



ASTERA FP6-SET HydraPanel LED 4-Light Kit User Manual

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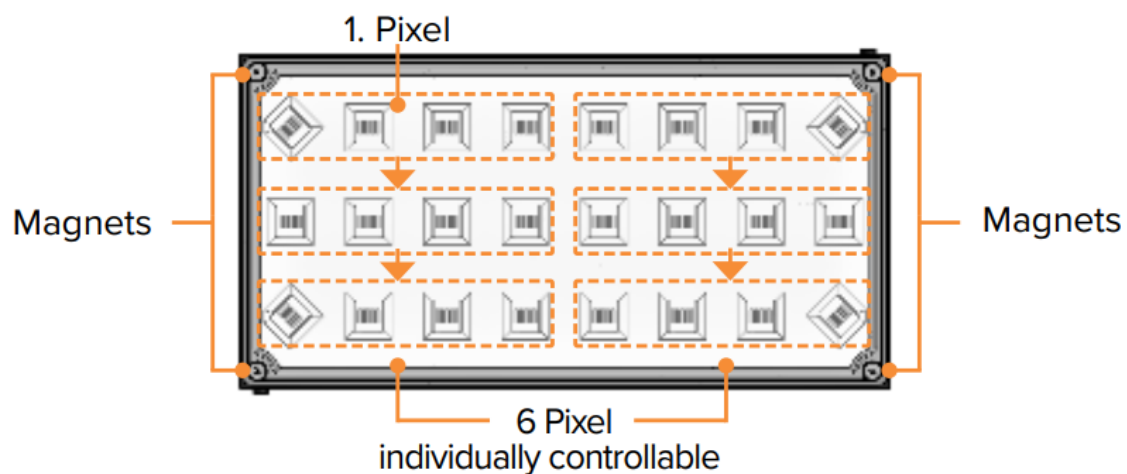
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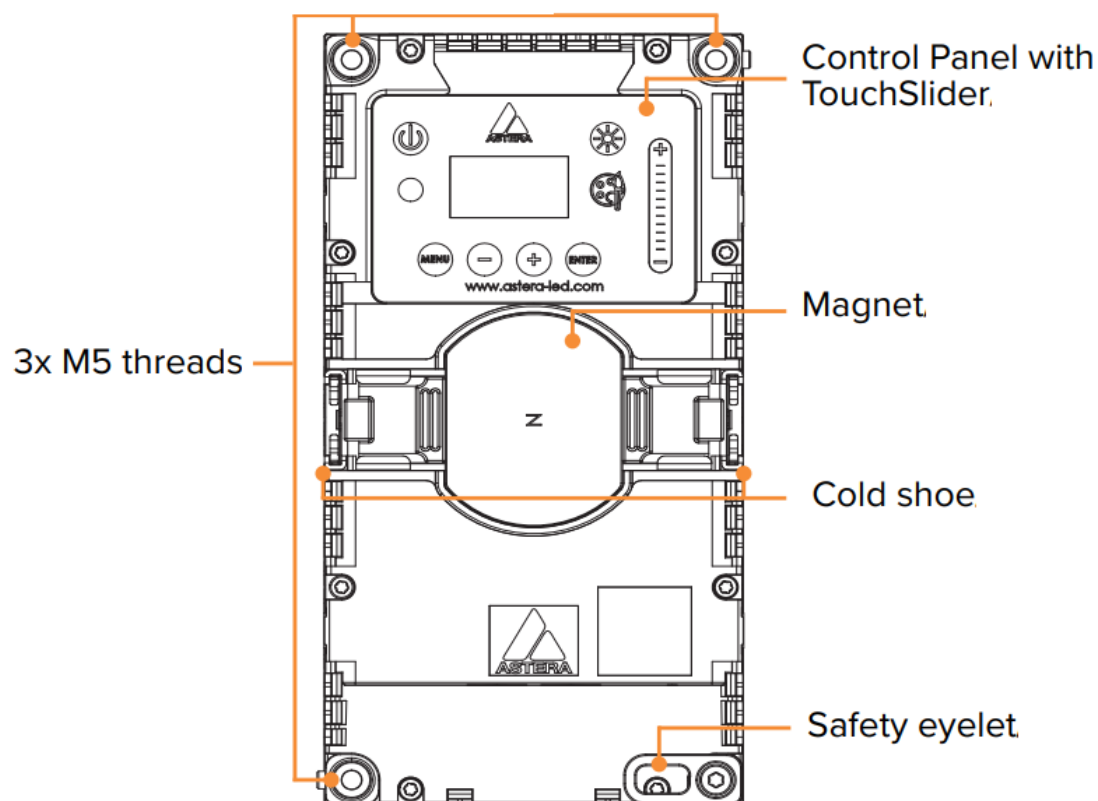
1. HydraPanel (FP6)
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PRODUCT OVERVIEW

