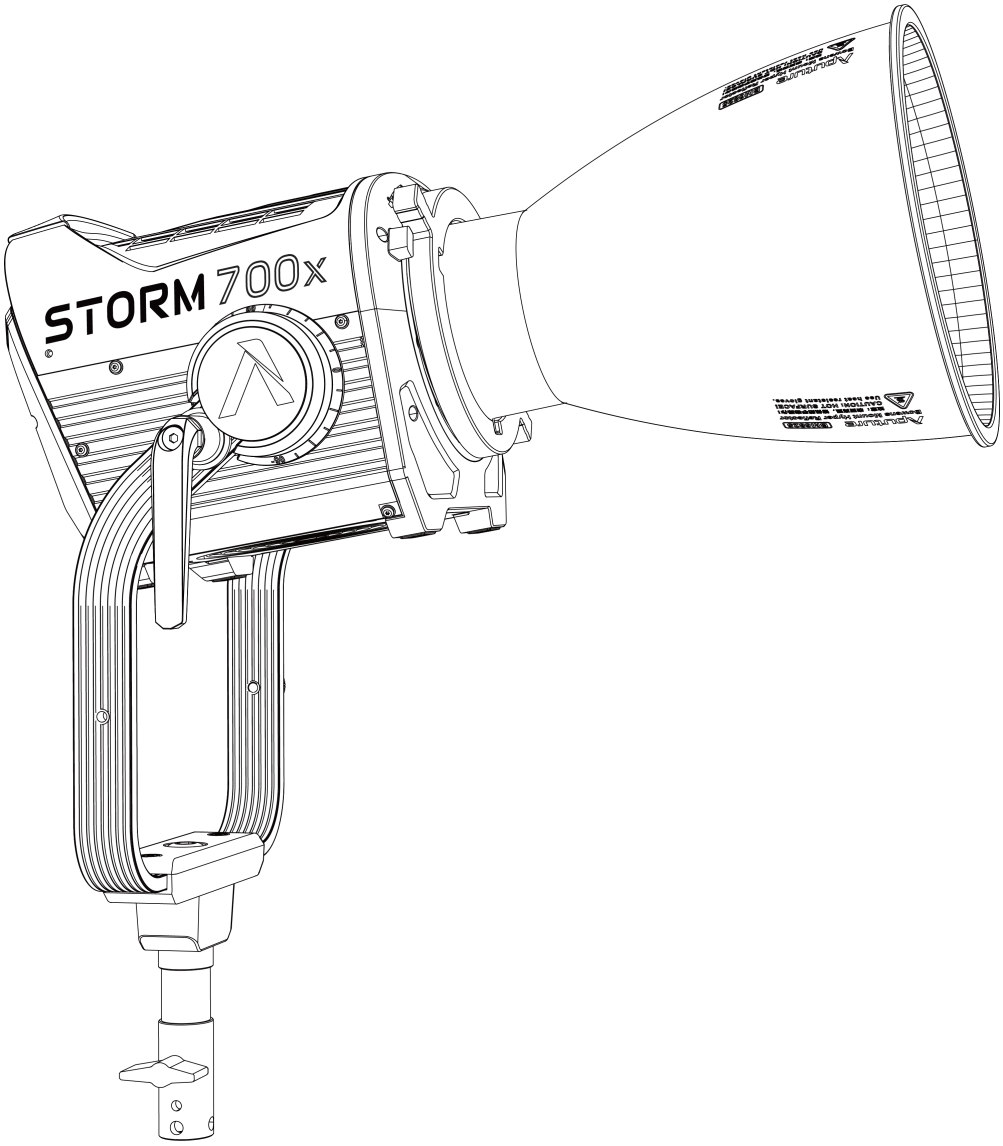
Aputure®



STORM 700x

User Manual

English

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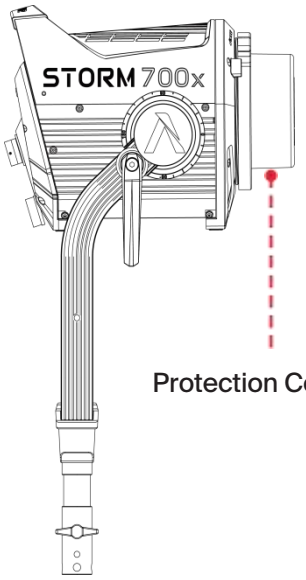
Introduction

