



LS 600c Pro II

Product Manual

English

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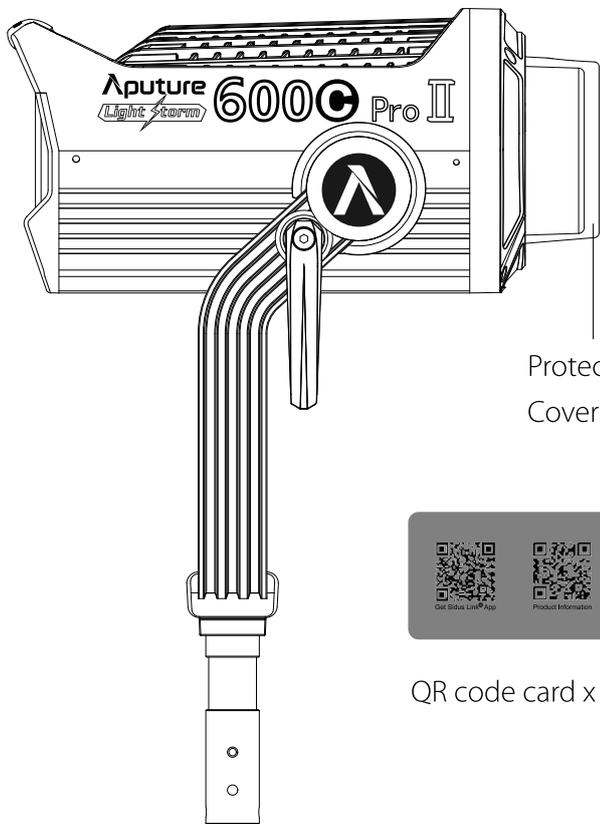
Introduction

Thank you for purchasing the Aputure® "Light Storm" series RGBWW COB light - LS 600c Pro II. The LS 600c Pro II is a high power full color light source with fully tunable CCT (2300K-10,000K). CCT, HSI, xy, RGB, GEL and SOURCE Light Modes are supported along with professional control protocols such as DMX512-A, LumenRadio CRMX, RDM, Art-Net, and sACN, as well as Sidus BT from Aputure. The LS 600c Pro II brings you a powerful, professional lighting solution with industry standard controls, granting you true creative freedom.

Components List

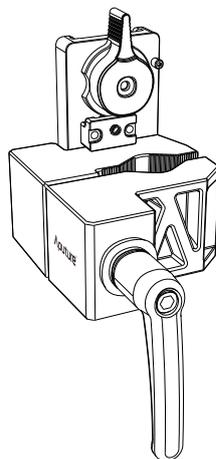
Please check whether the following items are contained in the package before using the product.

Please contact your dealer if there are any missing items.



LS 600c Pro II
Lamp Head x 1

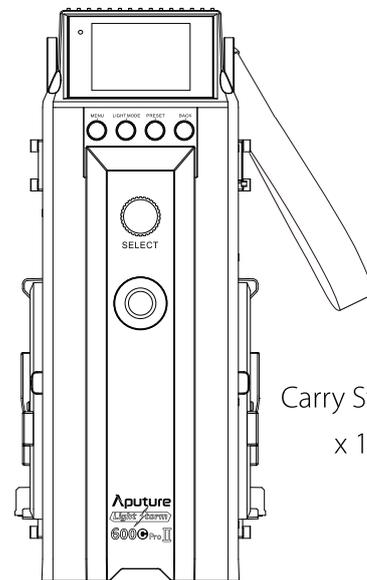
Protection
Cover x 1



Lightning Clamp x 1



QR code card x 1

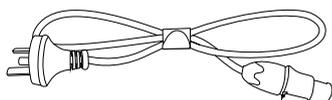


LS 600c Pro II
Control Box x 1

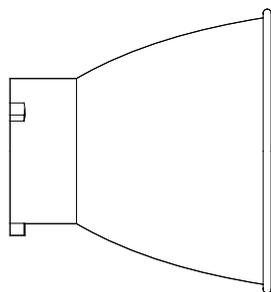
Carry Strap
x 1



LS 600 Series 7-Pin Weatherproof
Head Cable (7.5m) x 1



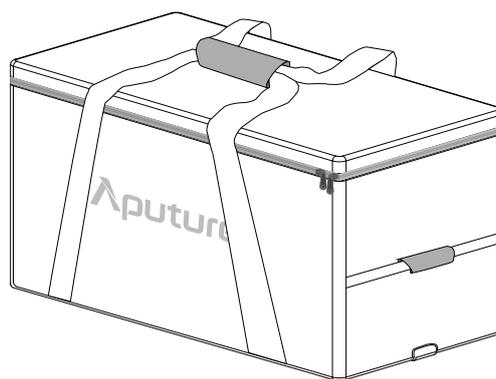
Neutrik® power CON AC
Power Cable (6m) x 1