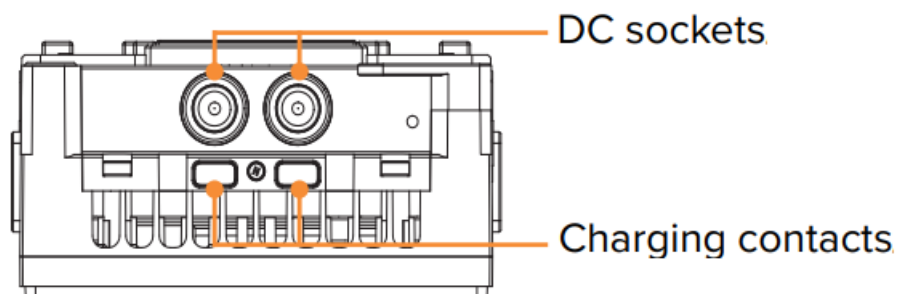
Front



Back



Side view



USAGE

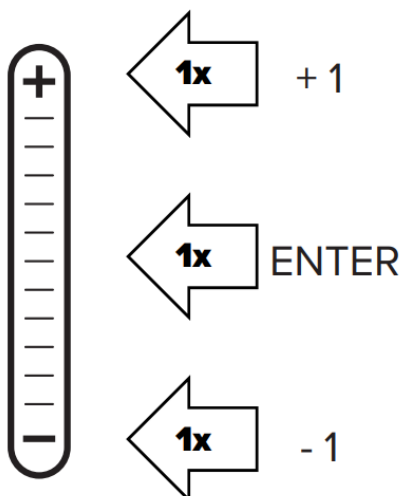
1. Integrated control panel

Use the menu buttons to navigate through the main menu. Settings for color adjustment and brightness / runtime are directly accessible by two symbol buttons.

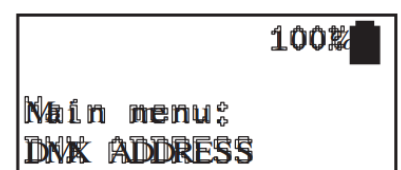
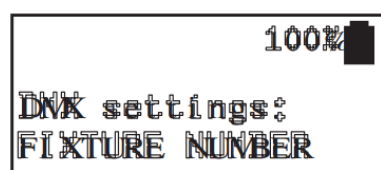
	Top navigation	Inside Main Menu
	On/Off	
	Main Menu	Back to previous menu
	Reset Settings	Scroll down
	Change Input Select	Scroll up
	Set DMX Address	Choose/Confirm
	Color adjustment	
	Brightness and runtime control	

TouchSlider





The HydraPanel has a touch slider. It is only active in certain menus and can also be operated by tapping.



Active in these 4 menus:



2. More control options

	On/Off, Static Colors, Preprogrammed Effects
	All settings, Complex effects, Talkback+, Updates
	Control from DMX consoles via CRMX or Wireless DMX
	Control from DMX consoles via Power/Data Combination Cable

