


ASTERA
FP7-E26 LED Luna
Bulb With Receiver



ASTERA FP7-E26 LED Luna Bulb With Receiver User Manual

[Home](#) » [ASTERA](#) » [ASTERA FP7-E26 LED Luna Bulb With Receiver User Manual](#) 

Contents

- [1 ASTERA FP7-E26 LED Luna Bulb With Receiver](#)
- [2 Product Usage Instructions](#)
- [3 FAQ](#)
- [4 PRODUCT OVERVIEW](#)
- [5 USAGE](#)
- [6 Connect AsteraBox as BTB](#)
- [7 Assembly](#)
- [8 INTRODUCTION](#)
- [9 SAFETY INFORMATION](#)
- [10 CLEANING AND MAINTAINING](#)
- [11 TROUBLESHOOTING](#)
- [12 FCC STATEMENT](#)
- [13 SPECIFICATIONS TECHNICAL DATA](#)
- [14 CONTACT](#)
- [15 Documents / Resources](#)
 - [15.1 References](#)





Product Usage Instructions

- To switch on the LunaBulb, it must be screwed into a socket that is connected to a power supply.
- It then switches on automatically. As long as it is supplied with power, it is not possible to switch the fixture off.
- To control your lights with the AsteraApp, you can connect a Bluetooth Bridge (BTB) like AsteraBox or use a light with a built-in BTB such as LunaBulb.
- Follow the specific instructions for connecting AsteraBox or the light as BTB.
- Power on the AsteraBox and connect it directly from the AsteraApp main menu following the provided instructions.
- **Note:** This works only for Astera lights with built-in Bluetooth.
- For other Astera lights, use an AsteraBox as BTB. Power on the light and follow the instructions to connect it as a BTB using a White Remote (ARC3) for LunaBulb.
- You can also use a PrepInlay or PrepCase for LunaBulb as a BTB.
- Refer to the corresponding manual for more information.

FAQ

- **Q: How do I switch on the LunaBulb?**
 - **A:** Screw the LunaBulb into a socket connected to a power supply to switch it on automatically.
- **Q: Can I control the LunaBulb with the AsteraApp?**
 - **A:** Yes, you can control the LunaBulb with the AsteraApp by connecting a Bluetooth Bridge (BTB) like AsteraBox or using a light with a built-in BTB.

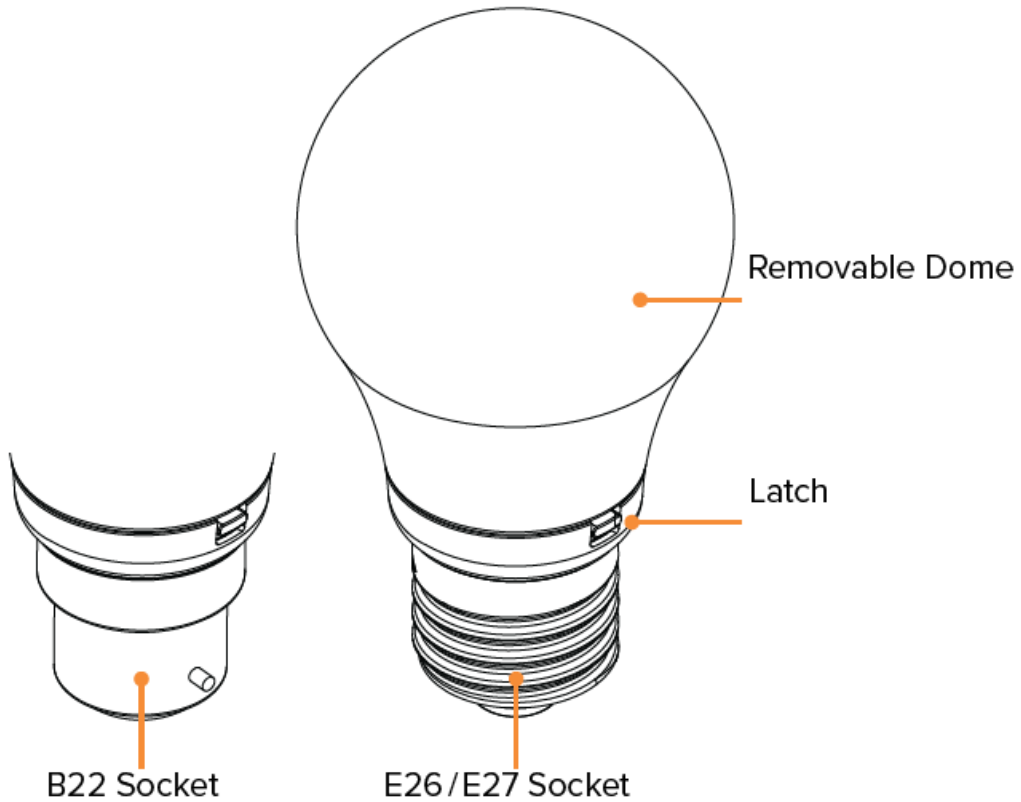
• **Q: What control options are available for LunaBulb?**