Reflector x 1



Sticker x 1

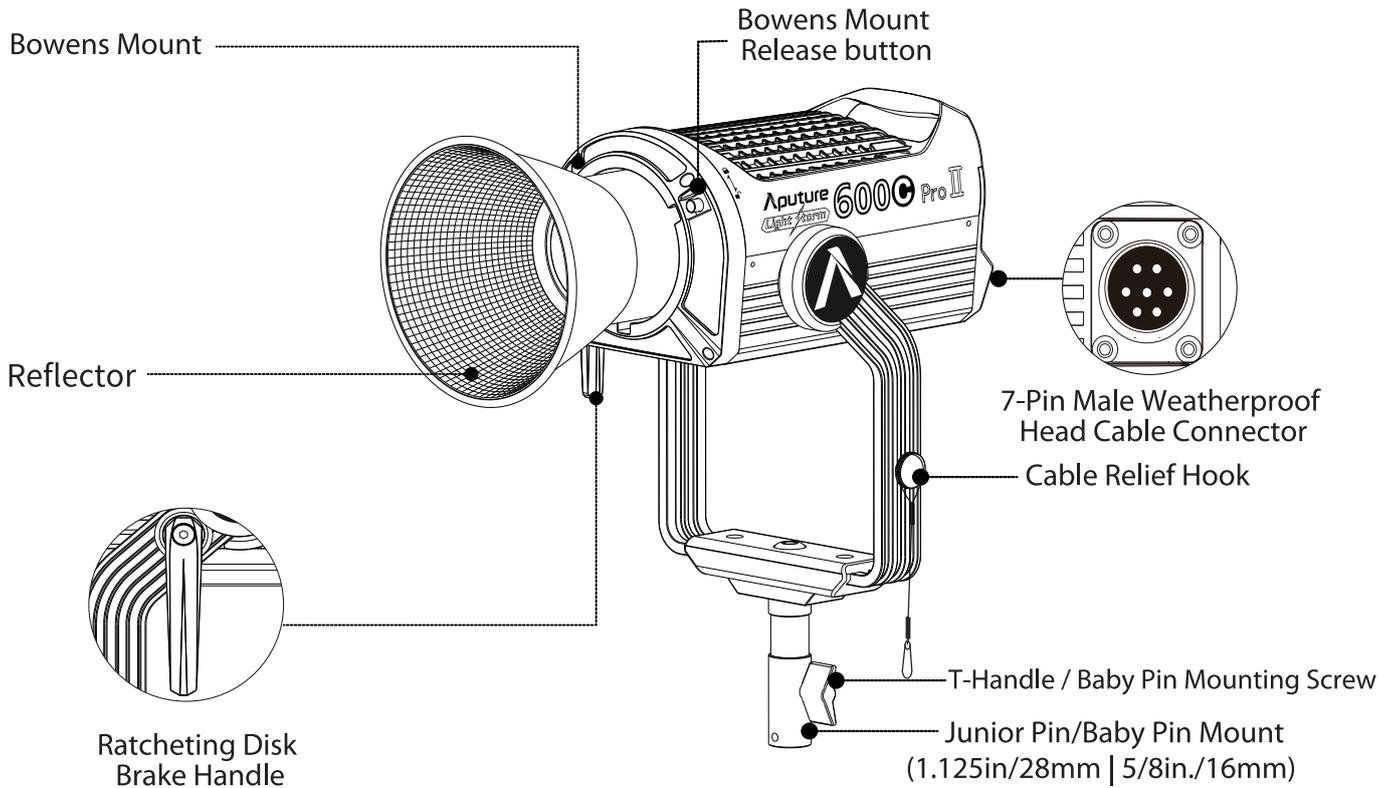


LS 600c Pro II Rolling
Carrying Case x 1

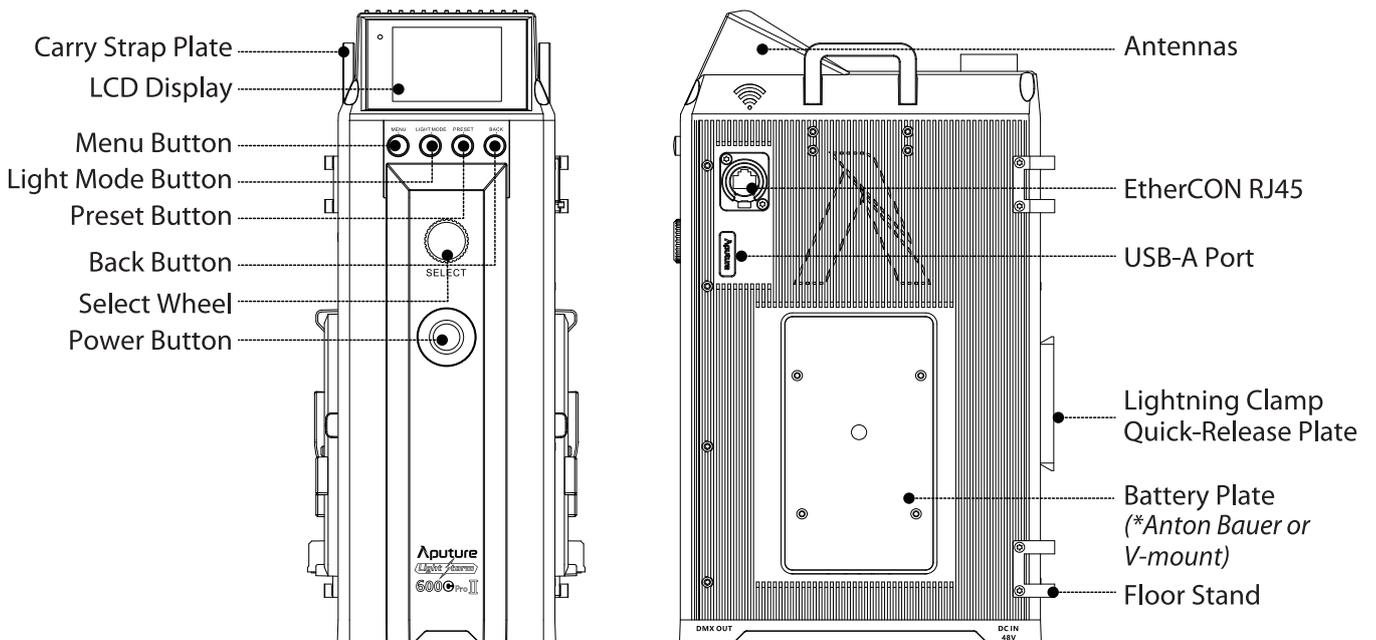
* All illustrations in this manual are for reference only. The physical product may differ from the schematic diagram due to continuous updates and upgrades.

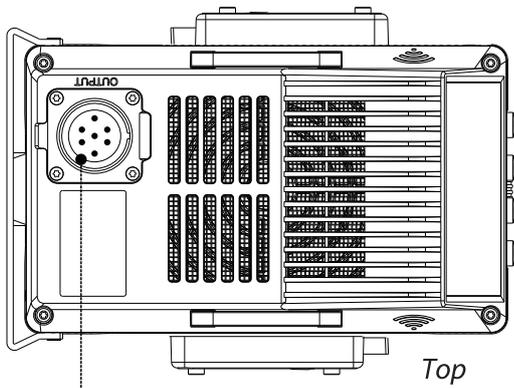
Product Overview

1. Lamp Head

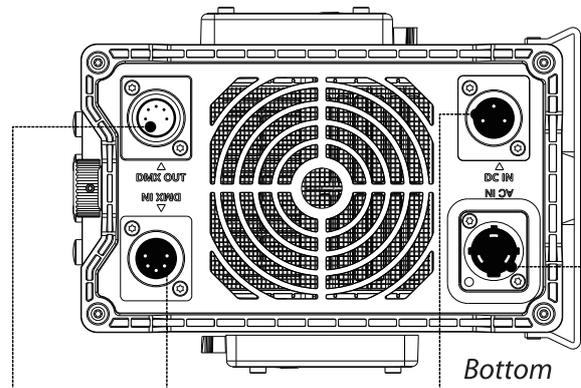


2. Control Box





7-Pin Female Head Cable Connector



DMX OUT Port

DMX IN Port

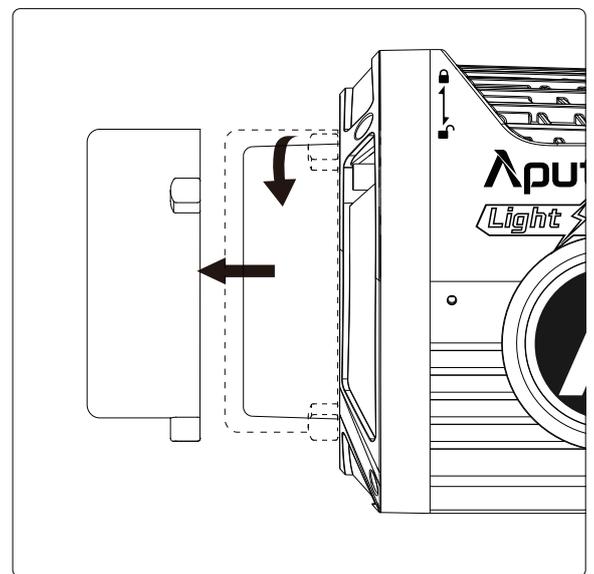
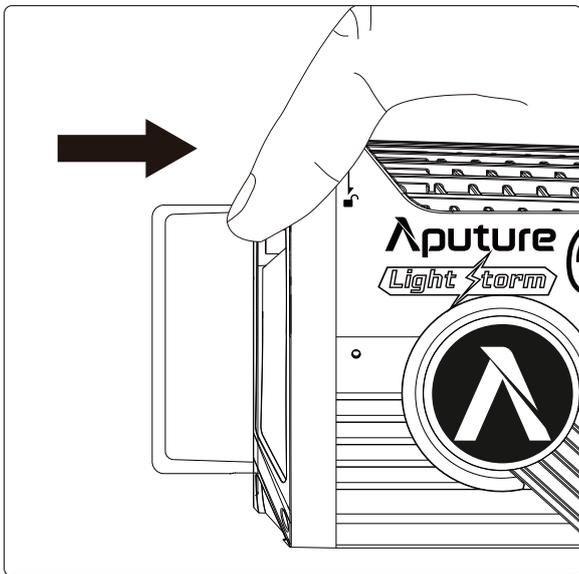
48V DC Input (3-Pin XLR)

Neutrik® powerCON AC Input

Setup

1. Attaching/Detaching the Protection Cover

"To detach the cover, press the release button and rotate the protection cover clockwise. To reattach the cover, insert it into the Bowens Mount, and rotate in the reverse direction.

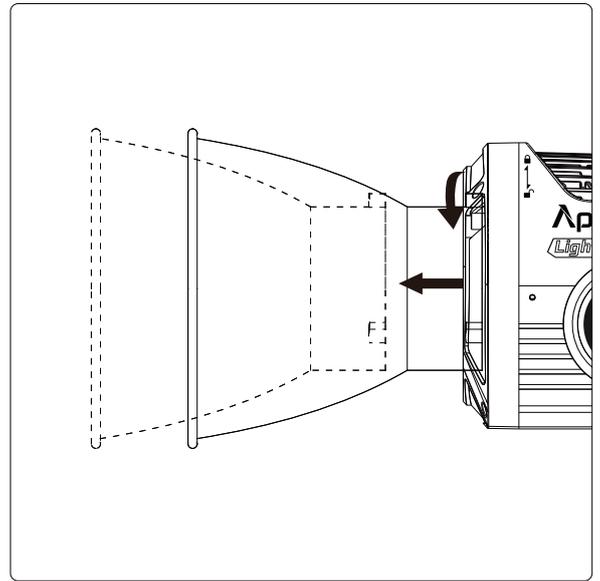
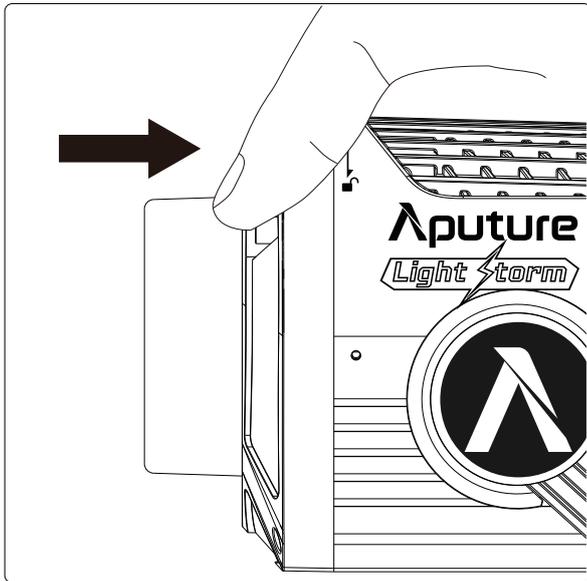


WARNING

Always remove the protection cover prior to turning on the light. Always re-install the cover when transporting the light.

2. Attaching/Detaching the Bowens Mount Hyper Reflector (LS 600 Series)

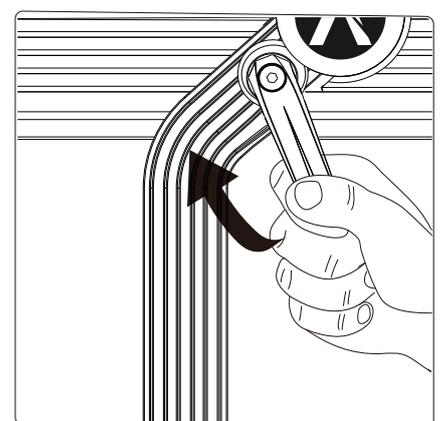
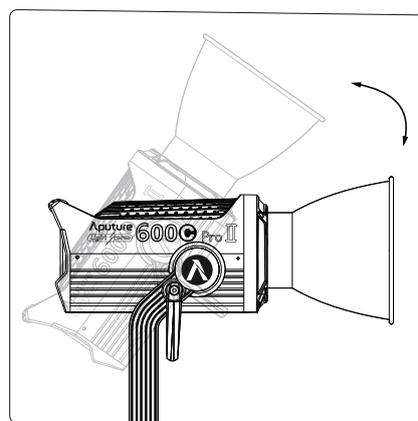
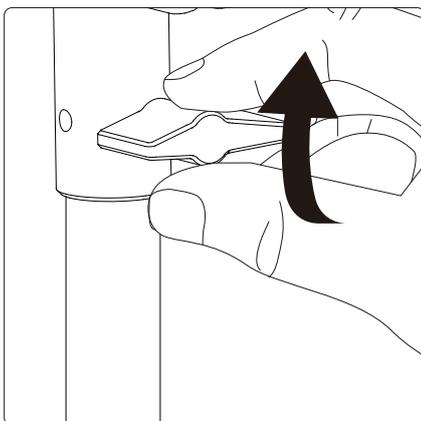
To install a reflector, press the release button and insert the reflector. Rotate the reflector counter clockwise and release the button. To detach the reflector, press the release button and turn the reflector clockwise.



