

HELIOS TUBE BTB

Users Manual Gebruiksaanleitung Manuale di istruzioni Manual de instrucciones Manuel d'instructions Manual de instruções

ORDER CODE:
FP2-BTB
MANUAL VERSION: 4.0
DATE OF ISSUE: 08/23/2021

NOTE / HINWEIS / NOTA
Bluetooth Bridge built-in with logo.
Integrata Bluetooth Bridge mit diesem Logo.
Bluetooth Bridge integrato con questo logo.

CONTENTS / LIEFERUMFANG / VOLUME DI FORNITURA

- 1. Helios Tube BTB (FP2-BTB)
- 2. Eye Bolt (FP1-EBL)
- 3. 2x TubeHolder (AX1-H)
- 4. TubeStand (AX1-STD)
- 5. SiliconCap (FP1-SP)
- 6. Users Manual / Gebruiksaanleitung / Manuale di istruzioni

PRODUCT OVERVIEW / PRODUKTÜBERSICHT / PANORAMA PRODOTTI

Back / Rückseite / Retro:
MS thread for floorstand or MS eyebolt!
MS Gewinde für Standfuß oder MS Ringöse!
Filettatura M5 per supporto o occhio M5

SiliconCap (FP1-SP) Control Panel / Bedienfeld / Pannello di controllo
Top view / Oberrseite / Vista superiore:
8 Pixel
individually controllable / einzeln steuerbar / controllabile individualmente

Top view / Oberrseite / Vista superiore:
8 Pixel
individually controllable / einzeln steuerbar / controllabile individualmente

1. Pixel
550mm

USAGE / BEDIENUNG / IMPIEGO

1. Integrated control panel / Integriertes Systemmenü / Menu di sistema integrato

Use the menu buttons to navigate through the main menu. Settings for color adjustment and brightness / runtime are directly accessible by two symbol buttons.
Usare i tasti del menu per navigare all'interno del menu principale. L'impostazione del colore della luce e della luminosità/durata può essere attivata direttamente con due tasti con simboli.

Top navigation / In der Hauptnavigation / Navigazione principale
On/Off / Ein/Aus / Accensione o spegnimento
Main Menu / Hauptmenü aufrufen / Menu principale
Reset Settings / Einstellungen zurücksetzen / Reimpostare le impostazioni
Change Input Select / Eingangssignal ändern / Cambiare il segnale di ingresso
Set DMX addresses / DMX Adresse einstellen / impostare l'indirizzo DMX
Color adjustment / Farbeinstellungen / Impostazioni colore
Brightness and runtime control / Helligkeits- und Laufzeitsteuerung / Luminosità e controllo del tempo di esecuzione

2. More control options / Weitere Steuerungsmöglichkeiten / Altre opzioni di controllo

On/Off, Static Colors, Preprogrammed Effects
Ein/Aus, Statische Farben, vorprogrammierte Effekte
On/Off, Colori statici, Colori programmati

3. Switching On/Off / Ein-/Auslassen / Accensione o spegnimento

All settings, Complex effects, Talkback+, Updates
Alle Einstellungen, Komplexe Effekte, Talkback+, Updates
Impostazioni, Effetti complessi, Talkback, Aggiornamenti

Control from DMX consoles via CRMX or Wireless DMX
Steuerung per DMX-Konsolen über CRMX oder Wireless DMX
Comando delle consolle DMX tramite CRMX o Wireless DMX

Control from DMX consoles via Titan Power/Data Combination Cable
Steuerung mit DMX Konsolen via Titan Power/Data Combination Cable
Comando con le consolle DMX tramite Titan Power/Data Combination Cable

4. Connect BTB / BTB verbinden / Collegare BTB

To control your lights with the AsterApp, first connect a Bluetooth Bridge (BTB). It forwards the AsterApp signal to paired lights. You may use an AsterBox as BTB or choose a light with built-in BTB, like AX3, NYX Bulb, PixelBlick, Titan Tube BTB, Helios Tube. See [here](#) for more information.
Per controllare le luci con l'AsterApp, prima collegare una bridge Bluetooth (BTB). Inoltra il segnale AsterApp a tutte le luci abbinate. Puoi usare un AsterBox come BTB o scegliere una lampada con BTB integrato, come AX3, NYX Bulb, PixelBlick, Titan Tube BTB, Helios Tube. Vedi [qui](#) per maggiori informazioni.