Thank you for purchasing the Aputure STORM 700x. Like the rest of the STORM series, the 700x features a BLAIR light engine with an adjustable color temperature range of 2500–10000 K. It offers CCT (with ±G adjustment), x y, and HSIC+ control. The STORM 700x also supports professional lighting protocols such as DMX, LumenRadio CRMX, and Aputure's Sidus Link via Bluetooth. With an IP65 weather resistance rating and a ProLock Bowens mount compatible with the CF10 Fresnel and other Bowens-mount softboxes, the 700x is a powerful yet lightweight professional lighting solution.

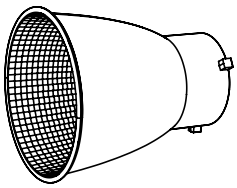
Components List

Please make sure all accessories listed below are completed before using. If not, please contact with your sellers immediately.

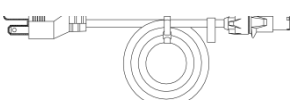


Protection Cover×1

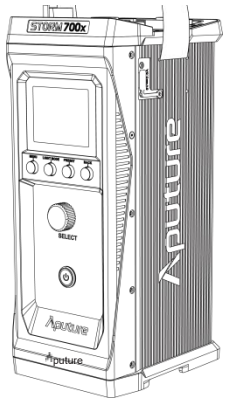
STORM 700x Lamp Head × 1



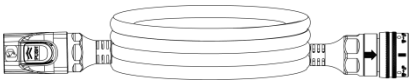
35° Reflector × 1



AC Cable 6m × 1

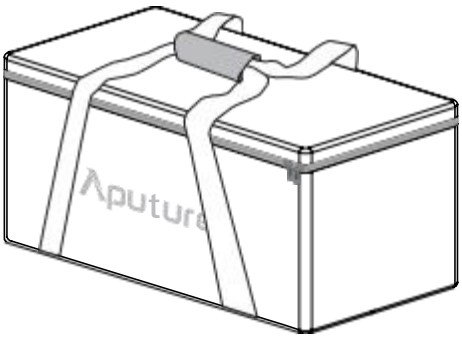


STORM 700x Control Box × 1



5m 8-pin Head Cable × 1

Lightning Clamp × 1

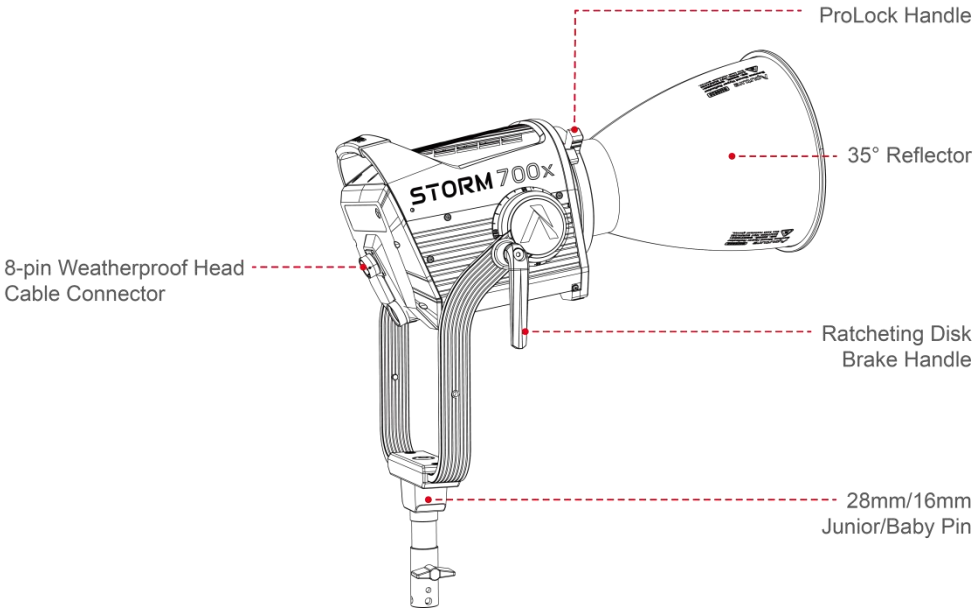


Carrying bag × 1

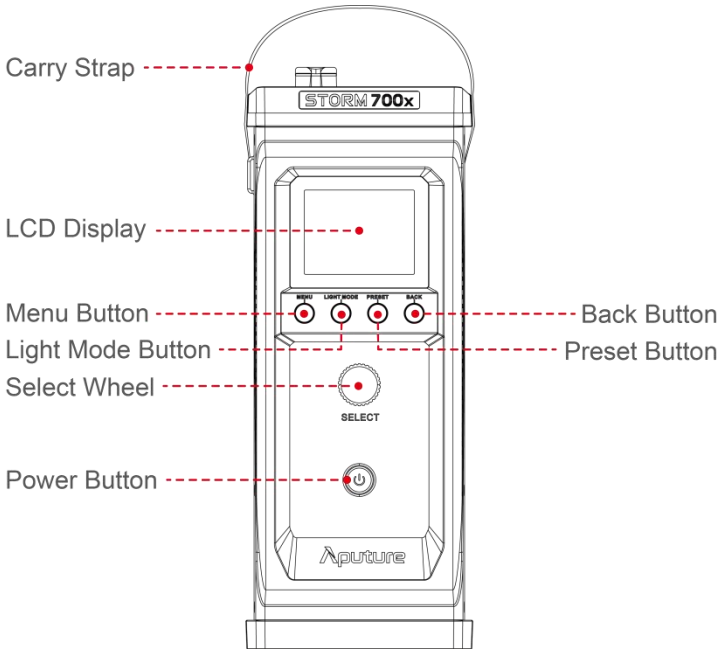
**** Tips: The illustrations in the manual are only diagrams for reference. Due to the continuous development of new versions of the product, if there are any differences between the product and the user manual diagrams, please refer to the product itself.***