- **A:** LunaBulb offers Bluemode, Static Colors, Preprogrammed Effects, and more control options through the AsteraApp.

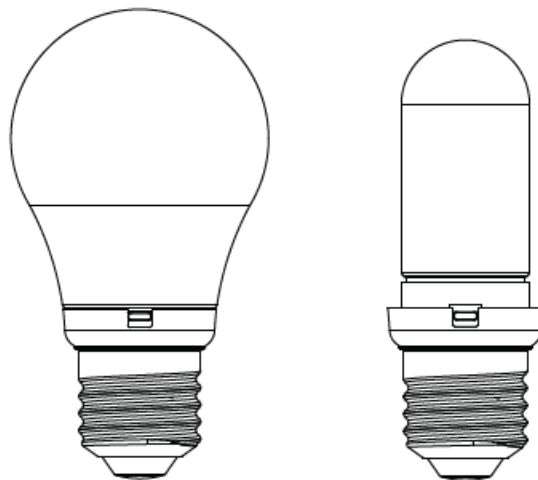
CONTENT

1. LunaBulb (FP7-E26 / FP7-E27 / FP7-B22)
2. User Manual

PRODUCT OVERVIEW



Classic Look vs. Slim Look



USAGE

Switching On/Off

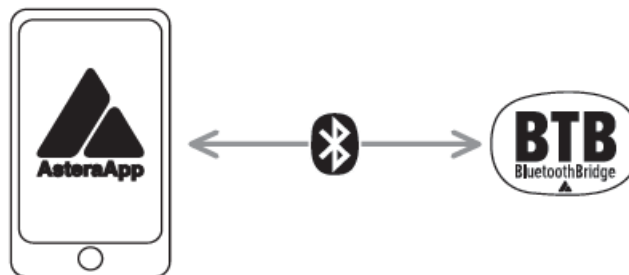
- To switch on the LunaBulb, it must be screwed into a socket that is connected to a power supply.
- It then switches on automatically.
- As long as it is supplied with power, it is not possible to switch the fixture off.