3. Setting Up the Lamp Head

When using a 5/8in/16mm (Baby Pin) stand, then mount the Lamp Head onto the stand, and tighten in place using the T-Handle/Mounting Screw on the Baby Pin Receiver.

When using a 1.125in/28mm (Junior Receiver) stand, remove the T-Handle from the yoke and then mount the Lamp Head into the Junior Receiver. Loosen or tighten the disc brake handle on the yoke to adjust the fixture's angle of tilt.



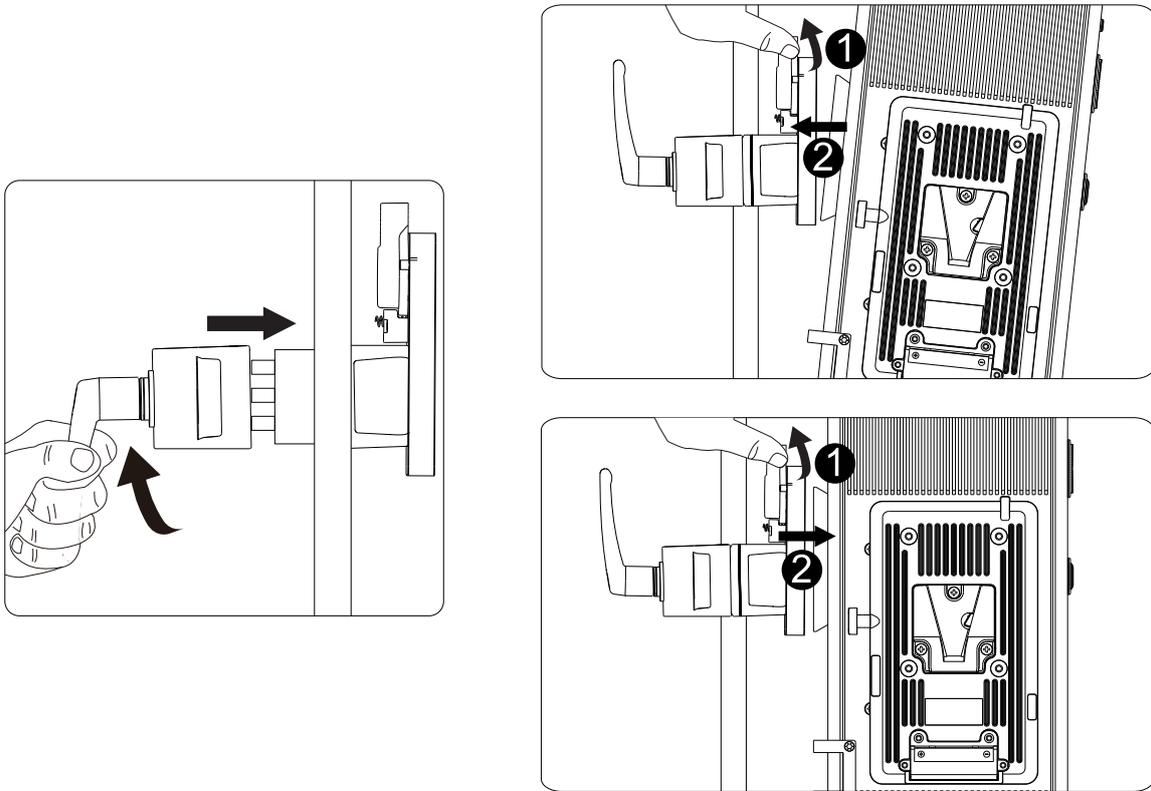
4. Using the Lightning Clamp

1) Attach the Lightning Clamp onto a light stand.

2) To attach the Control Box, rotate the release lever to unlock the quick-release plate.

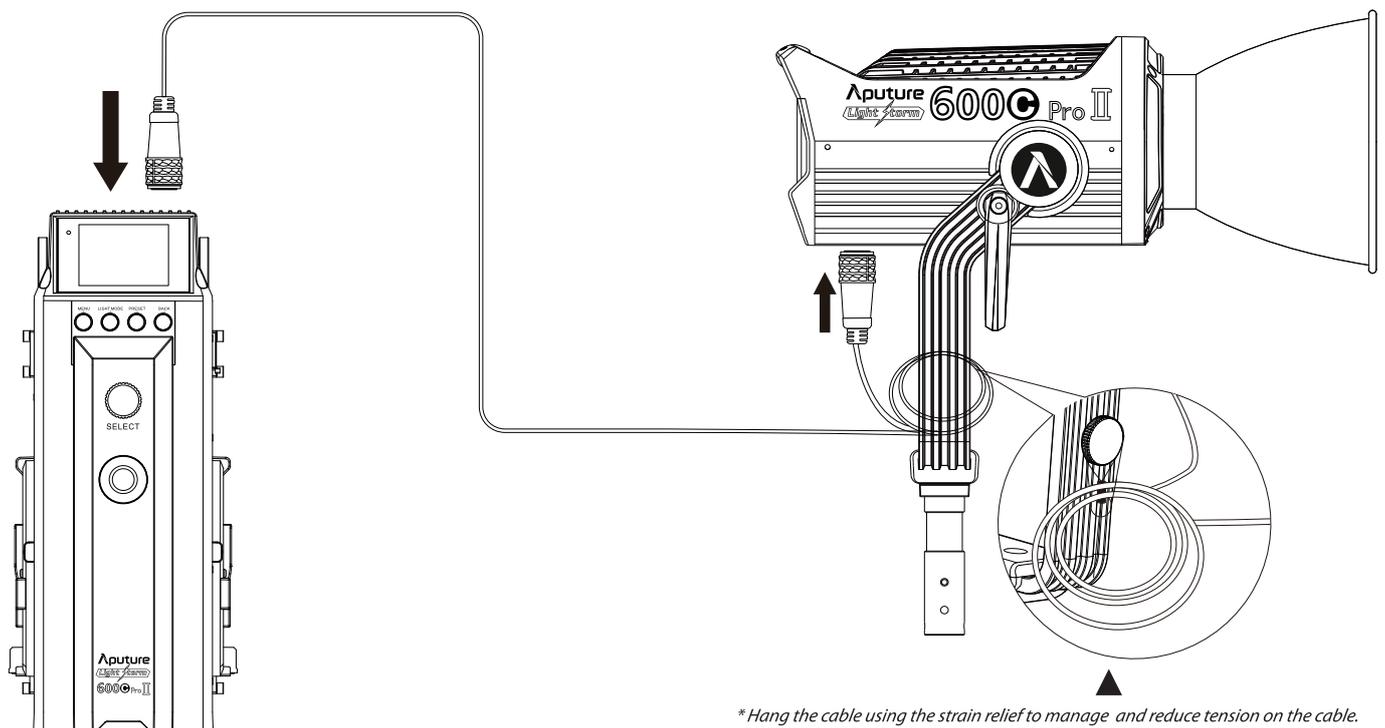
Then mount the Control Box onto the Lightning Clamp (the release lever will spring back) and check that it is secure.

3) To remove the Control Box, grasp it firmly, and unlock the quick-release plate by turning its lever.



5. Connecting the Lamp Head to the Control Box

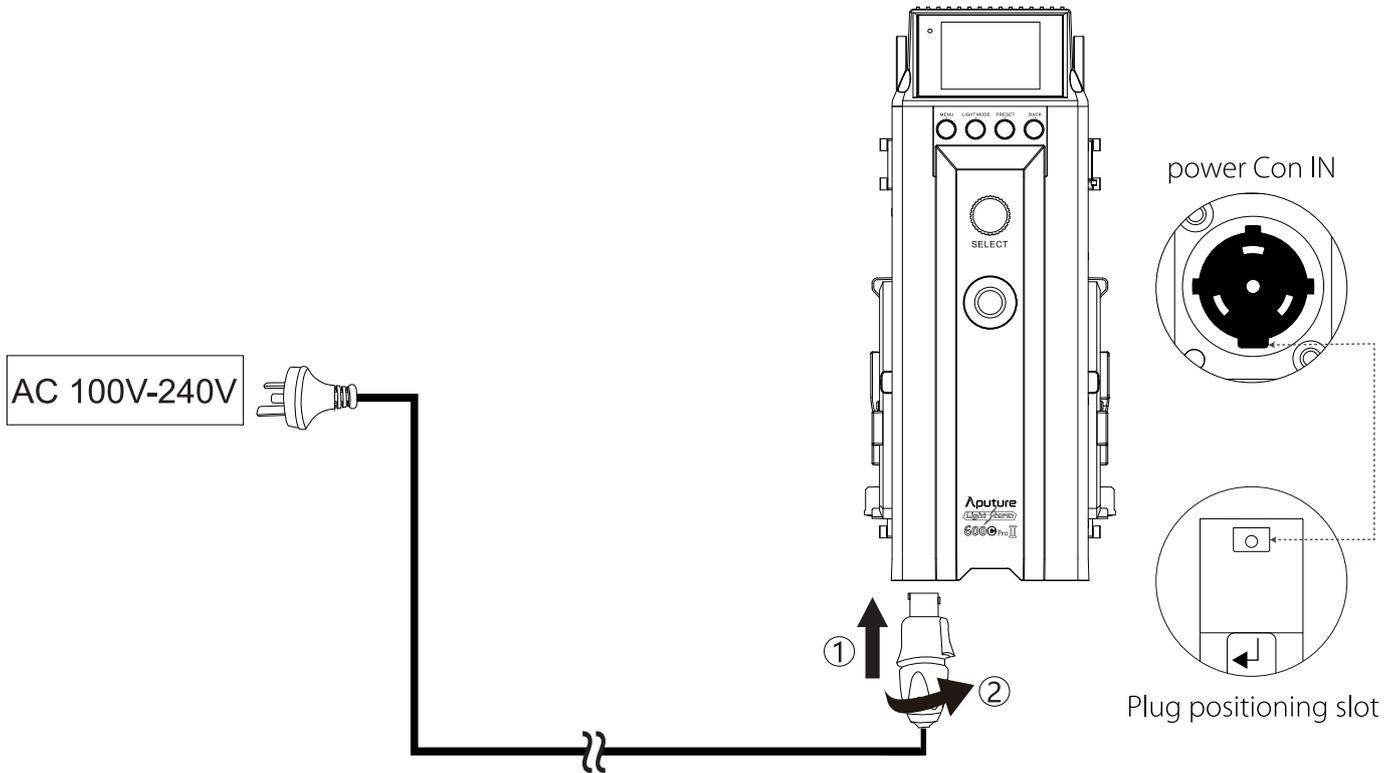
Connect the Lamp Head to the control box using the 7-pin Weatherproof Head Cable.