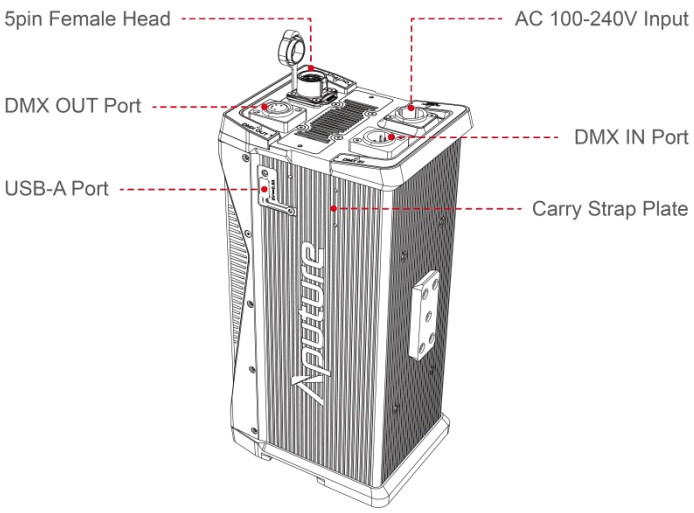
Product Review

1. Lamp Head



2. Control Box

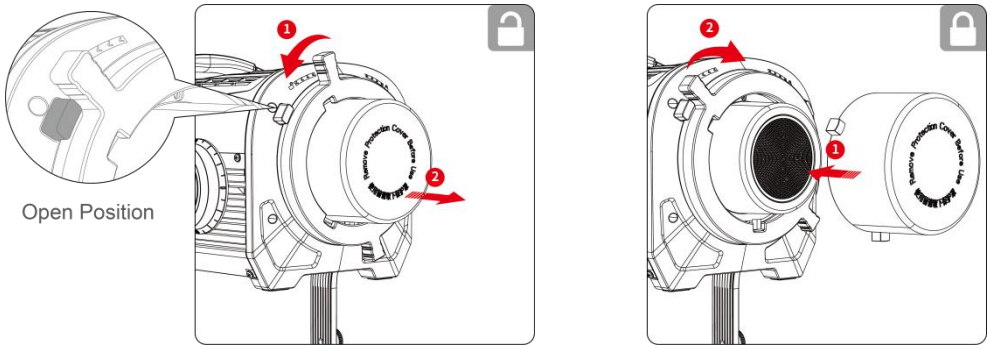




Setup

1. Attaching/Detaching the Protection Cover

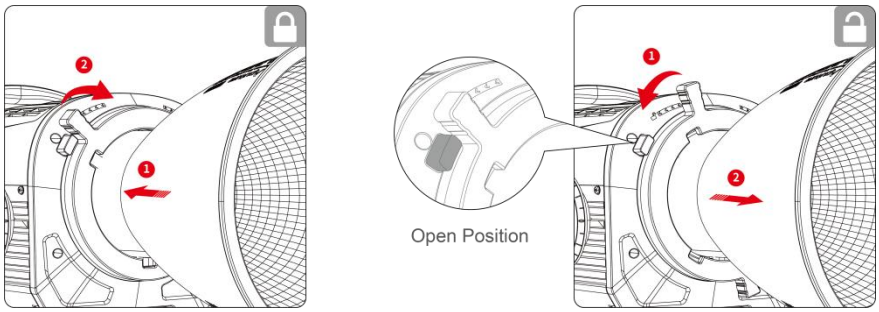
To detach the cover, rotate the ProLock Handle to the open position and remove it. To reattach the cover, insert it into place and rotate the ProLock Handle clockwise until locked.



* Before use, please make sure to remove the protective cover. During transportation and storage, please attach the protective cover.

2. Attaching/Detaching the Reflector

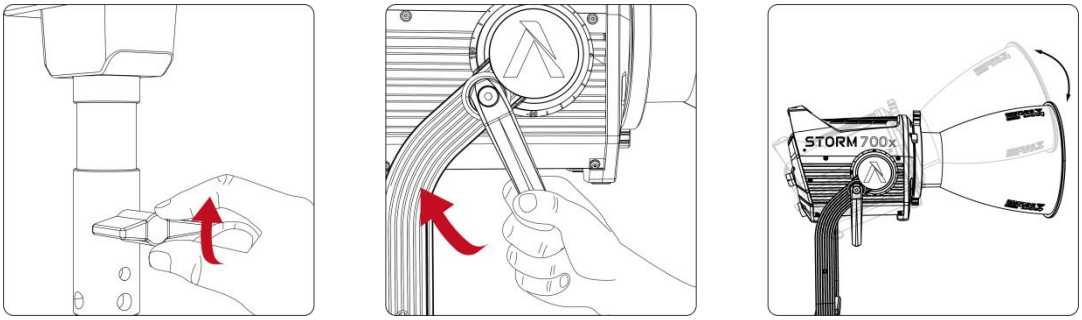