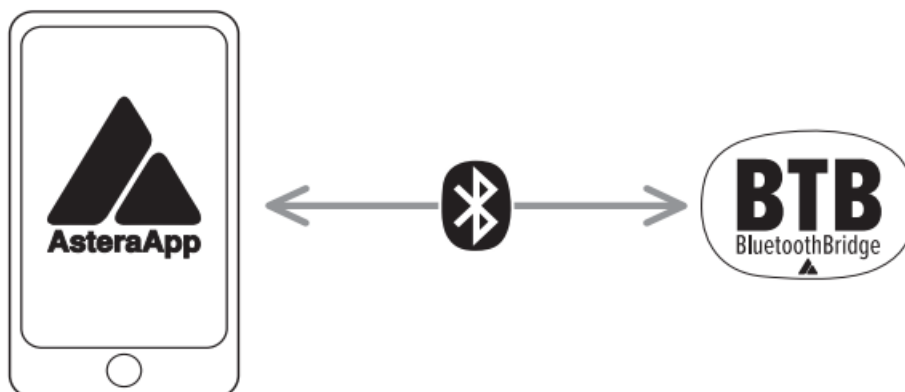
3. Switching On/Off



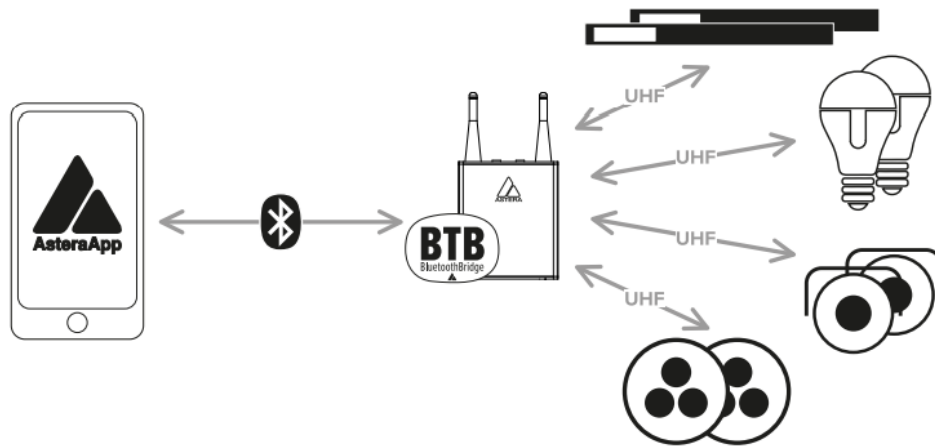
A new HydraPanel needs a few seconds of charge to disable its shipping mode before it can be switched on.

4. 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 HydraPanel, AX9, NYX Bulb, PixelBrick, Titan Tube BTB, Helios Tube BTB.



Connect AsteraBox as BTB

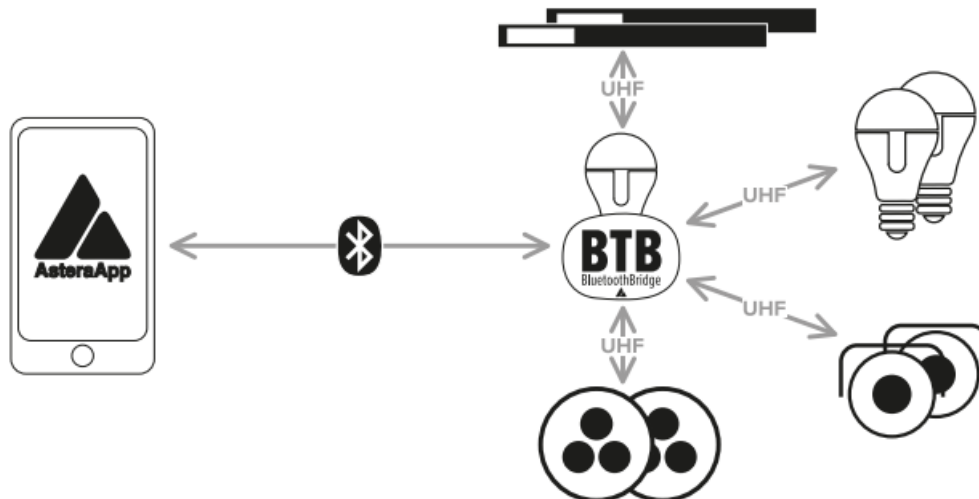


Please power on the AsteraBox. Connect the AsteraBox directly from the AsteraApp main menu by following the instructions there.

Connect light as BTB

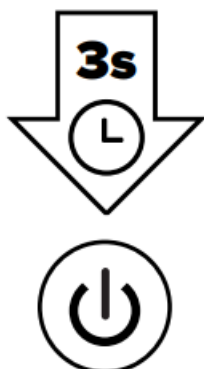
Please note: This ONLY works for Astera lights with built-in Bluetooth.

For all other Astera lights, please use an AsteraBox as BTB.

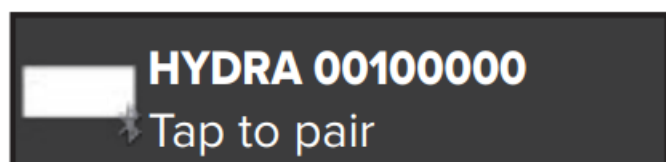






Please power on the light. Hold down the power button for 3 seconds until the light flashes blue. In the AsteraApp press „Manage Bluetooth Bridges“, then “+” and follow instructions on screen to connect. The light which is connected as BTB shows a small Bluetooth Icon in the display.