5. Helios Tube BTB

Control from DMX consoles via CRMX or Wireless DMX
Steuerung per DMX-Konsolen über CRMX oder Wireless DMX
Comando delle consolle DMX tramite CRMX o Wireless DMX

6. Linking to a CRMX transmitter / Lampe mit CRMX Sender verbinden / Collegare con il trasmettitore CRMX

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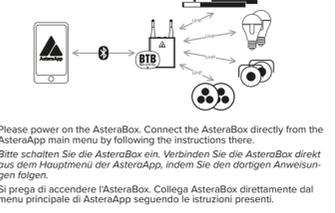
7. Reset / Zurücksetzen / Reset

RESET to unlink CRMX and unbind Bluetooth. Sets „Input Select“ to „AUTO“.
RESET per smarcare il CRMX e scollegare il Bluetooth. Imposta „Input Select“ su „AUTO“.

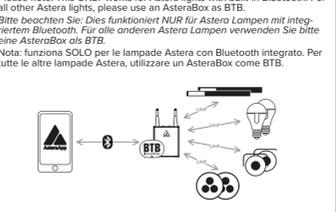
8. Charging / Laden / Ricarica

While the power cable is connected, the display shows the charging status. Charge immediately when the battery is empty. Do not store the unit when the battery is empty. Charging time is approximately 3 hours.
Mentre il cavo di alimentazione è inserito nella presa, sul display viene indicato lo stato di carica. Ricaricare il dispositivo non appena si scarica la batteria e non conservarlo in dispositivo con la batteria scarica. Il tempo di ricarica è circa 3 ore.

Connect AsterBox as BTB / AsterBox als BTB verbinden / Collega l'AsterBox come BTB



Connect light as BTB / Lampe als BTB verbinden / Collega una luce come BTB



Please power on the light. Hold down the power button for 3 seconds until the light flashes blue. Then press OK in the AsterApp. The light which is connected as BTB shows a small Bluetooth icon in the display.
Bitte schalten Sie die Lampe ein. Halten Sie den Netzschalter 3 Sekunden lang gedrückt, bis das Licht blau blinkt. Drücken Sie dann in der AsterApp „OK“.

1. Helios Tube BTB

2. AsterApp
Helios 00100000
Tap to pair

The lights' BTB is connected to the AsterApp. Die BTB der Lampe ist mit der AsterApp verbunden.
Il BTB della luce è collegato all'AsterApp.

The BTB is enabled and waiting for a connection. Die BTB ist aktiviert und wartet auf eine Verbindung.
Il BTB è abilitato e in attesa di una connessione.

To disable the BTB again press UNBOND BLUETOOTH. Um die BTB wieder zu deaktivieren, drücken Sie UNBOND BLUETOOTH.
Per disabilitare nuovamente il BTB premere UNBOND BLUETOOTH.

5. Pair with lights / Lampen paaren / Coppia con le luci
Power on the light. Then hold down the power button for 3 seconds until the light flashes blue. Go to "Pair with Lights" dialog in the AsterApp. Then press Schalten Sie das Licht ein. Halten Sie dann den Netzschalter 3 Sekunden lang gedrückt, bis das Licht blau blinkt. Gehen Sie in der AsterApp zum Dialog „Mit Lichtern koppeln“. Drücken Sie dann OK.
Accendi la luce. Quindi tieni premuto il pulsante di accensione per 3 secondi finché la luce non lampeggia in blu. Vai alla finestra di dialogo „Accoppia con le luci“ nell'App Aster. Quindi premi OK.