To attach the Reflector, insert it into the Bowen Bayonet Mount and rotate the ProLock Handle clockwise until locked. To detach the Reflector, rotate the ProLock Handle to the open position and remove it.



3. Setting Up the Lamp Head

Mount the Lamp Head into a Junior Receiver or onto a Baby Pin stud, and tighten in place.

Loosen or tighten the disc brake handle on the yoke to adjust the fixture's angle of tilt.

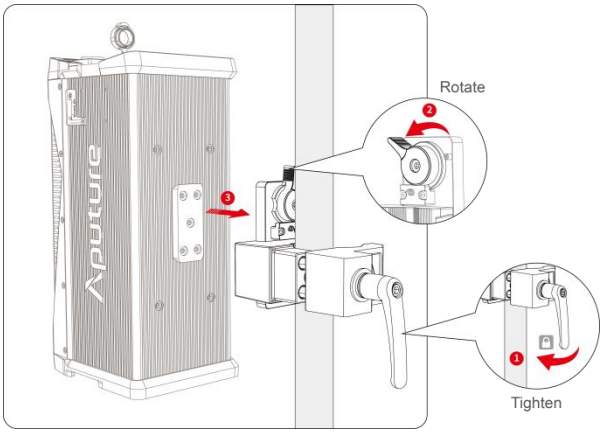


4. Using the Lightning Clamp

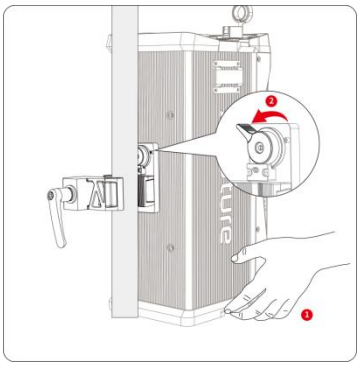
1) Attach the Lightning Clamp onto a light stand.