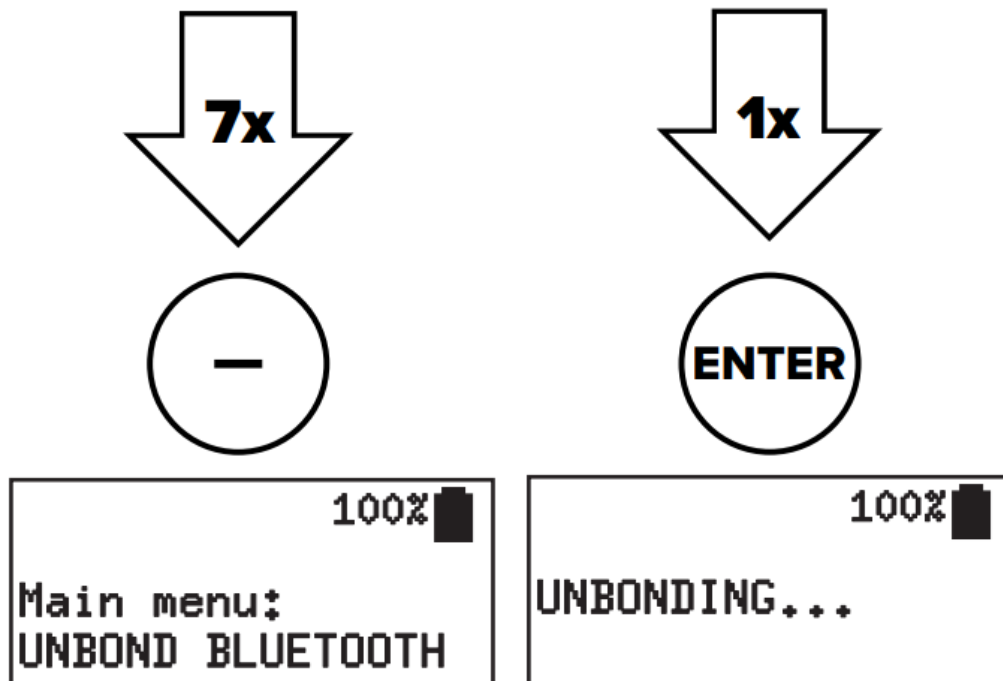
1. HydraPanel



2. AsteraApp



 100%  APP CONTROL SET:--- DMX:001	The lights' BTB is connected to the AsteraApp.
 100%  APP CONTROL SET:--- DMX:001	The BTB is enabled and waiting for a connection.

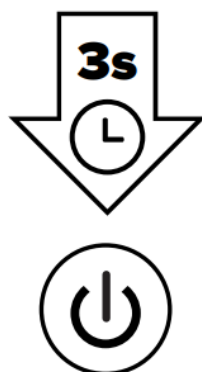


To disable the BTB again press UNBOND BLUETOOTH.

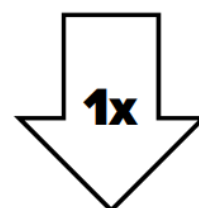
5. Pair with lights

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 AsteraApp. Then press OK.