** Disconnect the Head Cable by pulling up on the connector's collar; this will disengage its locking mechanism. Do not pull directly on the cable.*

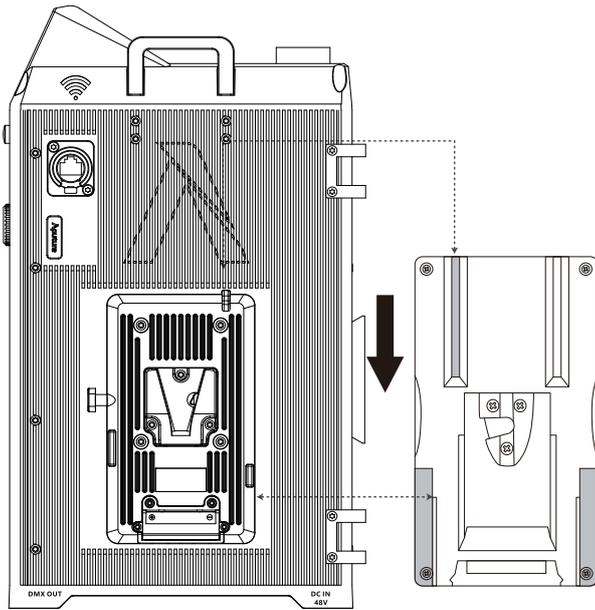
6. Powering Up the Control Box

1) Powering by AC

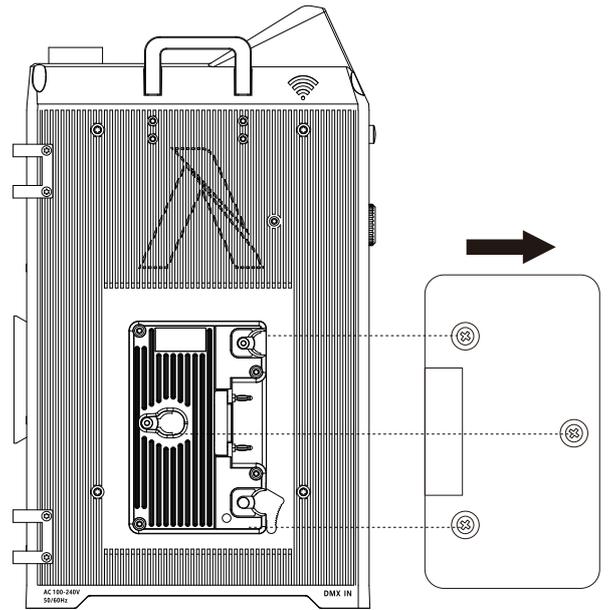


**To disconnect the Neutrik® powerCon cable, pull back on the silver release tab on the cable connector, and rotate the connector counter clockwise. Do not pull directly on the cable.*

2) Powering by DC



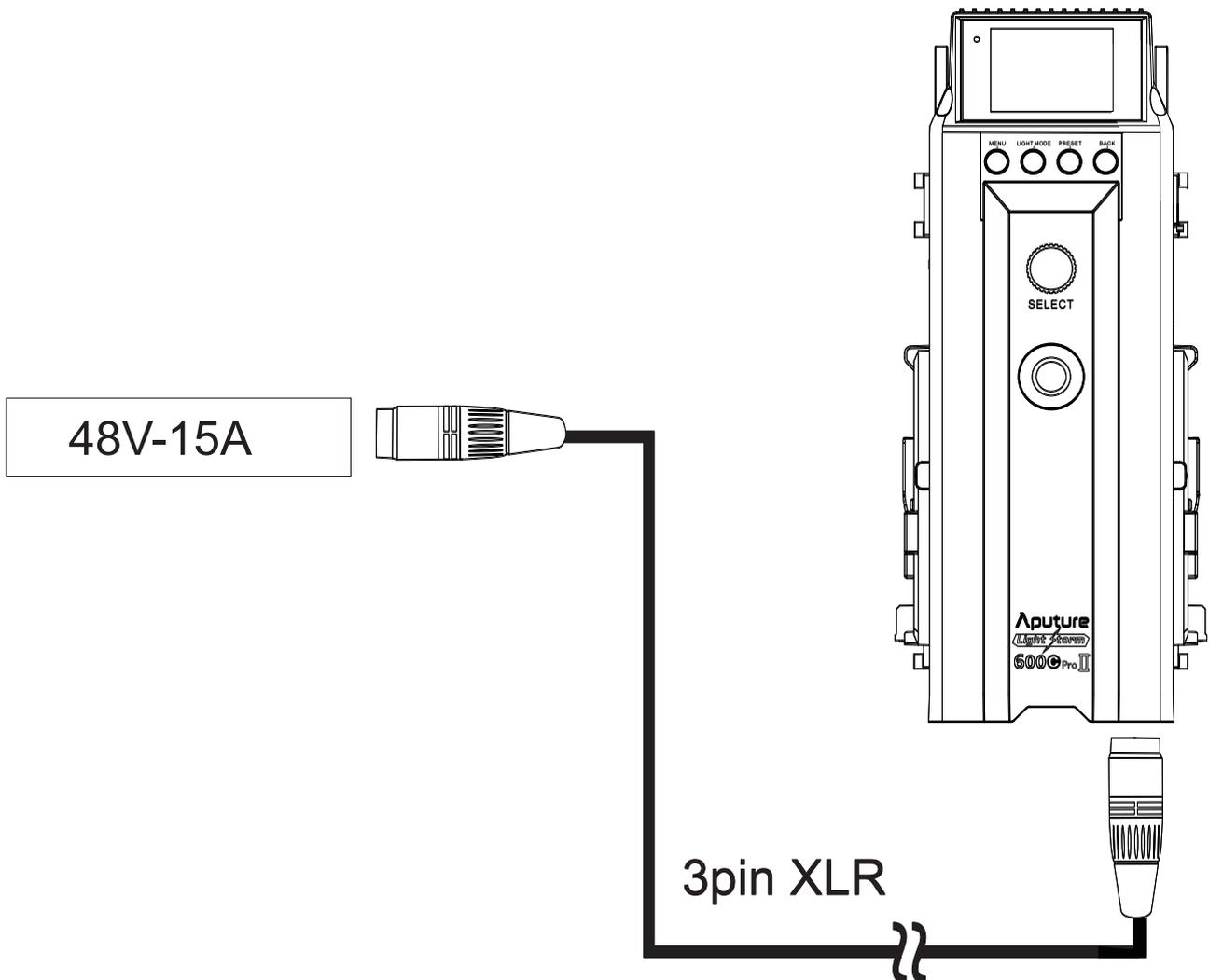
▲ V-Mount Battery



▲ Anton Bauer Battery

* You can choose V-Mount or Anton Bauer Battery as required.

3) Powering by DC Supply



7. Charging Batteries Using the Control Box

The Control Box can charge batteries via the built-in Battery Plates; however, charging batteries while also using the Lamp Head automatically reduces lamp output as follows:

Exponential(Exp) or Linear: $\leq 70\%$

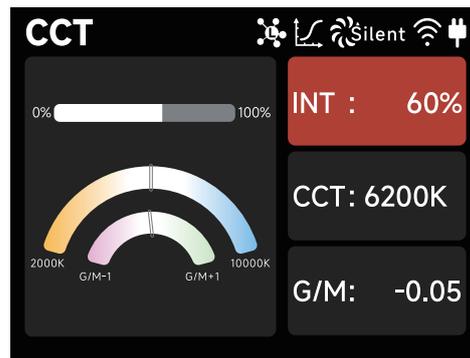
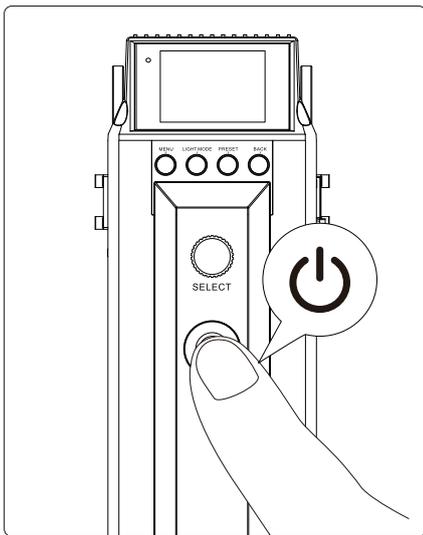
Logarithmic(Log): $\leq 30\%$

S-Curve: $\leq 55\%$

Operating Instructions

1. Powering On/Off

Connect the power supply and press the power button on the Control Box to turn on/off.