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.



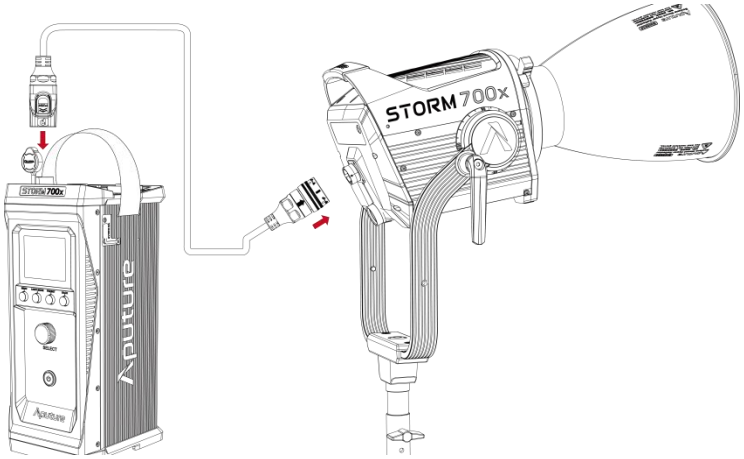
3) To remove the Control Box, grasp it firmly, and unlock the quick-release plate by rotating its lever.



* The Lightning Clamp can attach to round or square fittings with a diameter of 2-5cm / 0.79-1.97 in.

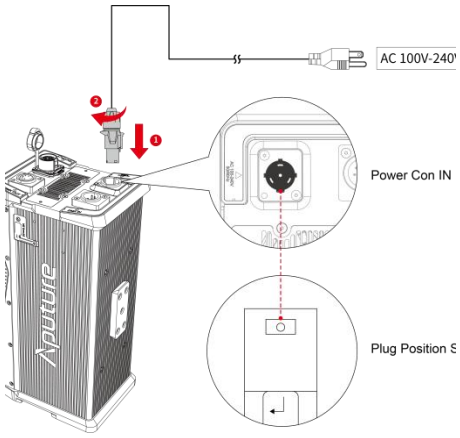
5. Connecting the Lamp Head to the Control Box

Connect the Lamp Head to the Control Box using the 8-pin Weatherproof Head Cable.



6. Powering Up the Control Box

1) By AC

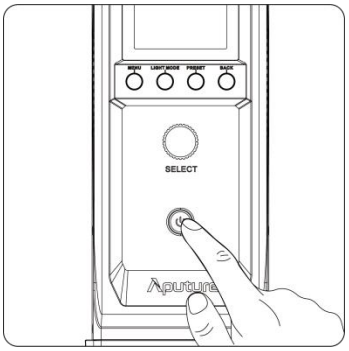


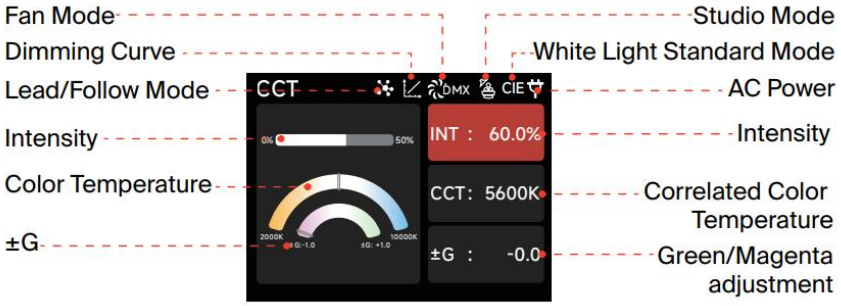
*To disconnect the cable, pull back on the silver release tab on the cable connector, and rotate the connector counter clockwise. Do not pull directly on the cable.