1. HydraPanel

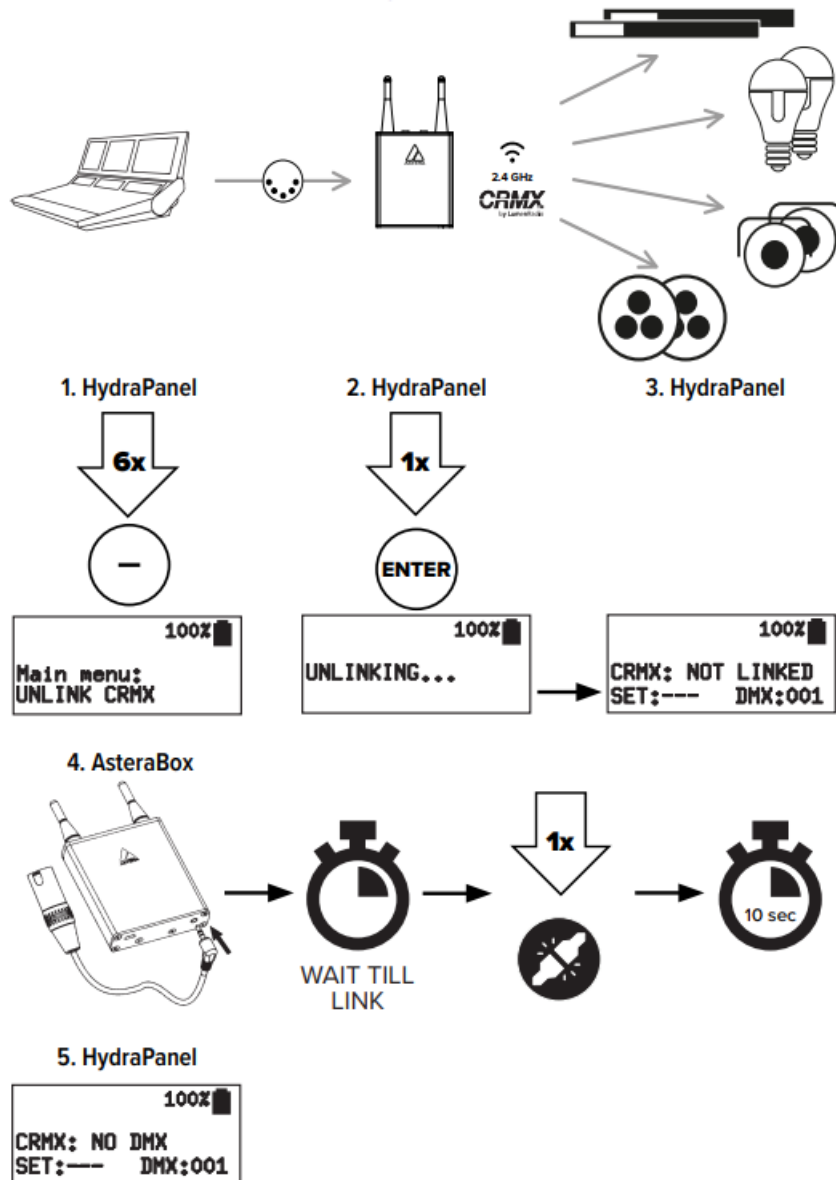


2. AsteraApp



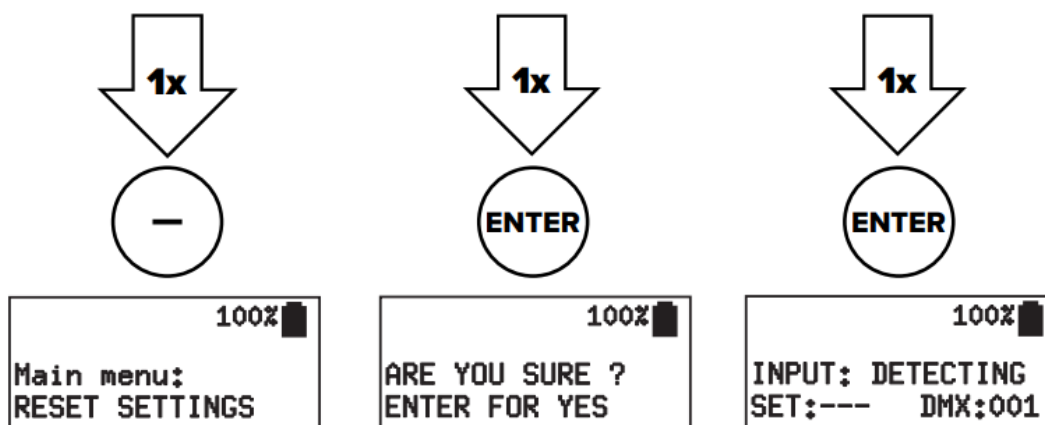
Pair with Lights

6. Linking to a CRMX transmitter



7. Reset

RESET to unlink CRMX and unbond Bluetooth. Sets „Input Select“ to „AUTO“ and runtime to 5h.



8. Charging

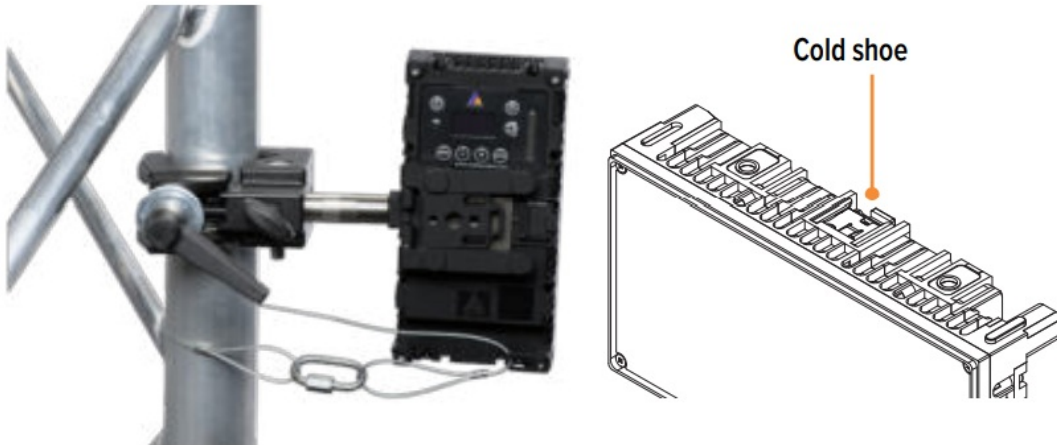
While the power cable is connected, the display shows the charging status. Charge immediately when the battery is empty. Do not store the unit when the battery is empty. Charging time is approximately 3 hours.

