- Cadmium (Cd),
- Lead (Pb),
- Mercury (Hg),
- Hexavalent chromium (Cr ⁶⁺),
- the following flame retardants:
 - polybrominated biphenyls (PBB)
 - polybrominated diphenyl ethers (PBDE)

Phthalates:

- (DnHP) Di-n-Hexyl Phthalate
- (DnBP) Di-n-Butyl Phthalate
- (BBP) Di-Ethyl Hexyl Phthalate
- (DEHP) Di-n-Octyl Phthalate
- (DINP) Di-Isononyl PHthalate
- (DIDP) Di-Isodecyl Phthalate

Description of Equipment (XXX-XXX)

This product is a flashlight.



Signature:
Bijan Bayat
President / CEO
2/01/2017



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

Certificate No.: IECEx ETL 13.0026X Issue No: 0 Certificate history:
Issue No. 0 (2014-03-07)

Status: **Current**

Date of Issue: **2014-03-07**

Applicant: **Bayco Products, Inc.**
United States of America

Electrical Apparatus: **Portable LED Intrinsically Safe LED Flashlight and/ or Flood light**
Optional accessory:

Type of Protection: **Intrinsic Safety- ia**

Marking: Bayco Products, Inc.;
XPP 5420 B/G; XPP 5422 B/G;
Ex ia I Ma; Ex ia IIC T3 Ga;
Tamb: -20°C to +40°C;
IECEX ETL 13.0026X

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

Donald Card

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](#).

Certificate issued by:





IECEX Certificate of Conformity

Certificate No: IECEx ETL 13.0026X Issue No: 0
Date of Issue: 2014-03-07
Manufacturer: Bayco Products, Inc.
United States of America

Additional Manufacturing
location(s):
Far East Lighting Co., Ltd.

Longkou Dongli Wire and Cable Co., Ltd.

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 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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:

[US/ETL/ExTR13.0031/00](#)

Quality Assessment Report:

[GB/ITS/QAR13.0005/00](#)



IECEx Certificate of Conformity

Certificate No: IECEx ETL 13.0026X

Issue No: 0

Date of Issue: 2014-03-07

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The product covered by this report is a portable LED flashlight and a floodlight in one light. The user can operate either light independent of the other so that the user has the appropriate pattern of light for whatever the task at hand is, or, in dual-light mode, both lights can be turned on simultaneously. The Nightstick consists of four printed circuit boards, and has two separate compartments, a battery box, and the lighting box. The printed circuit boards and components are mechanically captive by the design of the housing, where disassembly is required to access the critical parts. After properly inserting the three AA alkaline batteries, the assembly is mechanically locked via a cover locking screw.

Model Similarity: XPP-5420 B/G model is a single LED flashlight, available in a black (B) or green (G) enclosure; and XPP-5422 B/G model is a dual-light flashlight and floodlight, available in a black (B) or green (G) enclosure

Ratings: For XPP 5420 B/G: 4.5 V nominal, powered by three AA cells in series types Duracell PC1500, Energizer EN91 or Energizer Lithium L91 For XPP 5422 B/G: 4.5 V nominal, powered by three AA cells in series types Duracell PC1500, Energizer EN91. See Annex 1 for manufacturer's documentation.

CONDITIONS OF CERTIFICATION: YES as shown below:

- i) XPP 5420 B/G to be used only with three AA cells in series, types Duracell PC1500, Energizer EN91, or Energizer Lithium L91; XPP 5422 B/G to be used only with three AA cells in series, types Duracell PC1500, Energizer EN91.
- ii) See Instruction Manual for Warnings and approved batteries



IECEX Certificate of Conformity

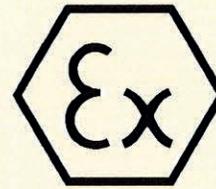
Certificate No:	IEC Ex ETL 13.0026X/00	Issue No. 0
Annex No. 1		

Manufacturer's documents

Drawings associated with Issue 0 of this certificate:

Title:	Drawing No.:	Rev. Level:	Date:
5420/22 I.S. LED Task Light General Top Level Design File (Total Sheet(s)=1)	5420-22-GENL-MAST-00	E	8-8-2012
5420/22 I.S. LED Task Light Certification Master Design File (Total Sheet(s)=5)	5420-22-CERT-MAST-00	E	8-8-2012
5420/22 I.S. LED Task Light Electrical Master Design File (Total Sheet(s)=39)	5420-22-ELEC-MAST-00	E	8-8-2012
5420/22 I.S. LED Task Light Mechanical Master File (Total Sheet(s)=7)	5420-22-MECH-MAST- 00	E	8-8-2012



The Intertek logo consists of the word "Intertek" in a white, sans-serif font, centered within a dark blue rounded rectangular background.