Operation Instruction

1. Powering On/Off

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



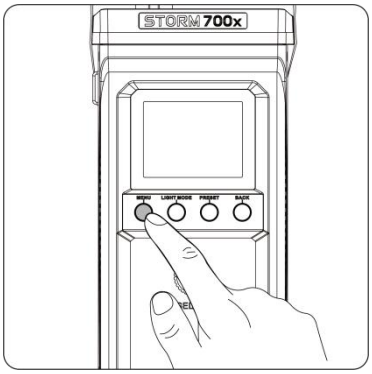


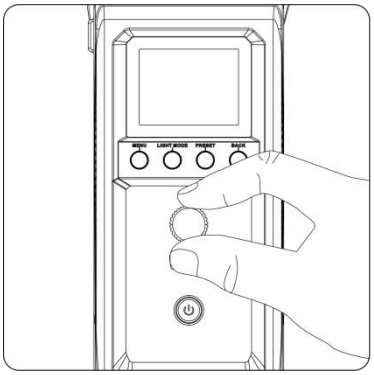
Note: If your fixture has Studio Mode "ON": the Control Box will power on whenever power is supplied to it.

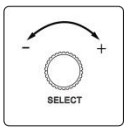
Lead/Follow Mode: Leader		Sidus BT Enabled	
Lead/Follow Mode: Follower		Receiving CRMX data	
Fan Mode: silent	Silent	CRMX, connected, no DMX data	
Fan Mode: High	High	connected to CRMX, no transmitter found	
Fan Mode: Medium	Medium	AC Power Detected	
Fan Mode: smart	Smart	CIE Daylight	CIE
Fan Mode: DMX	DMX	Blackbody	BB
Battery Power		Studio Mode: OFF	
Studio Mode: ON		Dimming Curve: Linear	
Dimming Curve: S-Curve		Dimming Curve: Exponential	
Dimming Curve: Logarithmic		/	/

2. Manual Control of Control Box

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

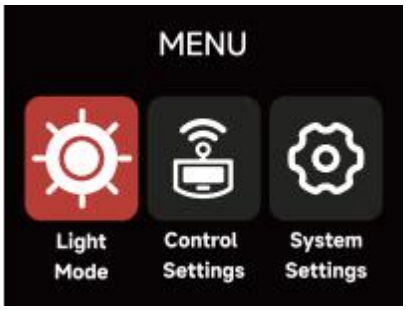






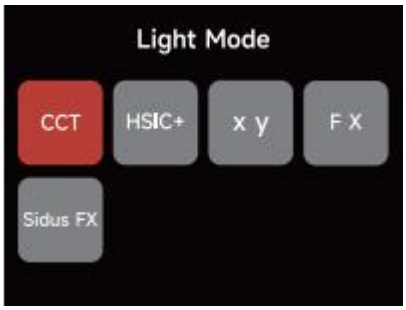
2.1 Menu

Press the MENU button to enter the System Menu interface. Choose between Light Mode, Control Settings or System Settings.



2.2 Accessing Lighting Modes

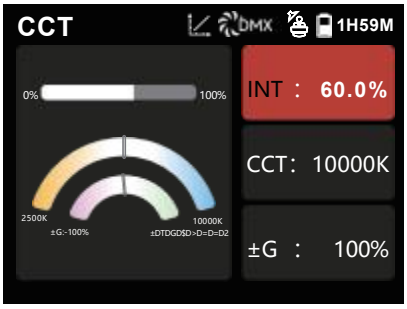
Press the Light Mode Button on the Control Box to enter the Light Mode interface. Choose between CCT, HSIC+, xy, FX, and Sidus FX modes.



*Note: Light Modes can only be accessed when no DMX data is present. Please ensure that DMX data is not being listened to by the Control Box in order to use Light Modes.