Default Light Mode Control Screen (CCT Mode)

Note: If your fixture has Studio Mode "ON", the Control Box will power on whenever power is supplied to it.

1.1 Status Indicator Icons

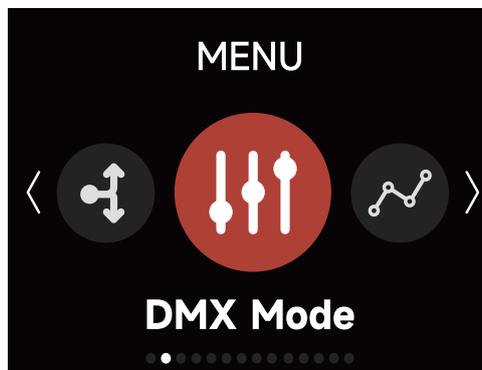
Fan Mode:	 Silent	Receiving CRMX Data	
	 High	NO CRMX/DMX Data	
	 Medium	CRMX Linked/NO Connection	
	 Smart	Network Control Protocol Present	
Dimming Curve: Linear		AC Power Detected	
Dimming Curve: S-Curve		DC Power Supply	
Dimming Curve: Exp		Lithium Battery Power Supply	
Dimming Curve: Log		Low Battery Power	
Sidus Bluetooth			

2. Manual Control of Control Box

Press the button on the Control Box to enter the corresponding modes: MENU, LIGHT MODE, and PRESET.

2.1 MENU

Press the MENU button to enter the System Menu interface. In the System Menu you'll find **Output Mode / DMX Mode / Custom FX / Dimming Curves / Fan Mode / Studio Mode / Control System / Language / Product Information / Update / Factory Reset / Battery Power Option**

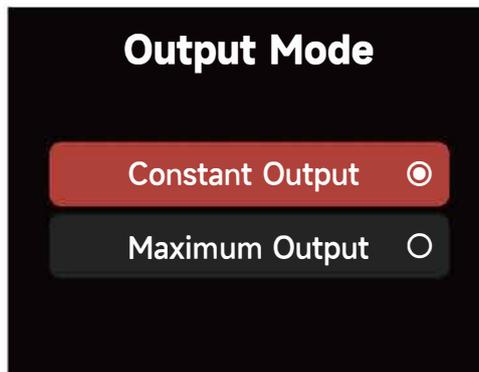


System Menu Control Screen

2.1.1) Output Mode

Constant Output: The lamp's brightness is consistent throughout the color temperature range.

Max Output: The lamp's brightness is prioritized throughout the color temperature range.



2.1.2) DMX Mode

DMX Address: Turn the Select Wheel to set the DMX address. Press and hold the MENU for 2 seconds to lock the DMX Address. In the locked state, the display stays on this screen and the DMX address cannot be changed. Press and hold SELECT again for 2 seconds to unlock.

DMX Loss Behavior: rotate the Select Wheel to choose between Hold Last Settings/Black Out/Fade to Black/Hold 2 min.&Fade Out.

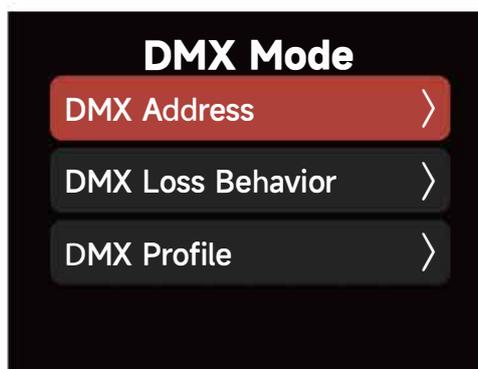
① Hold Last Settings: when DMX signal is lost, DMX values will be retained until signal is regained. ②

Black Out: when DMX signal is lost, the light will black out.

③ Fade to Black: when DMX signal is lost, the light will wait for 60 seconds before fading to black.

④ Hold 2 min.&Fade Out: when DMX signal is lost, the DMX values are retained for two minutes before fading out over a time of 60 seconds.

DMX Profile : "Select which DMX Profile you would like to use to control your light. Refer to the Aputure DMX Chart for details."

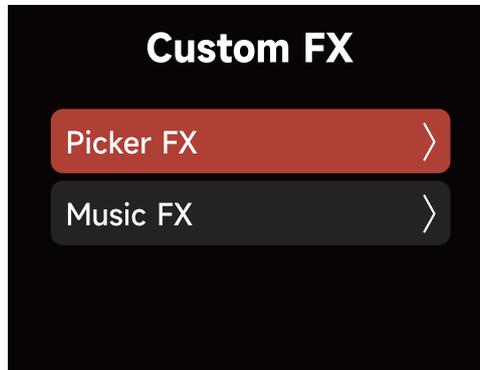


2.1.3) Custom FX

Press the **MENU** button , rotate and press the Select Wheel to enter the Custom FX interface.

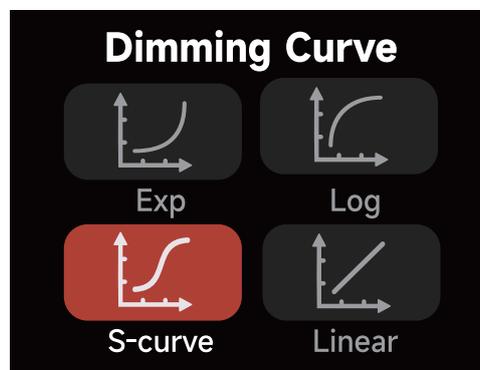
You can choose to enter **Picker FX** or **Music FX**.

Each type can save up to 10 custom FXs. "NO FX" refers to unsaved FX, and "Untitled" refers to saved FX.



2.1.4) Dimming Curves

Rotate the Select Wheel and press to select between Exponential (Exp), Logarithmic (Log), Linear and S-Curve.



2.1.5) Fan Mode

Rotate the Select Wheel and press to choose between **Smart**, **High**, **Medium** and **Silent** fan mode.

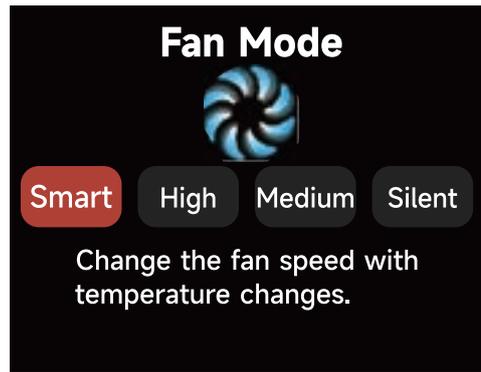
Smart: able to work in -20°C through 45°C environment, the lamp will automatically adjust the fan speed according to different ambient temperatures.

High : able to work in -20°C through 45°C environment, fan will maintain its highest speed. In High-Speed Mode, the fan uses the High Fan setting.

Medium: Capable of working in -20°C through 35° environments, the fan uses a medium speed.

Silent: able to work in -20°C through 45°C environment, the maximum output power of the fixture will

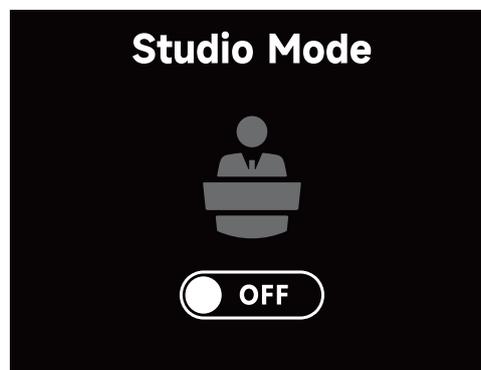
be limited to 60w. In this mode, the fan produces the least amount of noise.



** When the overheat symbol appears on the display, please follow the prompt to adjust the Fan Mode to Smart or High. If the internal temperature of the lamp reaches its threshold, the lamp will automatically shut off to protect the internal electronics.*

2.1.6) Studio Mode

When the Studio Mode is enabled (ON), the fixture will power on when connected to live power. When Studio Mode is disabled (OFF), press the power button to power on or power off the fixture.

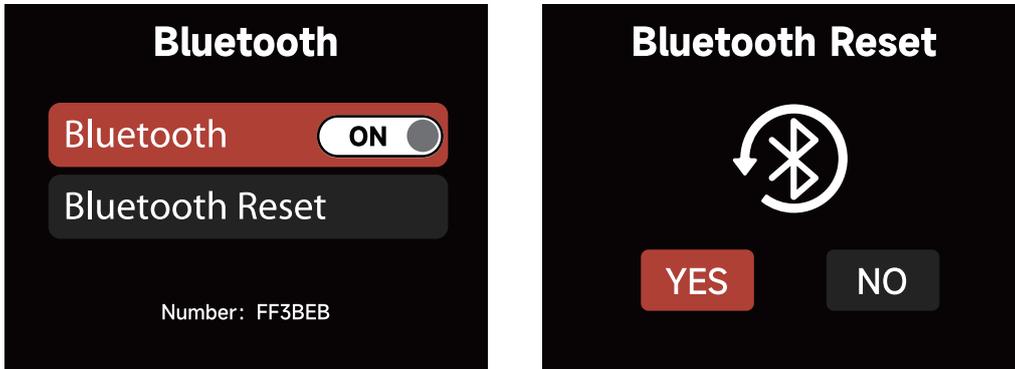


2.1.7) Control System

The LS 600c Pro II is equipped with four remote control options: DMX, Sidus BT, CRMX and Ethernet (Art-Net/sACN). In the Control System menu is where settings for Sidus BT, CRMX, and Ethernet control protocols can be found. Only one control option can be used at a time.