1. Helios Tube BTB
2. AsterApp
3. Helios Tube BTB
Pair with Lights

6. Linking to a CRMX transmitter / Lampe mit CRMX Sender verbinden / Collegare con il trasmettitore CRMX

1. Helios Tube BTB
2. Helios Tube BTB
3. Helios Tube BTB

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9. Switching On/Off / Ein-/Auslassen / Accensione o spegnimento
All settings, Complex effects, Talkback+, Updates
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2. Rigging / Riggung / Riggung

The Helios Tube BTB can be hung via a M5 eyebolt or two TubeHolders. The TubeHolder is a 14" x 20UNC thread for attaching mounting accessories or SafetyEyeBots. Only use the TubeHolder with the SafetySplit. When hanging a Helios Tube via its eyebolt, make sure to use a secondary safety spigot (e.g. via AX1-H). Make sure the light can drop more than 20cm if primary mounting fails.
Der Helios Tube BTB kann über eine MS-Ringöse oder zwei TubeHolder aufgehängt werden. Die TubeHolder haben ein 14" x 20UNC Gewinde zum Anbringen von Montagegeräten oder der Sicherheitsaugen. Verwenden Sie den TubeHolder immer mit dem Sicherungssplit.
Verwenden Sie beim Aufhängen eines Helios Tubes an der Öse unbedingt einen zweiten Sicherungspunkt (z.B. über AX1-H). Stellen Sie sicher, dass die Leuchte nicht mehr als 20 cm herunterfallen kann, wenn die primäre Aufhängung versagt.

Helios Tube BTB può essere appeso tramite un gancio M5 o due TubeHolder. I TubeHolder hanno una filettatura 14" x 20UNC per il fissaggio degli accessori di montaggio o gli occhi di sicurezza. Utilizzare il TubeHolder solo con il SafetySplit.
Quando appendi un tubo Helios tramite il suo gancio, assicurati di usare un secondo punto di sicurezza (ad es. tramite AX1-H). Assicurati che la luce non possa scendere più di 20 cm se il montaggio principale fallisce.

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--- English ---

INTRODUCTION / INTENDED USE

The Helios Tube BTB from ASTERA is a LED tubelight for professional use in the event and film business. The Helios Tube BTB is designed for direct or indirect illumination of objects or scenarios. Due to its built-in battery it can be quickly set up at places where traditional lights cannot be moved easily. The Helios Tube BTB has a built-in LED battery and offers excellent color and light values. The Helios Tube BTB generates white or colored light and the color temperature can be adjusted in many ways. The Helios Tube BTB can be controlled with the AsterApp or with wired DMX or wireless CRMX. The device can also be controlled by the integrated display or by infrared remote control. Thanks to its built-in Bluetooth it can be used as a Bluetooth Bridge (BTB).
The Helios Tube BTB can be used as a TubeHolder for other lights. Helios Tube BTB can be used as a TubeHolder for other lights. Helios Tube BTB can be used as a TubeHolder for other lights.

Do not shake the device. Avoid brute force when installing or operating the device.
When choosing the installation spot, please make sure that the device is not exposed to extreme heat or dust. Avoid direct sunlight for a longer period of time.
The ambient temperature must be set. Keep away from direct insulation (particularly in cars) and heaters.
Never use the device during thunderstorms connected to the power lines. Over voltage could destroy the device. Always disconnect the device during thunderstorms.
Make sure that the area below the installation place is blocked when rigging, detaching or servicing the fixture.
Always use the correct safety wire.
Operate the device only after having become familiarized with its functions.

Please consider that unauthorized modifications on the device are forbidden due to safety reasons! If this device will be operated in any way different to the one described in this manual, the product may suffer damages and voids the warranty. The device is not for household use and is not suitable for permanent installation.
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SAFETY INFORMATION

Before you operate this unit read the manual carefully. Always make sure to include the manual if you pass/rent/sell the unit to another user. Never use the device during thunderstorms connected to the power lines. Over voltage could destroy the device. Always disconnect the device during thunderstorms.
This product is for professional use only. It is not for household use.