More Control Options

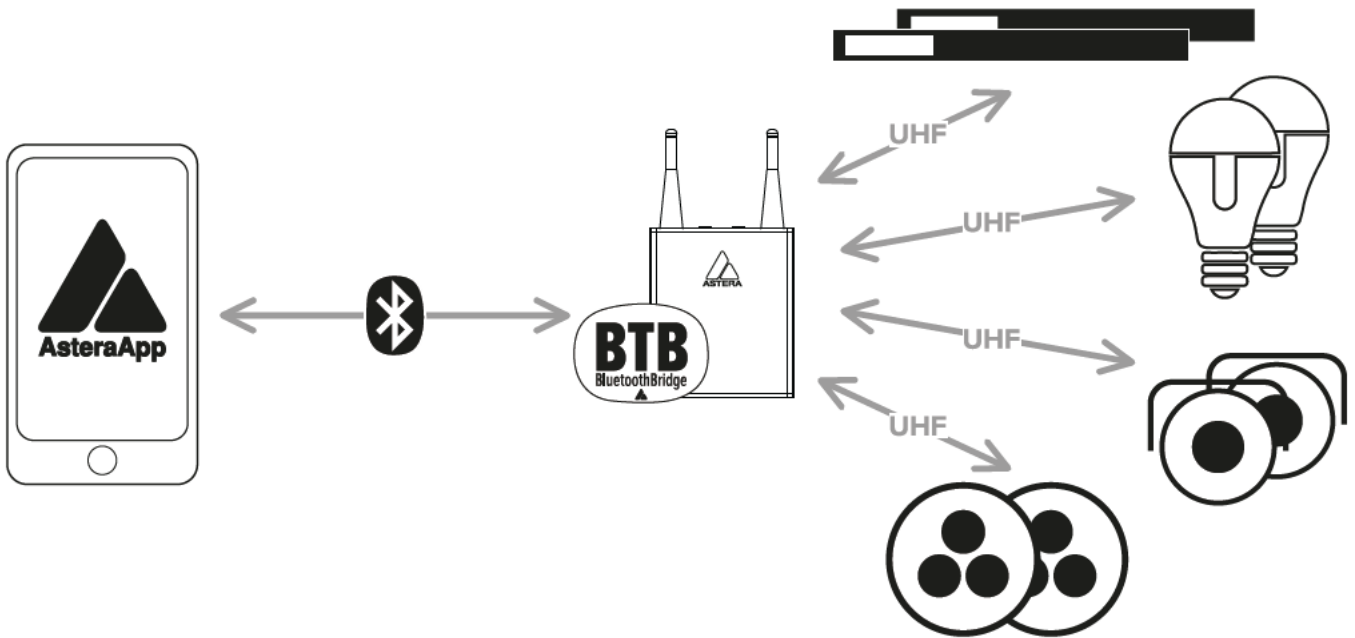
- **IR**))) Bluemode, Static Colors,
- **APP**))) All settings, Complex effects, Talkback+, Updates
- **DMX**))) Control from DMX consoles via CRMX or W-DMX

Connect BTB

- To control your lights with the AsteraApp, first connect a Bluetooth Bridge (BTB).
- It forwards the AsteraApp signal to paired lights.
- You may use an AsteraBox as BTB or choose a light with built-in BTB, like LunaBulb, AX9, NYX Bulb, PixelBrick, Titan Tube BTB, and Helios Tube BTB.
- You can also connect a PrepInlay/ PrepCase for LunaBulb as a BTB.