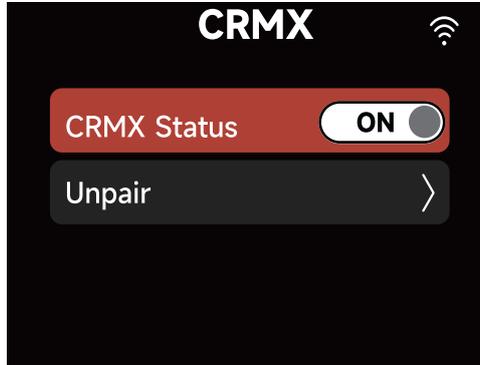
2.1.7.1) Sidus Bluetooth

When Bluetooth is "ON", the serial number is displayed here to facilitate connecting with the Sidus Link Pro and Sidus Link Apps.



2.1.7.2) CRMX

When CRMX is ON/Enabled, the fixture will listen for it's previously linked Transmitter. If the fixture is currently unlinked, it will listen for a Transmitter link signal and link to any new CRMX link signal. Users can Unlink from previously linked Transmitters by selecting Unlink

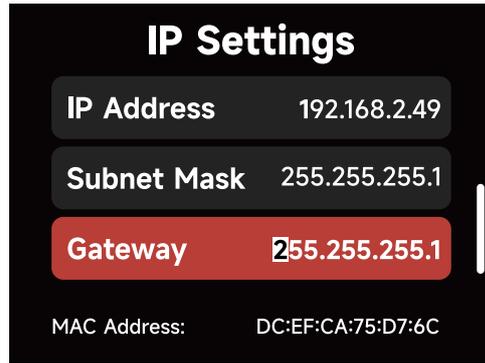
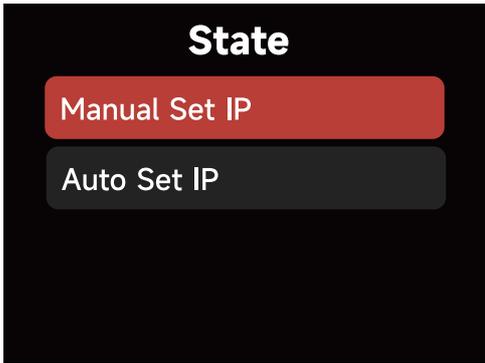
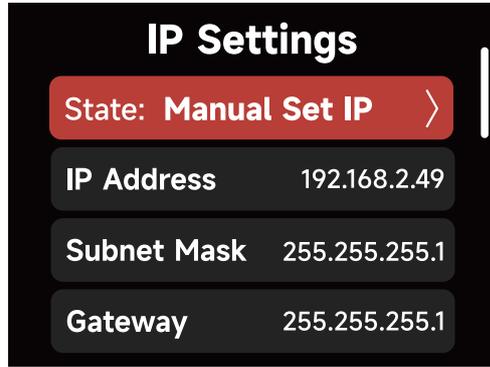
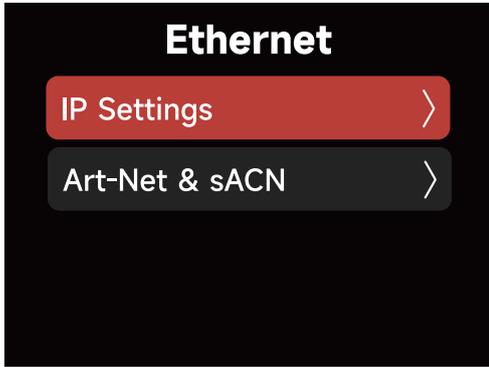


2.1.7.3) Ethernet

In the Control System Menu, under Ethernet, are options for setting the device's IP and control protocol settings.

There are two ways to set IP: manually set IP and automatically obtain IP. If you select manual setting, you can edit configuration items such as IP address, subnet mask, universe address, etc.; if you select automatic IP setting, the console will automatically assign an IP address.

You can choose Art-Net or sACN protocol or automatic.



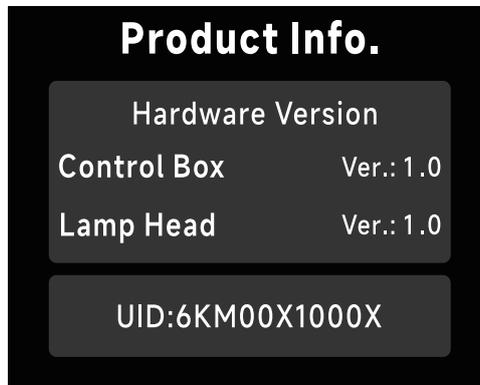
2.1.8) Language

Select English or Chinese and press Select for confirmation.



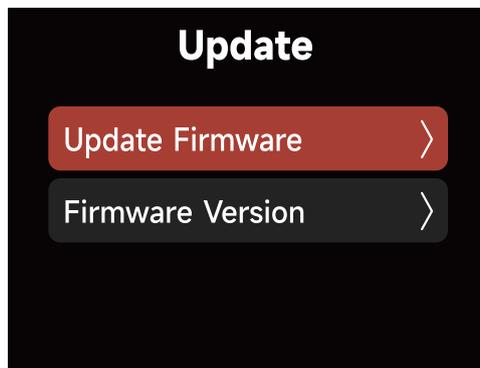
2.1.9) Product Information

By selecting "Product Information", you can view the Hardware Version of the Control box and the Lamp Head and UID of the product.



2.1.10) Update

In the "Update" interface, you can upgrade the firmware by inserting a USB flash drive with the latest firmware into the USB port of the control box and confirming that you want to update . The current firmware version is also listed in this interface. NOTE: The Control Box and Lamp Head can also be updated via Sidus Link or Sidus Link Pro with Sidus BT turned ON and a Wi-Fi internet connection on your Sidus Link device.



2.1.11) Factory Reset

Select "YES" if you wish to Factory Reset the fixture. Select "NO" to cancel.

Factory Settings: Light Mode: CCT	Intensity: 50%	CCT: 5600K	Language: English
Dimming Curve: Linear	DMX Termination: Off	CRMX: OFF	Fan Mode: Smart
Control System: Bluetooth enabled, CRMX disabled		DMX Loss Behavior: Hold Last Settings	
Studio Mode: OFF	CRMX: Unlinked	DMX: Channel 001	Sidus BT: ON



2.1.12) Battery Power Option

When using external batteries to power the LS 600c Pro II, actions for the batteries can be found in the Battery Power Option interface.

- **Wake up Batteries:** When you need to activate the lithium battery from overdischarge protection . Select the lithium battery specification 14.4V/26V and enter the Wake Up Batteries interface, confirm Activate to output 3A current in order to activate the lithium battery; After activation, check whether the lithium battery has a voltage output. If so, the activation is successful, otherwise the activation fails.
- **Full Battery Power:** a single lithium battery can meet the input power requirement of 360W continuous output (14.4V lithium battery maximum output current 30A, 26V lithium battery maximum output current 15A). Two lithium batteries can meet the input power requirement of 720W, and the lamp can achieve 100% illumination Output.

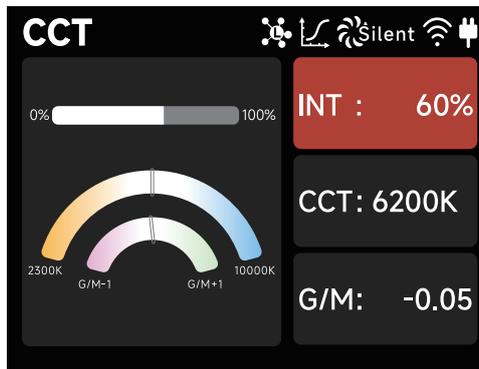


2.2 Accessing Lighting Modes

Press the LIGHT MODE button on the control box to enter the different modes: **CCT, Adv. HSI, FX, RGB, x y, Source, and GEL.**

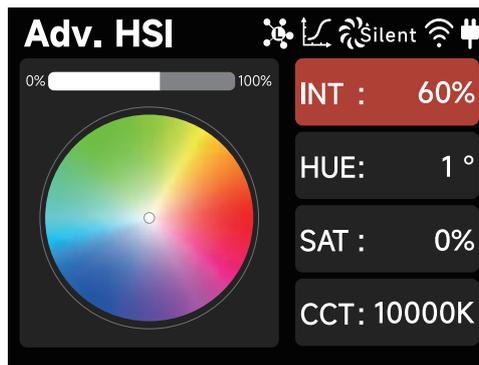
2.2.1 CCT

Adjust the Color Temperature (2300K-10000K) and the Green/Magenta level (-1.00 thru +1.00).



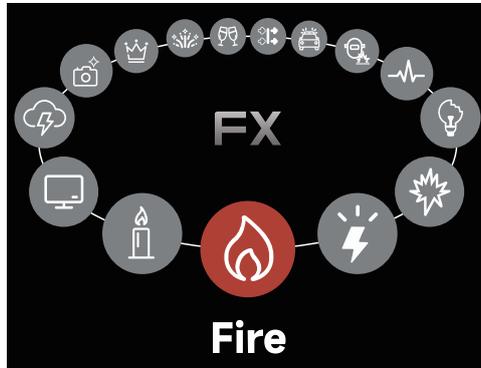
2.2.2 Advanced HSI

Select the Hue (0°-360°), Saturation (0-100%) and Color Temperature (2300K–10000K).