- Do not operate the unit in areas of high temperature conditions or under direct sunlight. It will cause abnormal function or damage the product.
- Always use a suitable safety wire when mounting the light overhead.
- Connect the safety wire only to the intended safety device.
- Always follow local safety requirements.
- Only authorized personnel may service the battery.
- Do not place in fire or heat.
- Do not use or charge the light if it is damaged.
- Avoid bumping or plugging it, may cause fire or explosion.
- Never store the fixture in a fully charged state.
- Partially charged batteries will lose capacity.
- Fully recharge every 6 months if not used.
- Battery may only be replaced with an original spare part from Astera.
- It is recommended to charge at a temperature between 15°C and 35°C.

Warning: In extreme cases, abuse or misuse of standard/rechargeable batteries can lead to:
Explosion
Fire
Heat generation or smoke and gas development.

- Do not directly look into the light.
- It can cause harm to your eyes.
- Do not look through the lens of a magnifying glass or any other optical instrument that may concentrate the light output.
- Use only Astera approved accessories to diffuse or modify the light beam.

- Do not open the product housing.
- Do not apply power if the light is damaged.
- Do not submerge the light in any liquid.
- Do not replace the LED light source.
- Caution, risk of electric shock.

The Helios Tube BTB shall be installed near the socket-outlet which shall be easily accessible.
Warning: risk of electric shock - Do not open device.

- The exterior surfaces of the light can become hot, up to 70°C (158°F) during normal operation.
- Ensure that accidental physical contact with the device is impossible.
- Do not cover the light.
- Allow all lights to cool before touching.
- Keep 0.3m (12in) from objects to be illuminated.

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SPECIFICATIONS - TECHNICAL DATA

Order Code	FP2-BTB
LED Engine	Titan LED Engine
Colors	RGBMintAmber
Total LED Power	35W
LED Power Draw	24W
Luminous flux	1340lm
Entrance beam diameter	393xL
CR(Ray)TLCI 3200-6500K*	>96
Beam Angle/ Field Angle	120°/ 18°
Strobe	0 - 25Hz
Pixel	8
Battery Lifetime	70 % after 300 cycles
Battery Runtime	up to 20 hours
Charging Time (nominal)	3 hours
Input Voltage	24V, 2A
Wired DMX	Yes
CRMX Receiver	Built in
Bluetooth/Bridge BTB	Built in
Wireless Frequencies	CRMX 2.4GHz, UHF, Bluetooth, WiFi
Range (m/yds)	300 / 330 (3/3.3 Bluetooth)
Housing Material	Polycarbonate, metal end caps
IP Rating	IP65 (only with FP1-SP)
Ambient Temperature (°C/F)	0° - 40° / 32° - 104°
Weight (kg/lbs)	0.765 / 1.68
Dimensions (mm/inches)	Ø42 x 550 mm / Ø1.6" x H21.7"

RF CHARACTERISTICS

Wireless Modules	Modulation	ERP (Transmitter)	Channel Count
EU: UHF*** (863-870MHz)	FHSS	<25mW	47
USA: UHF (917-922.20MHz)	FHSS	<25mW	53
AUS: UHF (922.30-927.50MHz)	FHSS	<25mW	53
SGP: UHF (920.50-924.50MHz)	FHSS	<25mW	41
KOR: UHF (917.9-921.5MHz)	FHSS	<25mW	10
RUS: UHF (868.75-869.12MHz)	FHSS	<25mW	6
JPN: UHF (922.80-926.40MHz)	FHSS	<25mW	19
CRMX (2402-2480MHz)	FHSS	10mW (BLE)	79
Bluetooth 5.0 LE (2402-2480MHz)	FHSS	10mW (BLE)	40
WiFi (2412-2472MHz)	DSSS, OFDM	100mW	13