Conformity to Type Notification

1. Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC (ATEX)
2. Manufacturers Notification Number: **ITS13ATEXQ7761\02**
3. Explosion Protection concept(s) covered by this Notification:
See schedule 1
4. Manufacturer: **Bayco**

Intertek, Notified Body No. 0359 for Annex VI in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, confirms that the manufacturer has a quality system which complies with Annex VI of the Directive.

5. Full details of the Audit are held on file ref: **G102082763**
6. This notification may be withdrawn if the manufacturer no longer satisfies the requirements of Annex VI. Periodic inspections form part of this Notification. Any changes to the quality documentation must be notified to the Notified Body for review to ensure that this certificate remains valid
7. This notification is valid until **17 April 2016** and can be withdrawn if the manufacturer does not satisfy the quality assurance re-assessment.
8. The CE marking shall be followed by the identification number 0359 identifying the notified body involved in the production control stage required by Article 10 [1] of the Directive 94/9/EC.
9. This notification may only be reproduced in its entirety and without any change.

A handwritten signature in blue ink, appearing to read "P Moss", is written over a horizontal line.

P Moss
Certification Officer
01 May 2015



Intertek



Conformity to Type Notification

Notification Number: ITS13ATEXQ7761/02

Dated: 01 May 2015

Schedule 1

Product(s) for which the Manufacturer has been assessed

Product	Type Examination Certificate
XPP5420 B/G XPP 5422 B/G	ITS13ATEX27837X
XPP5410G XPP 5412G	ITS13ATEX27839X
XPP5450G XPP 5452G	ITS13ATEX27854X
XPP5454	ITS13ATEX27928X

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Manufacturer : BAYCO Products
Include Address with post code

Production Site(s) audited : BAYCO Products
Include Address with post code

Product Description : Manufacture of Ex ia flashlights

Number of Employees : Total: 30 No. involved in Ex products: 25

Scope of Audit : Initial Assessment Re-Assessment
Surveillance Assessment

List all applicable IECEX Certificates, : [IECEX ETL 13.0026X issue: 0 \[Current\]](#)
[IECEX ETL 13.0026X issue: 1 \[Current\]](#)
[IECEX ETL 13.0025X issue: 0 \[Current\]](#)
[IECEX ETL 13.0031X issue: 0 \[Current\]](#)
[IECEX ETL 13.0045X issue: 0 \[Current\]](#)
[IECEX ITS 14.0036X issue: 0 \[Current\]](#)
[IECEX UL 14.0062 issue: 0 \[Draft\]](#)
[IECEX ETL 13.0026X issue: 1 \[Current\]](#)

Electrical equipment with type(s) of protection of : is d e m n DIP
Other (*specify*)

Audit Team Leader : R J Smith

Audit Date : 16/17 April 2015

Contents:

- 1 Summary Report
2. Audit information
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1. Summary Report

Assessment Summary and Conclusions:

*(State the most important **results** and **conclusions** of the quality assessment)*

It is to be noted that at time of audit Bayco did not hold an ISO 9001 certificate.

Bayco currently have 10 Ex certificates (6 off IEC Ex & 4 off ATEX). All production for these is currently carried out in China following work instructions. Bayco employ a local Agent to audit the four Chinese factories and employ Intertek China to test to destruction 5 of each batch, they write a comprehensive report which is submitted to Bayco prior to shipment. Bayco also carry out sample inspection of units when they arrive at Wylie factory.

This showed a high level of testing and inspection of the product. However there were some areas of concern, namely.

The quality system is run by the Electrical engineer whose time would be better spent on product design etc and becoming the authorised person. A separate quality person should be considered.

The ISO system concentrates on Ex product where as equal measure should be given to the three product ranges.

Internal audits were not being carried out (raised as a non conformance) of Ex product.