9. Rigging

A BabyPin 1/4" (AX-BBP-1/4) can be attached using the FlexBase (FP6-FB), which allows mounting with a Griphead/Superclamp.

Furthermore, the HydraPanel is equipped with 3 M5 threads and a safety eyelet on the back.

When hanging, always secure with a safety wire in the safety eyelet on the back. Make sure the light cannot drop more than 20cm if primary mounting fails. Always provide one mounting point per four HydraPanels.



10. Combining HydraPanels

Up to four HydraPanels can be connected together using the ConnectorPlates. The integrated ControlSync function allows settings to be made on the first panel, which are then transferred to the other connected panels.



ConnectorPlate

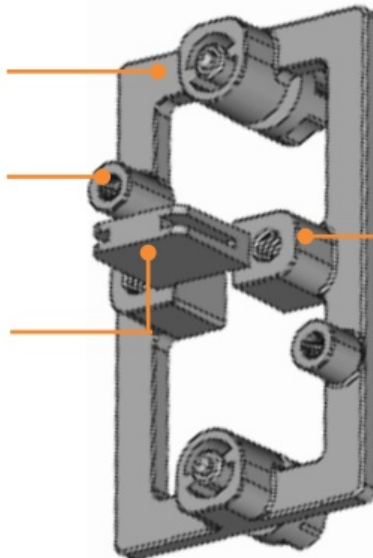
(FP6-CP)