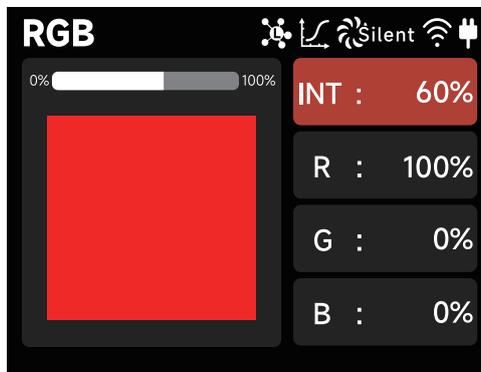
2.2.3 FX

Select between FX modes: Fireworks / Explosions / Flames / Paparazzi / Defective Bulb / TV / Pulse / Party Lights / Club / Color Chase / Candle / Welding / Police Car / Flash / Lightning



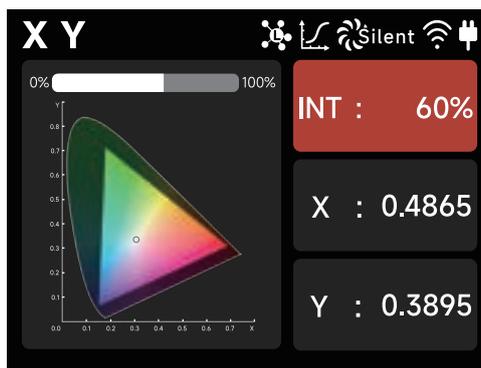
2.2.4 RGB

Set the values of Red, Green and Blue (0-100%) to achieve the desired color; then use the Master Intensity to raise and lower the overall brightness of the fixture without changing the colors individually.



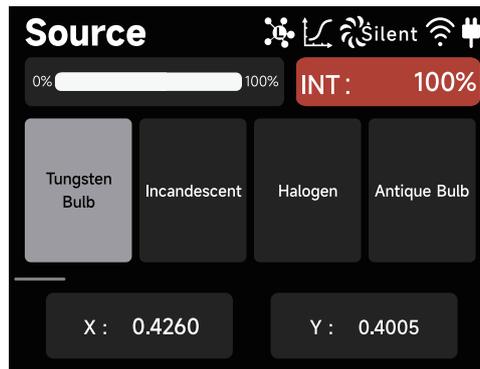
2.2.5 XY

Set the x or y coordinate value (0.0000-0.8000) and Intensity.



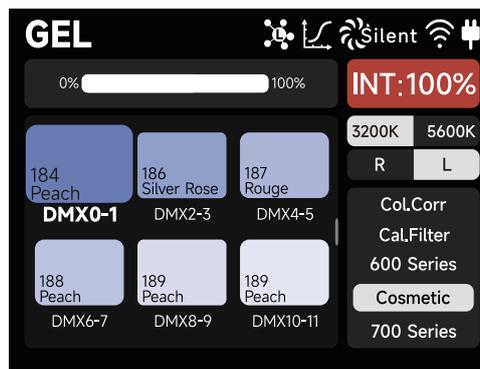
2.2.6 Source

Select the light source to mimic and fine tune the xy coordinates.



2.2.7 GEL

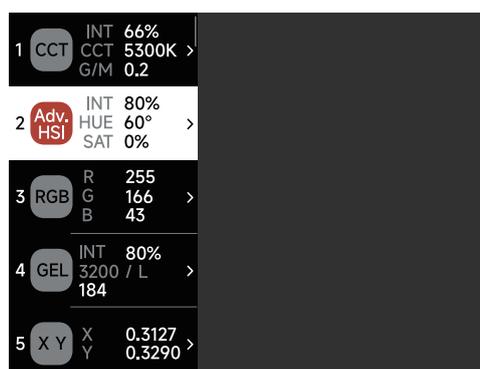
Select the Intensity, base Color Temperature, Gel Series and desired Gel.



2.3 Presets

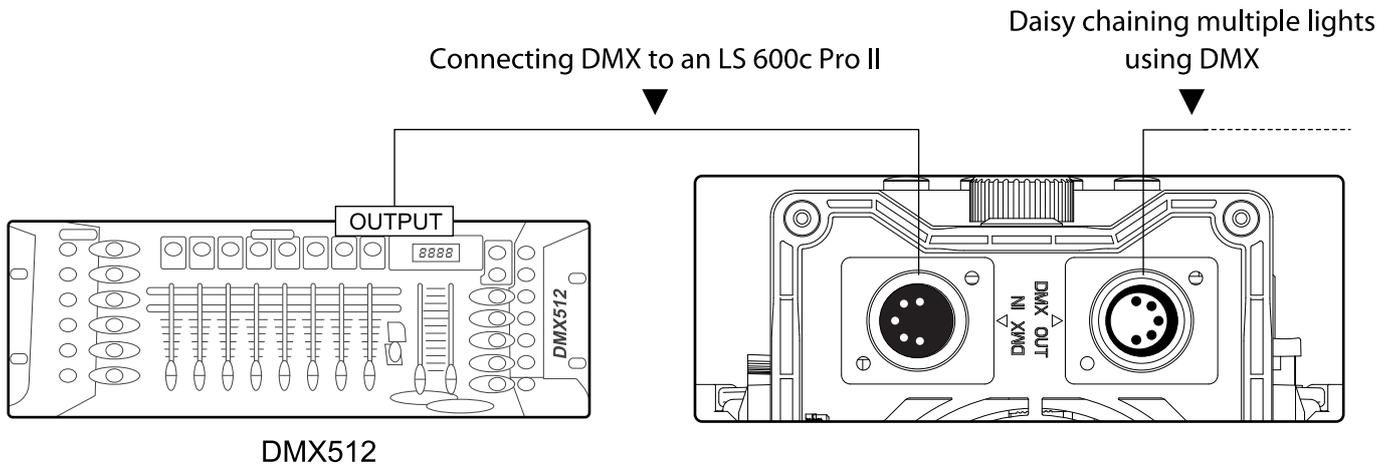
10 Light Mode Presets can be saved.

Choose your settings within the CCT, Adv. HSI, RGB, XY, Source or Gel light modes. Then press the PRESET button to open the Preset interface. Select the Preset number to open, replace or delete the Preset.

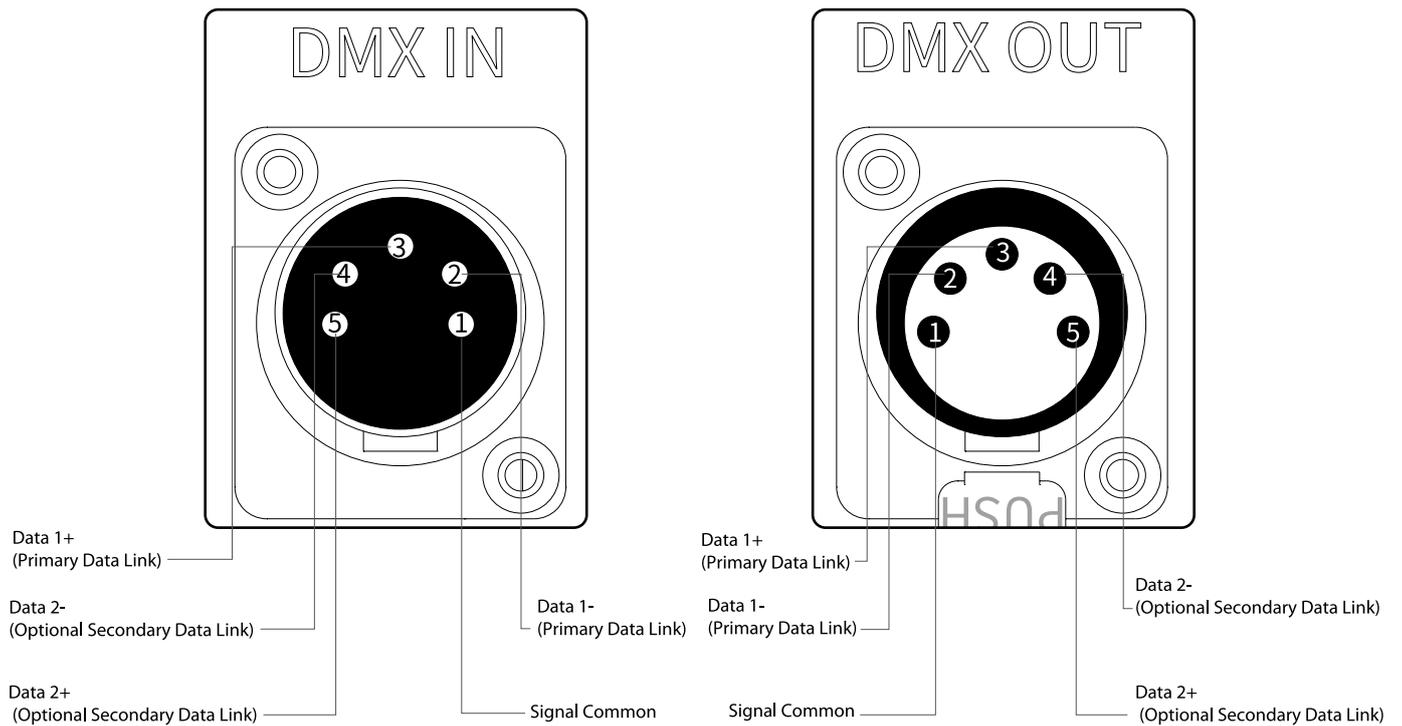


3. Connecting to DMX

3.1 Connecting a standard DMX controller



*The DMX interface schematic is shown in the pictures below:



4. Controlling Device Via DMX

The LS 600c Pro II offers a variety of DMX profiles. Please find a detailed overview of all DMX profiles in the LS 600c Pro II DMX Chart which is available for download on the Aputure official website: <https://www.aputure.com>.