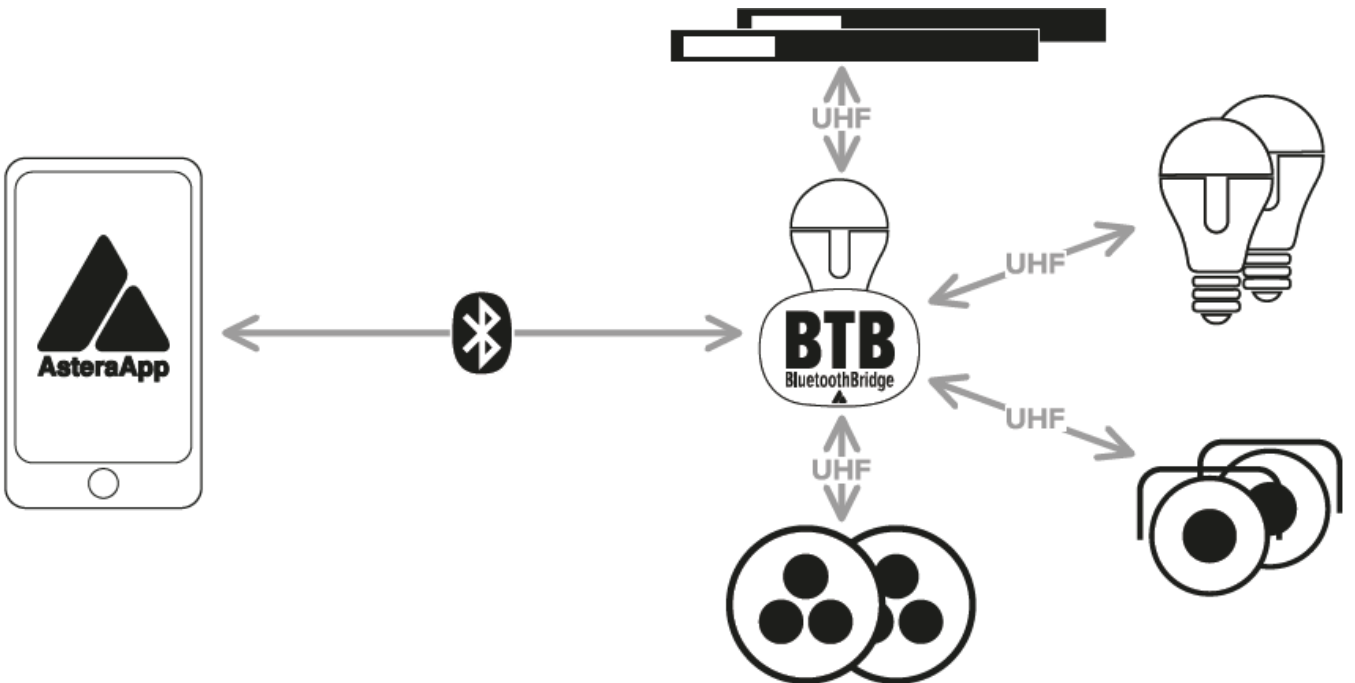
Connect AsteraBox as BTB



- Please power on the AsteraBox.
- Connect the AsteraBox directly from the AsteraApp main menu by following the instructions there.

Connect light as BTB

- **Please note:** This ONLY works for Astera lights with built-in Bluetooth.
- For all other Astera lights, please use an AsteraBox as BTB.



Please power on the light. Hold down the power button for 3 seconds until the light flashes blue. If you are using a LunaBulb as BTB you must use a White Remote (ARC3) to activate BlueMode. In the AsteraApp press „Manage Bluetooth Bridges“, then “+” and follow the instructions on the screen to connect. The light which is connected as BTB shows a small Bluetooth icon in the display.