1/4-Turn Locking Screw

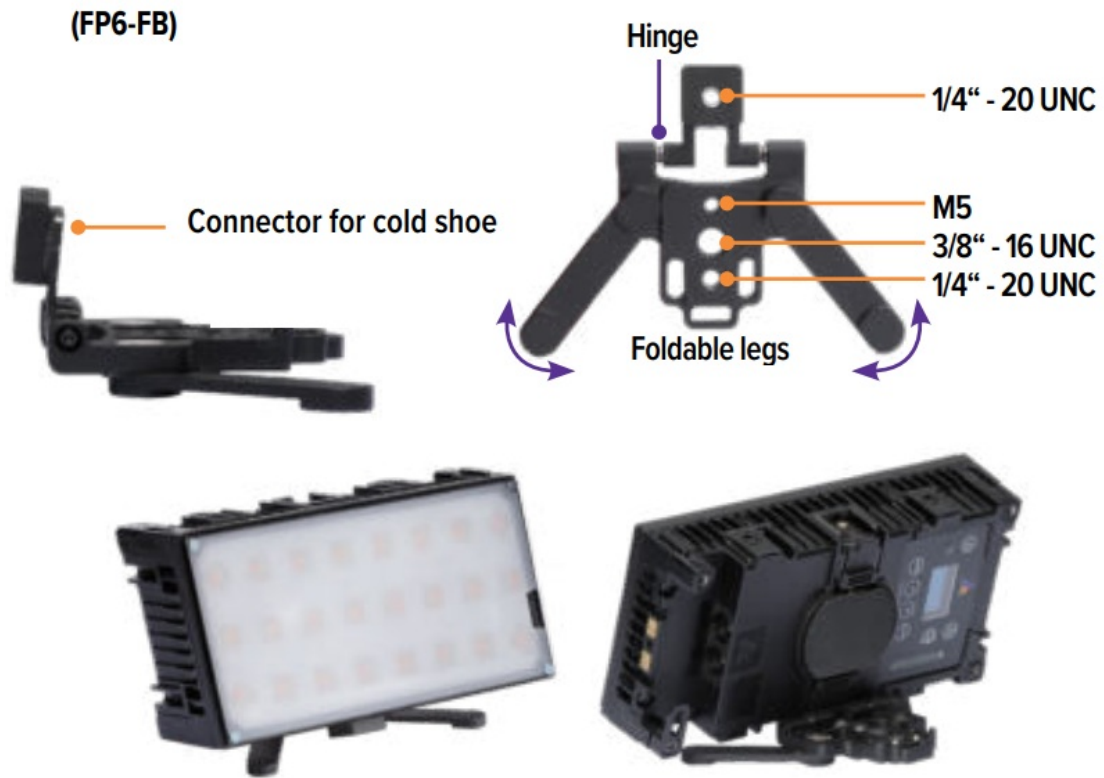
M5

Connector for cold shoe

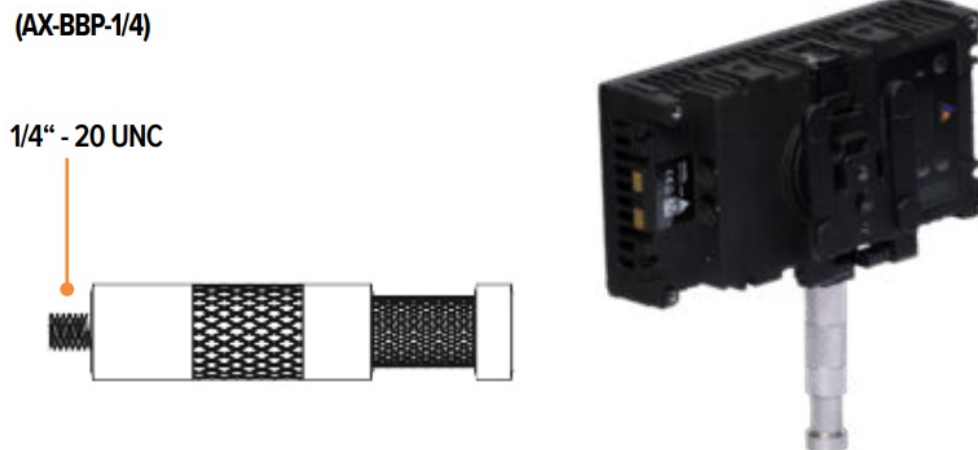
1/4" - 20 UNC



FlexBase



The FlexBase equips the HydraPanel with various threads and can also be used as a tiltable stand.
BabyPin 1/4"



11. Multiple Light modifier

The HydraPanel comes with a wide range of light modifiers, all of which can be easily clipped onto the surface of the panel using four magnets in the corners.

DiffusorSheet 100

(FP6-DS-100)

Softens the beam while still looking flat.

Can be combined with EggCrates.



Intensifier 80

(FP6-INT-80)

Creates soft shadows while maintaining a similar brightness level as the bare LEDs and approximately 1.5 times the brightness level compared to using the SoftFrame 100. Can be combined with EggCrates.



EggCrate 40

(FP6-EGC-40)

EggCrate 60

(FP6-EGC-60)

Narrows the beam and reduces spill light on the side.



SoftFrame 100

(FP6-SF-100)

Creates soft shadows and gives the HydraPanel a homogenous surface.



INTRODUCTION / INTENDED USE

The HydraPanel from ASTERA is a LED softlight with 6 pixels for professional use in the event and film business. The HydraPanel is designed for direct or indirect illumination of persons, objects or sceneries. Due to its built-in battery it can be quickly set up at places where traditional lights cannot be mounted easily. The HydraPanel has the Titan LED Engine and offers excellent color and light values. The HydraPanel generates white or colored light and the color temperature can be adjusted in many ways. The HydraPanel can be controlled with the AsteraApp or with wired DMX or wireless CRMX. The device can also be controlled by the integrated display with touch slider or by infrared remote control.

The HydraPanel can be used in multiple ways, including hanging. For this purpose, the device is equipped with a safety eyelet on the back. The HydraPanel can be used indoors and outdoors and has an IP65 rating (only wired with PWB-CAB-0.2/5/10/15 or with DC Covers (PB15-PLG) on sockets).

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 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.

Always fix the fixture with an appropriate safety wire.

Operate the device only after having become familiarized with its functions.

Please consider that unauthorized modifications on the device are not allowed 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 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 shortcircuit, burns, electric shock, crash 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 own 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 behavior or damage the product.
- Always use a suitable safety wire when mounting the light overhead.
- Connect the safety wire only to the intended safety mount.
- Always follow local safety requirements.