**General allocation of frequencies for use with short-range radio applications
Spectrum usage regulations:

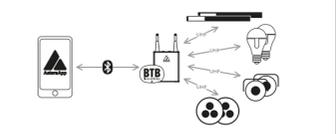
Frequency range in MHz	Maximum equivalent radiated power (ERP)	Additional parameters / frequency access and interference mitigation techniques
865 - 868	25 mW	Requirements for frequency access and mitigation techniques* Alternatively, a maximum duty cycle ² of 2% can be used.
868.0 - 868.6	25 mW	Requirements for frequency access and mitigation techniques* Alternatively, a maximum duty cycle ² of 2% can be used.
868.7 - 869.2	25 mW	Requirements for frequency access and mitigation techniques*

HELIOS TUBE BTB

Conectar AsteraBox como BTB / Connecter AsteraBox comme BTB / Ligar a AsteraBox como BTB



Encienda el AsteraBox. Conecte el AsteraBox directamente desde el menú principal de AsteraApp siguiendo las instrucciones allí. Veuillez allumer l'AsteraBox. Connectez l'AsteraBox directement à partir du menu principal de l'AsteraApp en suivant les instructions. Por favor, liguem a AsteraBox. Ligue a AsteraBox directamente do menu principal da AsteraApp, seguindo as instruções a contidas.



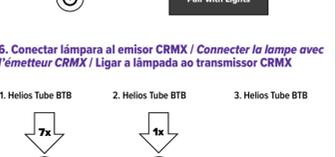
Encienda la luz. Mantenga pulsado el botón de encendido durante 3 segundos hasta que la luz parpadee en azul. Luego presione OK en la AsteraApp. La luz que está conectada como BTB muestra un pequeño icono de Bluetooth en la pantalla. Veuillez allumer la lampe. Maintenez le bouton d'allumage enfoncé pendant 3 secondes jusqu'à ce que la lumière clignote en bleu. Appuyez ensuite sur OK dans l'AsteraApp. La lampe qui est connectée en tant que BTB montre un petite icône Bluetooth sur l'écran.



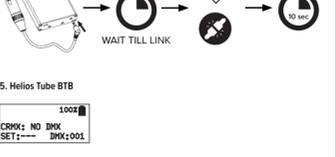
Encienda las luces. Mantenga pulsado el botón de encendido durante 3 segundos hasta que la luz parpadee en azul. Luego presione OK en la AsteraApp. La luz que está conectada como BTB muestra un pequeño icono de Bluetooth en la pantalla. Veuillez allumer les lumières. Maintenez le bouton d'allumage enfoncé pendant 3 secondes jusqu'à ce que la lumière clignote en bleu. Appuyez ensuite sur OK dans l'AsteraApp. La lumière qui est connectée comme BTB montre un petit icône Bluetooth sur l'écran.



Encienda la luz. A continuación, mantenga pulsado el botón de encendido durante 3 segundos hasta que la luz parpadee en azul. Vaya al diálogo Emparejar con las luces en la AsteraApp. A continuación, presione OK. Allumez la lampe. Maintenez ensuite le bouton d'allumage enfoncé pendant 3 secondes jusqu'à ce que la lumière clignote en bleu. Allez au dialogue "Emparer avec les lumières" dans l'AsteraApp. Puis appuyez sur OK.



Encienda las luces. A continuación, mantenga pulsado el botón de encendido durante 3 segundos hasta que la luz parpadee en azul. Vaya al diálogo Emparejar con las luces en la AsteraApp. A continuación, presione OK. Allumez les lumières. Maintenez ensuite le bouton d'allumage enfoncé pendant 3 secondes jusqu'à ce que la lumière clignote en bleu. Allez au dialogue "Emparer avec les lumières" dans l'AsteraApp. Puis appuyez sur OK.