1. LunaBulb



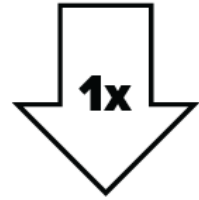
ON



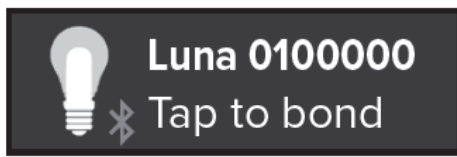
2. White Remote



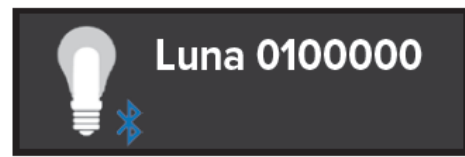
3. White Remote



3. AsteraApp

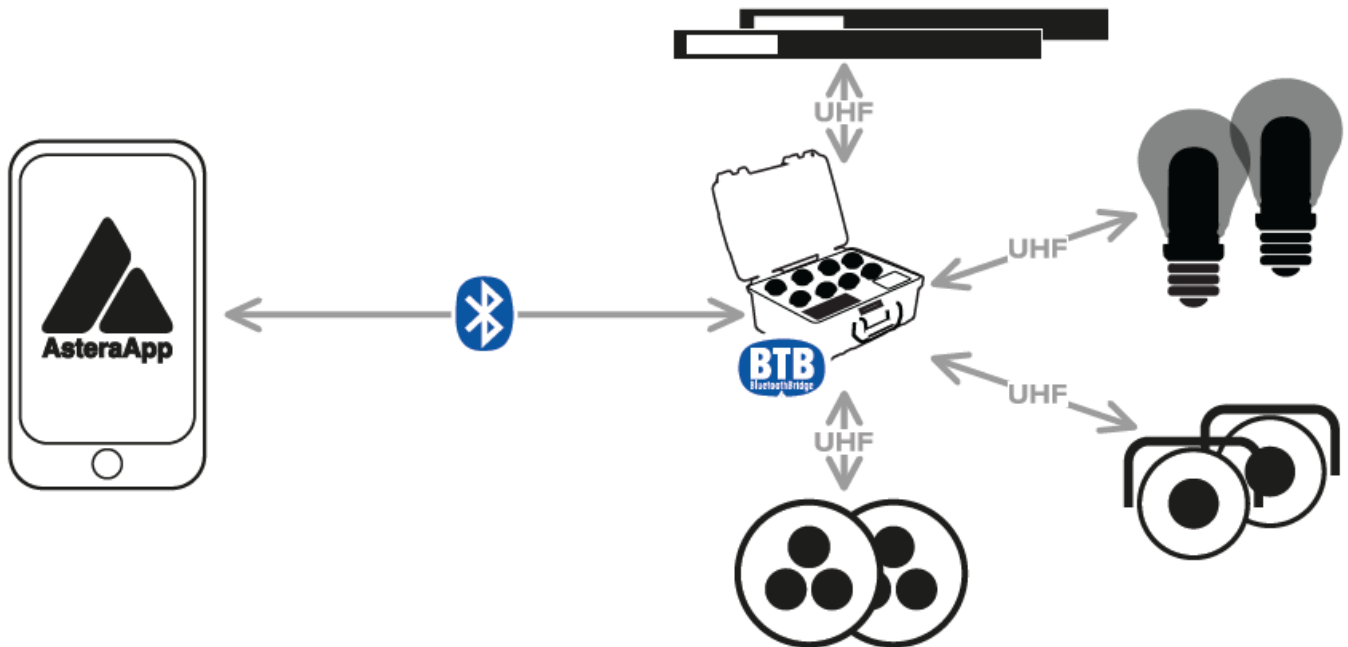


4. AsteraApp



Connect Preplnlay

- Alternatively, a Preplnlay or PrepCase for LunaBulb can also be used as a BTB.
- You can find more information on this in the corresponding manual.



Pair with lights

Connect the LunaBulbs to power. Use the White Remote (ARC3) and press the “Bluemode 1/2” button first and then within 5 seconds “Bluemode 2/2” button to pair the LunaBulb with the AsteraApp. (Alternatively, if the light is in a Preplnlay/PrepCase for LunaBulb, press the Bluemode button on the Preplnlay/PrepCase.) Go to the „Pair with Lights“ dialog in the AsteraApp. Then press OK.