- Only authorized personal 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 plunging, it may cause fire or explosion.
- Never store the battery when fully drained. Always recharge immediately when empty. Please do not charge unattended.
- Make sure to fully charge all units before storing them.
- Partially charged batteries will lose capacity.
- Fully recharge every 6 months if not used.
- The 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 development
- Heat generation or smoke and gas development.
- Do not directly look into the light.
- It can cause harm to your eyes.
- Do not look at the LEDs 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 light is damaged.
- Do not submerge the light into any liquid.
- Do not replace the LED light source.
- Caution, risk of electric shock.



- 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.
- Install only in ventilated locations.
- Do not cover the light.
- Allow all lights to cool before touching.
- Keep 0.3m (12in) 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.

SECONDARY SAFETY MOUNTING



The HydraPanel must always be secured by a safety wire when used in a hanging position. If the primary suspension fails, the device must not fall more than 20cm.



Use safety eyelet on the backside. Please check the safety regulations in your region.

TROUBLESHOOTING

Problem	Possible cause	Solution
The fixture does not turn on.	The battery may be empty.	Connect it to the AC and try again.
The fixture turns on and the display is on, but the LEDs do not emit light	The fixture could be set to BL ACKOUT mode. Set to display black color or is operating in DMX mode and doesn't receive a valid signal.	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.
The power cable is connected but the fixture is not charging.	The battery may be fully charged.	The fixture will only commence charging when its battery has a temperature of 45° C or less. Turn the fixture off and let it cool down; once cold enough, it will start charging.



DISPOSAL

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

MANUFACTURER DECLARATION

Hereby, Astera LED Technology GmbH declares that the type of radio equipment HydraPanel 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/hydra>.

Astera LED Technology GmbH declares that this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant 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 in accordance with 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 receiver.
- Connect the equipment into 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 Code	FP6
LED Engine	Titan LED Engine
Colors	RGBMintAmber
Total LED Power	25 W
LED Power Draw	17 W
Light Output 5500K*	1298 lm, 516 lx @ lm
CRI(Ra) / TLCI 3200-6500k'	.?96
Beam Angle	110° x 100°
Field Angle	150° x 145°
Strobe	0 – 25Hz
Pixels	6
Battery Runtime	up to 20 hours
Battery Lifetime	70 % after 300 cycles
Battery Runtime max. Brightness	1 h 45 m
Charging Time (nominal)	3 hours
DC Input	24 V; 0.85 A
DC Connector	5.5 mm x 21 mm
Wired DMX	Yes via FP1-PWB / FP3-DTL / PWB-2-86
CRMX Receiver	Built-in
BluetoothBridge BTB	Built-in
Wireless Protocols	CRMX, UHF, Bluetooth, Wifi
Wireless Range	CRMX / UHF up to 300 m / 330 yds Bluetooth up to 3 m / 3,3 yds
ControlSync	Yes
TouchSlider	Yes
Housing Material	Polymer & Metal
IP Rating	IP65 (only with DC Cover)
Ambient Temperature	0 – 40 °C / 32 -104 °F
Weight	0,6 kg /1.3 lbs
Dimensions	166mm x 85mm x 44mm / 6.5" x 3,3" x1,7"

*Typical value

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	–	79
Bluetooth 5.0 LE (2402-2480MHz)	FHSS	10mW (BLE)	40
WiFi (2412-2472MHz)	DSSS, OFDM	100mW	13

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

868,0 – 868,6	25 mW	Requirements for frequency access and mitigation techniques 3) Alternatively, a maximum duty cycle 2) of 1% can be used.
868,7 – 869,2	25 mW	Requirements for frequency access and mitigation techniques 3) Alternatively, a maximum duty cycle 2) of 0.1% can be used.
869,40 – 869,6 5	500 mW	Requirements for frequency access and mitigation techniques 3) Alternatively, a maximum duty cycle 2) of 10% can be used.
869,7 – 870,0	25 mW	Requirements for frequency access and mitigation techniques 3) Alternatively, a maximum duty cycle 2) 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 harmonised 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.

Astera LED Technology GmbH
Stahlgruberring 36
81829 Munich
Germany

info@astera-led.com | www.astera-led.com



www.astera-led.com/hydra

Documents / Resources



[ASTERA FP6-SET HydraPanel LED 4-Light Kit](#) [pdf] User Manual
FP6-SET HydraPanel LED 4-Light Kit, FP6-SET, HydraPanel LED 4-Light Kit, LED 4-Light Kit,
4-Light Kit, Kit

References

- [C Commercial Lighting and Lighting Controls | Current - GLI Brands](#)
- [Wireless LED Lighting Film & Event by Astera](#)
- [mini LED Panel by Astera](#)
- [mini LED Panel by Astera](#)

[Manuals+](#).