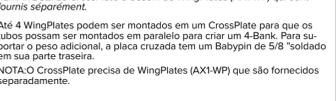
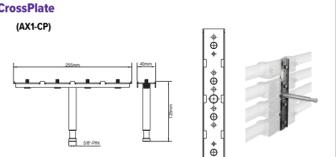
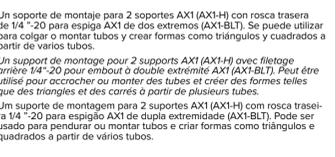
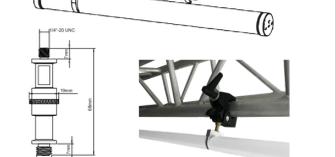
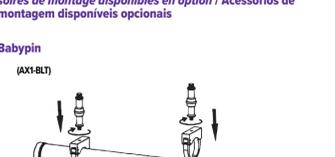
Encienda las luces. A continuación, mantenga pulsado el botón de encendido durante 3 segundos hasta que la luz parpadee en azul. Vaya al diálogo Emparejar con las luces en la AsteraApp. A continuación, presione OK. Allumez les lumières. Maintenez ensuite le bouton d'allumage enfoncé pendant 3 secondes jusqu'à ce que la lumière clignote en bleu. Allez au dialogue "Emparer avec les lumières" dans l'AsteraApp. Puis appuyez sur OK.



Encienda las luces. A continuación, mantenga pulsado el botón de encendido durante 3 segundos hasta que la luz parpadee en azul. Vaya al diálogo Emparejar con las luces en la AsteraApp. A continuación, presione OK. Allumez les lumières. Maintenez ensuite le bouton d'allumage enfoncé pendant 3 secondes jusqu'à ce que la lumière clignote en bleu. Allez au dialogue "Emparer avec les lumières" dans l'AsteraApp. Puis appuyez sur OK.

9. Riggig / Riggig / Riggig

El Helios Tube BTB se puede colgar mediante un cáncamo M5 o dos TubeHolders. Los TubeHolders tienen una rosca de 1/4" -20UNC para colocar accesorios de montaje o SafetyEyesBolt. Utilice únicamente TubeHolder con SafetySpint.



--- Español ---

Introducción / Finalidad de uso prevista. El Helios Tube BTB de ASTERA es un tubo de luz LED para uso profesional en el negocio de eventos y películas. El Helios Tube BTB está diseñado para ser utilizado en interiores y exteriores. Debido a su batería incorporada, se puede instalar rápidamente en lugares donde las luces tradicionales no se pueden montar fácilmente.

El Helios Tube BTB puede utilizarse para el color o el blanco. El Helios Tube BTB genera luz blanca o de color y la temperatura de color se puede ajustar de muchas formas. El Helios Tube BTB se puede controlar con un mando a distancia por infrarrojos o CRMX con cable. También se puede controlar mediante la pantalla integrada o mediante un mando a distancia por infrarrojos que se conecta a su Bluetooth integrado se puede utilizar con SiliconCap (si no está cableado).

Evite secuencias y cualquier tipo de violencia durante la instalación y puesta en servicio del dispositivo. Al seleccionar el lugar de instalación, asegúrese de que el dispositivo no quede expuesto a temperaturas excesivas o una corriente de aire directa. El dispositivo debe estar protegido de la lluvia. Asegúrese de que no queden cables sueltos. ¡Estos pueden suponer un peligro para la seguridad de otras personas!

Indicaciones de seguridad. Lea atentamente las instrucciones antes de la puesta en marcha. Asegúrese de que las instrucciones se entregan al usuario en caso de transmisión, preste atención a los avisos de advertencia y opere esta unidad. Este producto está destinado únicamente a un uso profesional y no a un uso doméstico.

No utilice el dispositivo a temperaturas ambiente elevadas o expuesto a una radiación solar directa. Este provoca fallos de funcionamiento. No toque el dispositivo directamente con las manos. Utilice siempre un cable de aluminio de seguridad adecuado al colgar la lámpara sobre la cabeza.

Advertencia: En casos extremos, el uso inadecuado o incorrecto de baterías o acumuladores puede tener las siguientes consecuencias: Explosión, Incendio, Calentamiento o generación de humo y gas.