1. LunaBulb



ON

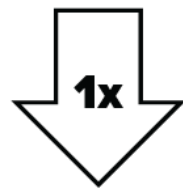
2. White Remote



3. White Remote

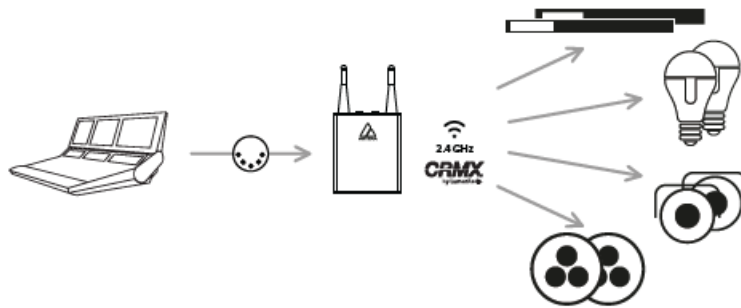


4. AsteraApp



Pair with Lights

Linking to a CRMX transmitter



1. LunaBulb



ON

2. White Remote



3. White Remote



4. AsteraApp



Pair with Lights

5. AsteraApp



Unlink CRMX

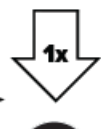
6. AsteraApp



7. AsteraBox



WAIT TILL LINK

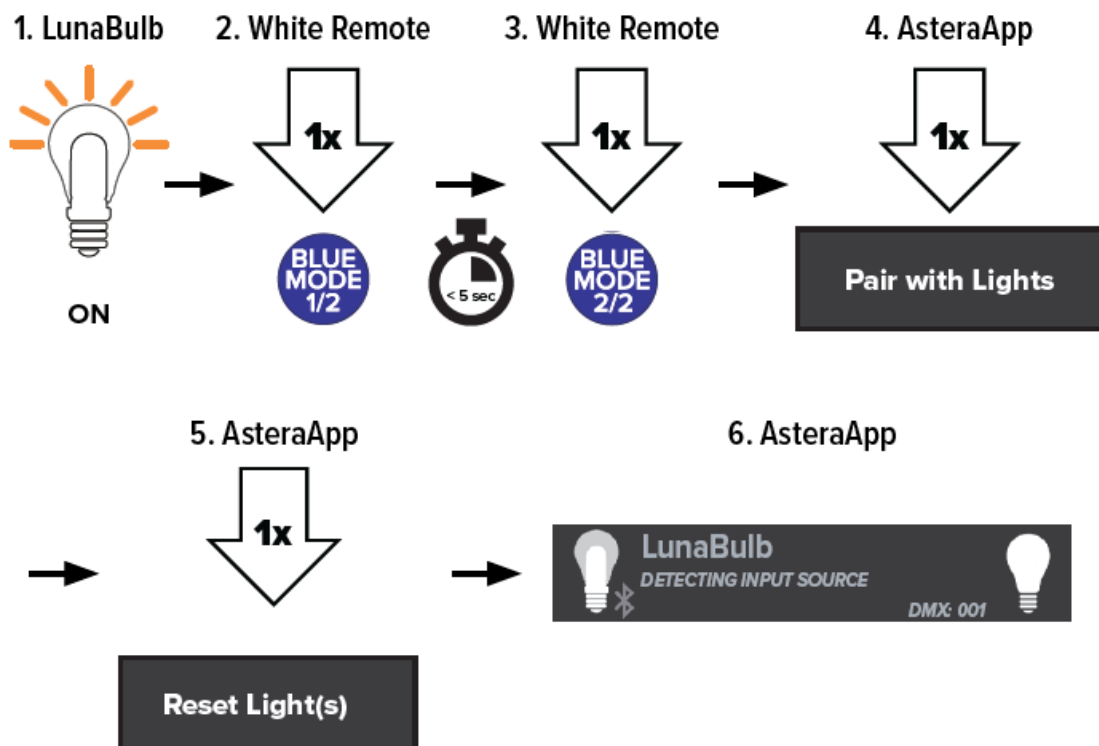


8. AsteraApp



Reset

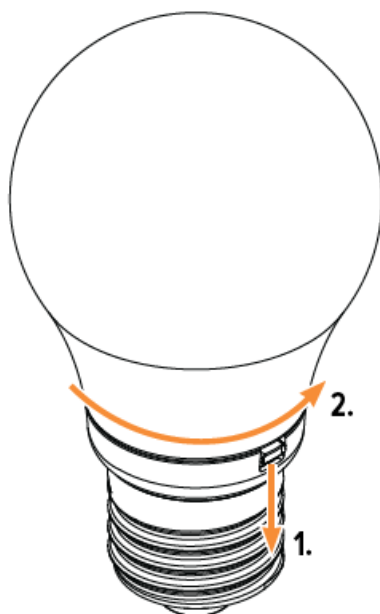
- Reset sets „Input Select“ to „AUTO“ and runtime to MAX.



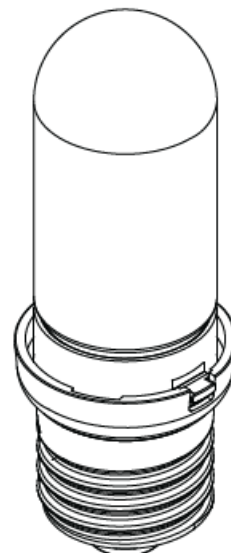
Assembly

- To remove the dome for LunaBulb, press the latch down and turn the dome counterclockwise to remove it.
- To reattach the dome, simply turn it clockwise until you hear it click into place.

Classic Look



Slim Look



INTRODUCTION

INTENDED USE

- The LunaBulb by ASTERA is a single-pixel LED bulb for professional use in the event and film business. The LunaBulb is designed for direct or indirect lighting of people, objects, or scenery. The LunaBulb features the Titan LED engine with excellent color rendering. The LunaBulb produces white or colored light and the color

temperature can be adjusted in many ways. The LunaBulb can be controlled with the AsteraApp or wireless CRMX. It can also be used with an infrared remote control. Thanks to its built-in Bluetooth it can be used as a BluetoothBridge (BTB). It can be powered by AC from an E26 / E27 / B22 socket.