5. Sidus Link Pro and Sidus Link

Download Sidus Link and Sidus Link Pro from the iOS App Store or the Google Play Store. Visit [Aputure.com](https://www.aputure.com) for more details on enhancing your Aputure experience with these Apps.



Sidus Link
& Sidus Link Pro



<https://help.sidus.link/>

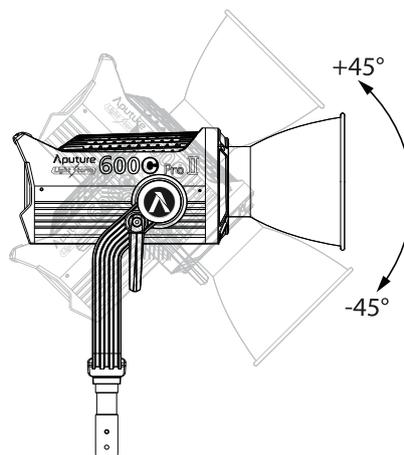
Product Specifications

Power Consumption	≤720W	Output Power	≤600W
Voltage Input Range	100V~240V	Operating Current	8A
CRI	≥95	TLCI	≥98
SSI(D56)	74	SSI(D32)	85
CCT	2300 K - 10000 K	Ambient Temperature Operation	-20°C - 45°C
Operating Voltage (Battery)	14.4 V - 15A 26 V - 8 A 28.8 V - 7.5 A	DC Voltage Range (3-Pin XLR)	48 V - 15 A
Wireless Operating Range (Bluetooth)	≤ 80 m	Wireless Operating Range (CMRX)	≤ 100 m
Dimensions	Lamp Head w/o Yoke	30.2x22.2x15.0 cm / 11.9x8.74x5.90 in	
	Lamp Head w/ Yoke	45.3x26.7x15.0 cm / 17.8x10.5x5.9 in	
	Control Box	36.6x19.7x15.6 cm / 14.4x7.7x6.1 in	
Weight	Lamp Head w/ Yoke	5.86 kg / 12.92 lbs	
	Control Box	5.21 kg / 11.48 lbs	

** Damage to the Lamp Head or Control Box from moisture is not covered under the warranty.*

Missing period.

** If the LS 600c Pro II is used in a heavy rain, it is recommended to use the tilt angle range of the lamp head as shown below:*



Photometrics

CCT	Distance	No Attachments	Standard Hyper Reflector	F10 Fresnel (45°)	F10 Fresnel (15°)
2300 K	1 m	17130 lux 1586 fc	70900 lux 6565 fc	35100 lux 3250 fc	73300 lux 6787 fc
	3 m	1903 lux 176 fc	7878 lux 729 fc	3900 lux 361 fc	8144 lux 754 fc
	5 m	685 lux 63 fc	2836 lux 263 fc	1404 lux 130 fc	2932 lux 271 fc
3200 K	1 m	18950 lux 1755 fc	78700 lux 7287 fc	40000 lux 3704 fc	82800 lux 7667 fc
	3 m	2106 lux 195 fc	8744 lux 810 fc	4444 lux 412 fc	9200 lux 852 fc
	5 m	758 lux 70 fc	3148 lux 291 fc	1600 lux 148 fc	3312 lux 307 fc
4300 K	1 m	20190 lux 1869 fc	84600 lux 7833 fc	44000 lux 4074 fc	89900 lux 8324 fc
	3 m	2243 lux 208 fc	9400 lux 870 fc	4889 lux 453 fc	9989 lux 925 fc
	5 m	808 lux 75 fc	3384 lux 313 fc	1760 lux 163 fc	3596 lux 333 fc
5600 K	1 m	21610 lux 2001 fc	91500 lux 8472 fc	48400 lux 4481 fc	97600 lux 9037 fc
	3 m	2401 lux 222 fc	10167 lux 941 fc	5378 lux 498 fc	10844 lux 1004 fc
	5 m	864 lux 80 fc	3660 lux 339 fc	1936 lux 179 fc	3904 lux 361 fc
6500 K	1 m	21600 lux 2000 fc	91100 lux 8435 fc	48100 lux 4454 fc	97100 lux 8991 fc
	3 m	2400 lux 222 fc	10122 lux 937 fc	5344 lux 495 fc	10789 lux 999 fc
	5 m	864 lux 80 fc	3644 lux 337 fc	1924 lux 178 fc	3884 lux 360 fc
7500 K	1 m	21680 lux 2007 fc	91800 lux 8500 fc	47800 lux 4426 fc	97500 lux 9028 fc
	3 m	2409 lux 223 fc	10200 lux 944 fc	5311 lux 492 fc	10833 lux 1003 fc
	5 m	867 lux 80 fc	3672 lux 340 fc	1912 lux 177 fc	3900 lux 361 fc

9000 K	1 m	20720 lux 1919 fc	88100 lux 8157 fc	47600 lux 4407 fc	95100 lux 8806 fc
	3 m	2302 lux 213 fc	9789 lux 906 fc	5289 lux 490 fc	10567 lux 978 fc
	5 m	829 lux 77 fc	3524 lux 326 fc	1904 lux 176 fc	3804 lux 352 fc
10000 K	1 m	19930 lux 1845 fc	84800 lux 7852 fc	46000 lux 4259 fc	41700 lux 3861 fc
	3 m	2214 lux 205 fc	9422 lux 872 fc	5111 lux 473 fc	4633 lux 429 fc
	5 m	797 lux 74 fc	3392 lux 314 fc	1840 lux 170 fc	1668 lux 154 fc

** This is an averaged result. The luminance of your individual unit may vary slightly from this data.*

Trademarks

Bowens is a trademark registered by Bowens in China and other countries.

Anton Bauer is a trademark registered by Anton Bauer in the US and other countries.

Neutrik® is a trademark registered by Neutrik® in the US and other countries.

Safety Instructions

When using this unit, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions before using.
2. Close supervision is necessary when any fixture is used by or near children. Do not leave the fixture unattended while in use.
3. Care must be taken as burns can occur from touching hot surfaces.
4. Do not operate the fixture if a cord is damaged, or if the fixture has been dropped or damaged, until it has been examined by qualified service personnel.
5. Position any power cables such that they will not be tripped over, pulled, or put into contact with hot surfaces.
6. If an extension cord is necessary, a cord with an amperage rating at least equal to that of the fixture should be used. Cords rated for less amperage than the fixture may overheat.
7. Always unplug the lighting fixture from the electrical outlet before cleaning and servicing, or when not in use. Never yank the cord to remove the plug from the outlet.
8. Let the lighting fixture cool completely before storing. Unplug the power cable from lighting fixture before storing and store the cable at assigned space of the carrying case.
9. To reduce the risk of electric shock, do not immerse this fixture in water or any other liquids.
10. To reduce the risk of fire or electric shock, do not disassemble this fixture. Contact cs@aputure.com or take the lighting fixture to qualified service personnel when service or repair is required. Incorrect reassembly may cause electric shock when the lighting fixture is in use.
11. The use of any accessory attachment not recommended by the manufacturer may increase the risk of fire, electric shock, or injury to any persons operating the fixture.

12. Please power this fixture by connecting it to a grounded outlet.
13. Please remove the protective cover before use.
14. Please remove the protection cover before using the reflector.
15. Please do not block the ventilation or do not look at the LED light source directly when it is powered on. Please do not touch the LED light source in any condition.
16. Please do not place the LED lighting fixture near any flammable object.
17. Only use a dry microfiber cloth to clean the product.
18. Please do not use the light fixture in wet condition on account of electric shock may be caused.
19. Please have the product checked by an authorized service personnel agent if the product has a problem.
Any malfunctions caused by unauthorized disassembly are not covered by the warranty. The user may pay for maintenance.
20. We recommend only using the original Aputure cable accessories. Please note that any malfunctions caused by using unauthorized accessories are not covered by the warranty. The user may pay for maintenance.
21. When hanging the product overhead, always ensure an extra safety measure has been attached - such as a safety chain- that is certified for the weight of the product.
22. This product is certified by RoHS, CE, KC, PSE, and FCC. Please operate the product in full compliance with relevant country's standards. Any malfunctions caused by incorrect use are not covered by warranty. The user may pay for maintenance.
23. The instructions and information in this manual are based on thorough, controlled company testing procedures. Further notice will not be given if the design or specifications change.



FCC Declaration of Conformity

WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICE

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 reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a different circuit than the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

RF Statement:

This device has been evaluated to meet general RF exposure requirements.

Disclaimer

Before using this product, please read the product manual to ensure correct use under the complete understanding. After reading, please keep the product manual properly for future reference. In case of not operating this product correctly, it may seriously harm yourself or others, or result in product damage and property loss. When using this product, it shall be deemed that you have understood, recognized and accepted all clauses and contents of this document. The user commits to be responsible for their own behaviors and all consequences thereof. Aputure shall not be liable for any loss due to the user who does not use this product in accordance with the product manual.

Under the laws and regulations, our company holds the final explanation right of this document and all related documents of this product. No prior notice will be given for any update, revision or termination. Please visit the official Aputure website for the latest product information.