The Intertek Chinese auditors had queried the coding on the flashlights when it appeared nothing was wrong with the coding it is recommended follow up action is carried out. For example is further training required or do the work instructions need updating.

Bayco employ a sampling technique when samples are received however this appears to be five samples tested no matter what the size of the shipment. There are statistical methods written down that cover the amount of incoming samples that are tested to cover the whole batch and this should also be looked into.

However the techniques employed by Bayco to ensure samples conform to Ex certificates was considered satisfactory.

The non-compliances should be cleared out as soon as possible.

Next Quality Audit due : March 2016

Non-Conformities (cleared prior to issue of this report).

(Indicate the Serial No.(s) of non-conformities recorded. Individual non-conformities are recorded on the non-conformity reports)

NCR No.(s): 1

4.2.3 Control of Documents

The quality manual currently calls schedule drawing related drawings. This clause needs to be amended to reflect that schedule drawings are in fact drawings listed on the certificate and related drawings (if in existence) are drawings that are not submitted but could have an effect on schedule drawings.

Also Bayco shall annually audit these certificates to ensure of their continued compliance.

The D of Cs need addressing as some aspects outlined in the ATEX directive (clause 10) are missing.

NCR No.(s): 2

5.5.1 Responsibility and Authority

g) the reviewing of Ex certificates and technical documentation and identifying any changes that effect product compliances with the certificate.

The above needs addressing this could be carried out as part of the annual audit or when the annual check of certificates is carried out.

NCR No.(s): 3

8.2.2 Internal Audits

The quality manual states that yearly internal audits are carried out. However no matrix was seen that encompassed checking Ex product. The two other findings relate to this requirement. Internal audits need scheduling.

NCR No.(s): 4 (ISO 9001)

4.2.4 Control of records

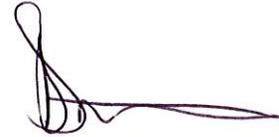
The list as indicated in ISO 9001 was not in the current quality system. This needs to be updated to include all those shown in ISO list (or justification made as to their withdrawal).

Audit Team Leader Recommendations*(Delete where not applicable)*

Certification to be issued following receipt of satisfactory documentary evidence supporting effective corrective action, and a test report is issued. Corrective action to be verified at next surveillance visit



P Moss May 2015

**Audit Team Leader Signature
And Date**

R J Smith May 2015

**Quality & Certification
Manager***Sign to accept Audit Team Leader
recommendations and QAR*

3. Documentation Review and Assessment of Implementation

(For surveillance audits, major document changes only may be reviewed)

IECEX OD005 clauses	Assessed (Y, N or N/A)	Manufacturer's Doc. Ref.		NCR Ref.
		List document(s) viewed, with revision status, and Comments	List any pertinent details / compliance with requirements of clause	
4. Quality Management System		QM-001-2008 Rev A		
4.1 General requirements	Y	See QM section 4.1\A-550-001		
4.2 Documentation requirements	Y	See QM section 4.2 P423 F423		
4.2.2 Quality Manual	Y	See QM section 4.2.2		
4.2.3 Control of documents	Y	See QM section 4.2. P423 F423-003-A		NCR 01
4.2.4 Control of records	Y	See QM section 4.2.4		NCR 04
5. Management Responsibility				
5.1 Management commitment	Y	See QM section 5.1		
5.2 Customer focus	Y	See QM section 5.2		
5.3 Quality Policy	Y	See QM section 5.3		
5.4 Planning & Quality objectives	Y	See QM section 5.4 P423 WI423 P730 WI730		
5.5 Responsibility, authority, internal communications	Y	See QM section 5.5 P500		NCR 02
5.6 Management review	Y	See QM section 5.6 P500		
6. Resource Management				
6.2 Human Resources	Y	See QM section 6.2 P622		
6.3 Infrastructure	Y	See QM section 6.3 P630		
6.4 Work environment	Y	See QM section 6.4		
7. Product Realisation				
7.1 Planning of product realisation	Y	See QM section 7.1 P710		
7.2 Customer requirements	Y	See QM section 7.2 P700		
7.2.3 Customer communication	Y	See QM section 7.2.3		
7.3 Design and development	NA	See QM section 7.3		
7.4 Purchasing	Y	See QM section 7.4 P740		
7.5 Identification & traceability	Y	See QM section 7.5 P750 P753		Ob 01
7.6 Control of monitoring & measuring devices	Y	See QM section 7.6 P760		
8. Measurement, Analysis & Improvement				
8.2.1 Customer satisfaction	Y	See QM section 8.2.1 P821		
8.2.2 Internal Audit	Y	See QM section 8.2.2 P822		NCR 03
8.2.3/4 Monitoring & measurement of processes and product	Y	See QM section 8.2.3 P824		
8.3 Control of non-conforming product	Y	See QM section 8.3 P824		
8.4 Analysis of data	Y	See QM section 8.4 P840		
8.5 Corrective & Preventive action	Y	See QM section 8.5 P840 P841P852		