- The LunaBulb can be used indoors and outdoors and has an IP44 rating.
- 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.
- The specified ambient temperature must be maintained. Keep away from direct insulation (particularly in cars) and heaters.
- Never use the device during thunderstorms connected to the power mains. Overvoltage could destroy the device. Always disconnect the device during thunderstorms.
- Make sure that the area below the installation place is blocked when rigging, derigging, or servicing the fixture.
- Operate the device only after having become familiarized with its functions.
- The device is not dimmable via standard dimmers. Use AsteraApp for dimming.
- Please consider that unauthorized modifications on the device are not allowed due to safety reasons! If this device is operated in any way different from the one described in this manual, the product may suffer damages and the warranty might be voided. The disclaimer includes all damages, liability, or injury resulting from failure to follow the instructions in this manual. Furthermore, any other operation may lead to dangers like short circuits, burns, electric shocks, crashes, es, etc. This device is not for household use and is not suitable for permanent installation.

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.

Please use your caution when operating.

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 may cause abnormal function or damage the product.
- Make sure the unit is mounted properly and safely according to local safety requirements.
- Do not open the product housing.
- Do not place in fire or heat.
- Do not use the unit if it is damaged.
- Avoid bumping or plunging.
- Do not submerge the unit into any liquid.
- Do not use standard dimmers.



- Do not look directly into the light. it can cause harm to your eyes.
- Do not look into the light source with 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 unit is damaged.
- Do not submerge the unit into any liquid.
- Do not replace the LED light source.
- Caution, risk of electric shock.



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



CLEANING AND MAINTAINING

Caution: Liquids entering the housing of the device can cause a short circuit and damage the electronics. Do not use any cleaning agents or solvents. Only clean using a soft damp cloth.

TROUBLESHOOTING

Problem	Possible cause	Solution
The fixture does not turn on.	The device is not supplied with power.	Connect it to the AC and try again.
The fixture turns on but the LEDs do not emit light.	The fixture could be set to BLACK OUT mode or is operating in DMX mode and doesn't receive a valid signal. Set to display black color.	It is good practice to do a RESET SETTINGS.
The fixture is not working correctly – it does not display the color or effect chosen.	The fixture may still be operating under a previous setting.	It is good practice to do a RESET SETTINGS between setups.

DISPOSAL

- Don't throw the unit into the garbage at the end of its lifetime.
- Make sure to dispose of it according to your local ordinances and/or regulations, to avoid polluting the environment!
- The packaging is recyclable and can be disposed of.



MANUFACTURER DECLARATION

- Hereby, Astera LED Technology GmbH declares that the type of radio equipment LunaBulb complies with Directive 2014/53 / EU.
- The full text of the EU Declaration of Conformity is available at the following Internet address: <https://astera-led.com/lunabulb>.

FCC STATEMENT

Astera LED Technology GmbH declares that this equipment has been tested and found to comply with the limits for a Class B digital device, according to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used under the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC RF Radiation Exposure Statement Caution: To maintain compliance with the FCC's RF exposure guidelines, place the product at least 20cm from nearby persons.

SPECIFICATIONS TECHNICAL DATA

Order Codes	FP7-E26 FP7-E27 FP7-B22
LED Engine	Titan LED Engine

Colors	RGBMintAmber
Total LED Power	5.25 W
LED Power Draw	3.3 W
Luminous Flux 3200 K (with dome)	149 Lumens
Luminous Flux 4000 K (with dome)	154 Lumens
Luminous Flux 5500 K (with dome)	160 Lumens
Light Output 3200 K @ 1 m (with dome)	18.3 Lux
Light Output 4000 K @ 1 m (with dome)	18.8 Lux
Light Output 5500 K @ 1 m (with dome)	19.6 Lux
CRI (Ra)/ TLCI 3200- 6500 K*	≥96
Beam Angle (with dome)	240°
Field Angle (with dome)	338°
Strobe	0 – 25 Hertz
Pixels	1
DC Input	No
AC Input	FP7-E26: 100-120 VAC, FP7-E27: 100-240 VAC, FP7-B22: 100-240 VAC
AC Connector	E27 / E26 / B22
Power Consumption (max.)	4.25 W
Wired DMX	No
CRMX Receiver	Built-in
BluetoothBridge BTB	Built-in
Wireless Protocols	CRMX, UHF, Bluetooth, WiFi