Limpeza y mantenimiento. Limpieza y mantenimiento.

Solución de problemas. Problema Posible causa Solución. La lámpara no se enciende. Acumulador descargado. Corregir la lámpara al cargador e intentar de nuevo.

Eliminación. No mire directamente al haz de luz. No mire a los LEDs a través de una lupa o una lente capaz de concentrar la luz. No toque la lámpara directamente con las manos.

Declaración de conformidad y FCC. Mediante la presente, Astera LED Technology GmbH declara que el tipo de los equipos de radio Helios Tube BTB se corresponde con la directiva 2014/53/UE. El texto íntegro de la declaración de conformidad UE está disponible en la siguiente dirección de Internet: https://www.astera-led.com/hellos.

Consignes de sécurité. Avant toute mise en service, lisez attentivement la notice. Assurez-vous de remettre la notice aux utilisateurs en cas de transmission, de prêt ou de vente. Faites preuve de prudence lors de la manipulation et de l'installation de l'appareil. Ce produit est conçu exclusivement pour une utilisation professionnelle et non domestique.

--- Español ---

Declaración de exposición a la radiación RF de la FCC. Precaución: Para mantener el cumplimiento de las directrices de exposición a RF de la FCC, coloque el producto al menos a 20 cm de las personas cercanas.

Table with specifications: Número de artículo (FP2-BTB), LED Engine (Titan LED Engine), Colores (RGBMiniAmber), Potencia total de los LEDs (36W), El consumo de energía (24W), Salida de luz (1340lm), Emisión (393lx), etc.

Características de las radiofrecuencias. Wireless Modules, Modulation, ERP (Transmitter), Channel Count. EU: UHF (863-870MHz), FHSS, <25mW, 47.

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--- Español ---

Rechargez entièrement les batteries tous les 6 mois lorsque les lampes ne sont pas utilisées. Ne rechargez pas les batteries dans un endroit humide. Ne laissez pas la batterie à une température ambiante entre 15 °C et 35 °C.

Attention: dans des cas extrêmes, une mauvaise utilisation ou un usage incorrect des piles ou des batteries rechargeables peut entraîner les conséquences suivantes: Explosion, Développement de la marque, Production de chaleur ou de fumée et de gaz.

Nettoyage et entretien. Attention: Ne nettoyez pas l'appareil avec des produits abrasifs. Utilisez un chiffon doux et humide pour nettoyer l'appareil.

Protection secondaire. Attention: Ne touchez pas les composants internes de l'appareil. Ne touchez pas les composants internes de l'appareil.

Dépannage. La lampe ne s'allume pas. La batterie est vide. Branchez la lampe au chargeur et rechargez-la.

Élimination. Ne jetez pas l'appareil avec les déchets ménagers. Recyclez-le dans un point de collecte approprié.

Déclaration de conformité et FCC. La présente, Astera LED Technology GmbH déclare que le type d'appareil radio Helios Tube BTB est conforme à la directive 2014/53/UE.

Indications de sécurité. Ne regardez pas directement dans le faisceau lumineux. Ne touchez pas les composants internes de l'appareil.

Introduction / Utilisation correcte. Le Helios Tube BTB d'ASTERA est un tube LED à usage professionnel dans l'événementiel et le cinéma. Le Helios Tube BTB est conçu pour l'éclairage direct ou indirect d'objets et de paysages.

Spécifications - Données techniques. Numéro de poste (FP2-BTB), LED Engine (Titan LED Engine), Colores (RGBMiniAmber), Puissance totale des LEDs (36W).

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--- Español ---

Protección secundaria. Al lámpara deve ser sempre protegida por uma proteção secundária em caso de utilização súbita. A utilização súbita de uma lâmpada não deve ocorrer mais de 20 cm.

Resolução de problemas. Problema Causa possível Solução. A lâmpada não acende. A bateria está descarregada. Ligue a lâmpada ao carregador e tente novamente.

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