Annex A: Information relevant to particular types of protection

A.2	General - Material composition of (parts of) enclosures		
A.3	Ex d - flameproof enclosures		
A.3.1	Castings		NA
A.3.2	Machining		NA
A.3.3	Cemented joints and potted assemblies		NA
A.3.4	Routine pressure testing		NA
A.3.5	Flanged joints		NA
A.3.6	Sintered components		NA
A.4	Ex i - intrinsic safety		
A.4.1	Components for intrinsically safe products	Flashlights are bought in with C of C sub-contractor has been audited to 80079-34.	Pass
A.4.2	Printed circuit boards (PCB)	See A.4.1	Pass
A.4.2.1	Non-populated PCB's		NA
A.4.2.2	Populated PCB's	See A.4.1	Pass
A.4.3	Sub-assemblies and assemblies	See A.4.1	Pass
A.4.4	Tests		Pass
A.4.5	Intrinsically safe circuits and assemblies housed in Ex d, Ex p or Ex q enclosures		NA
A.5	Ex e – increased safety		
A.5.1	Ingress protection		NA
A.5.2	Internal wiring and contact integrity		NA
A.5.3	Rotating machines		NA
A.5.4	Windings		NA
A.5.5	Tests		NA
A.6	Ex p – pressured apparatus		
A.6.1	Ingress protection		NA
A.6.2	Tests		NA
A.7	Ex m – encapsulation		
A.7.1	Production documentation		NA
A.7.2	Tests		NA
A.8	Ex o – oil immersion		
A.8.1	Tests		NA
A.9	Ex q – powder filling		
A.9.1	Material control		NA
A.9.2	Filling		NA
A.9.3	Ingress protection		NA
A.9.4	Tests		NA

4. Observations

OB1

7.5.3 Identification and traceability

For better traceability it would be beneficial if the date code was included in inspection reports from China (they are but only through photos of label details). The 'prologue' system that Bayco utilise should also include this date code.

IECEX Quality Assessment Report: GB/ITS/QAR13.0005/02 details

QAR :	
QAR Reference Number*: (automatic numbering)	GB/ITS/QAR13.0005/02
Related QARs:	GB/ITS/QAR13.0005/00 GB/ITS/QAR13.0005/01
Status*:	Issued
QAR Free Reference Number*:	G102082763
Audit Date*: (yyyy-mm-dd)	2014-04-17
Date of Issue*: (yyyy-mm-dd)	2015-05-01
Details of change*:	Surveillance of manufacturer without a certified QMS (Yearly)
Valid until*: (yyyy-mm-dd)	2018-04-17
Site(s) audited*:	Bayco
Issuing ExCB*:	ITS - Intertek Testing & Certification Limited
Manufacturer*:	Bayco
Country of Manufacture*:	United States of America
Product information*:	Flashlights
Protection concept*:	intrinsically safe - i.a.
Related IECEX Certificates: (automatic linking)	-
Related Certificates: (manual insertion)	
Related IECEX Certificates for all previous versions:	IECEX ETL 13.0026X issue: 0 [Current] IECEX ETL 13.0026X issue: 1 [Current] IECEX ETL 13.0025X issue: 0 [Current] IECEX ETL 13.0031X issue: 0 [Current] IECEX ETL 13.0045X issue: 0 [Current] IECEX ITS 14.0036X issue: 0 [Current] IECEX UL 14.0062 issue: 0 [Draft] IECEX ETL 13.0026X issue: 1 [Current]
Comment:	No ISO held at Wylie site,
Attachment:	