Wireless Range	CRMX/UHF up to 100 m / 110 yds Bluetooth up to 3 m / 3.3 yds
RDM Support	Wireless
Infrared Control	Yes
Housing Material	Metal & Polycarbonate
IP Rating	IP44 – Depending on the socket used
Ambient Operating Temperature	0 – 40 °C / 32 – 104 °F
Weight	0.081 kg / 0.179 lbs
Dimensions Classic Look (Ø x H)	<p>Ø 55 mm x 99 mm (E26) / Ø 2.17" x 3.90" (E26)</p> <p>Ø 55 mm x 100 mm (E27) / Ø 2.17" x 3.94" (E27)</p> <p>Ø 55 mm x 98.6 mm (B22) / Ø 2.17" x 3.88" (B22)</p>
Dimensions Slim Look (Ø x H)	<p>Ø 27 mm / Ø 33 mm x 91.6 mm (E26) / Ø 1.06" / Ø 1.30" x 3.61" (E26)</p> <p>Ø 27 mm / Ø 33 mm x 92.6 mm (E27) / Ø 1.06" / Ø 1.30" x 3.65" (E27)</p> <p>Ø 27 mm / Ø 33 mm x 91.2 mm (B22) / Ø 1.06" / Ø 1.30" x 3.59" (B22)</p>
All specifications provided are typical values and may be subject to change without prior notice.	

RF CHARACTERISTICS

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

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

Frequency ran ge in MHz1)	Maximum equivalen t radiant power (ER P)	Additional parameters/frequency access and interference mitigat ion techniques
865 – 868	25 mW	Requirements for frequency access and mitigation techniques) Alternatively, a maximum duty cycle) of 1% can be used.
868,0 – 868,6	25 mW	Requirements for frequency access and mitigation techniques) Alternatively, a maximum duty cycle) of 1% can be used.
868,7 – 869,2	25 mW	Requirements for frequency access and mitigation techniques) Alternatively, a maximum duty cycle) of 0.1% can be used.
869,40 – 869,65	500 mW	Requirements for frequency access and mitigation techniques) Alternatively, a maximum duty cycle) of 10% can be used.
869,7 – 870,0	25 mW	Requirements for frequency access and mitigation techniques) Alternatively, a maximum duty cycle) of 1% can be used.

1. The use of adjacent frequency bands within this table as a single frequency band is permitted, provided that the specific conditions for each of these adjacent frequency bands are met.
2. „duty cycle“ means the ratio of $\Sigma(T_{on})/(T_{obs})$ expressed as a percentage, where ‚Ton‘ is the ‚on-time‘ of a single transmitting device and ‚Tobs‘ is the observation period Ton is measured in an observation frequency band (Fobs). Unless otherwise specified in this general allocation, Tobs is a continuous period of one hour and Fobs

is the applicable frequency band in this general allocation (table).

3. Frequency access and interference mitigation techniques shall be used whose performance level at least meets the essential requirements of Directive 2014/53/EU or the Radio Equipment Act (FuAG). Where relevant techniques are described in harmonized standards, the references of which have been published in the Official Journal of the European Union pursuant to Directive 2014/53/EU, or parts thereof, performance shall be ensured which is at least equivalent to those techniques.

CONTACT

- Astera LED Technology GmbH
- Schatzbogen 60
- 81829 Munich
- Germany
- info@astera-led.com | www.astera-led.com

ORDER CODE

- FP7-E26 / FP7-E27 / FP7-B22
- MANUAL VERSION: 6.0
- DATE OF ISSUE: 30.09.2024
- www.astera-led.com/lunabulb



Documents / Resources



[ASTERA FP7-E26 LED Luna Bulb With Receiver](#) [pdf] User Manual
FP7-E26, FP7-E27, FP7-B22, FP7-E26 LED Luna Bulb With Receiver, FP7-E26, LED Luna Bulb With Receiver, Luna Bulb With Receiver, Bulb With Receiver, With Receiver, Receiver

References

- [LED Commercial Lighting and Lighting Controls | Current - GLI Brands](#)
- [User Manual](#)

[Manuals+](#). [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.