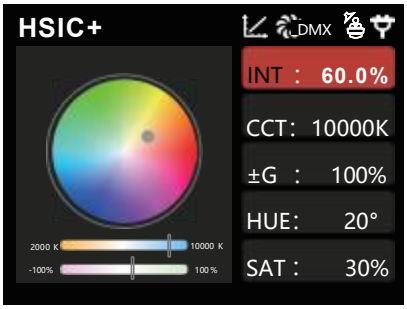
2.2.1 CCT

Adjust the Color Temperature (2500K-10000K) and the ±Green level (±100%).



2.2.2 HSIC+

Adjust the Intensity (0-100%), Color Temperature (1800K-20000K), ±Green level (-100% through +100%), Hue, and Saturation.

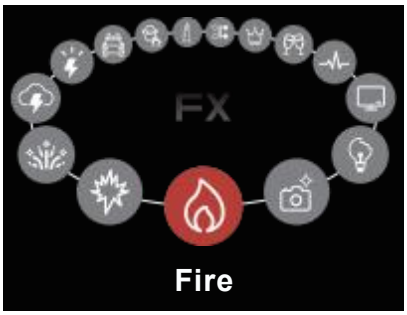


2.2.3 xy

Set the x coordinate value (0.1556~0.6814) and y coordinate value (0.0307~0.5456) and the Intensity.

2.2.4 FX

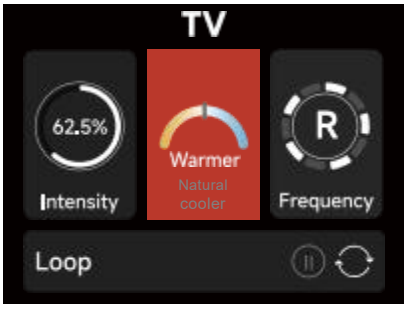
Select between FX modes: Fireworks / Explosions / Flames / Paparazzi / Defective Bulb / TV /Pulse / Flash/ Lightning.



Flame Mode

paparazzi Mode

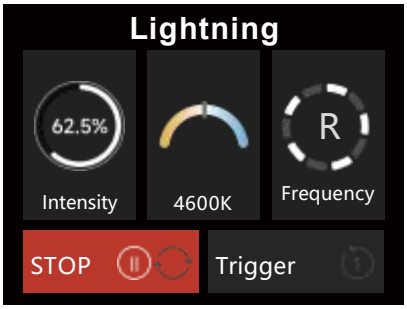
Faulty Bulb Mode



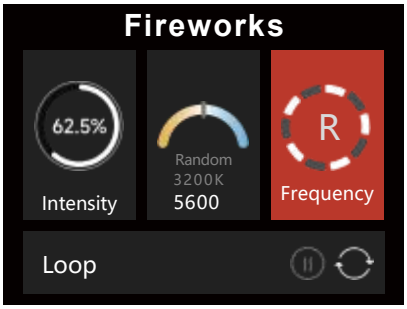
TV Mode

pulse Mode

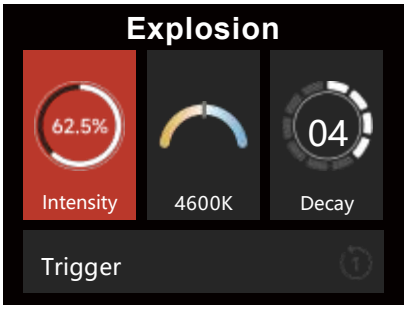
Flash Mode



Lightning Mode



Fireworks Mode

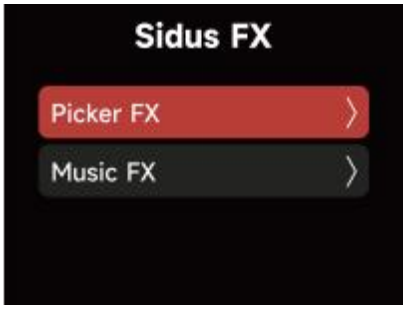


Explosion Mode

2.2.5 Sidus FX Mode

Select either Picker FX or Music FX. Both custom FX choices can save up to 10 FX. "NO FX" indicates that nothing has been saved to this slot. Untitled indicates that an effect has

been saved to the slot. The two types of light effects can save 10 custom light effects each. The suffix "NO FX" indicates that no light effect has been saved.



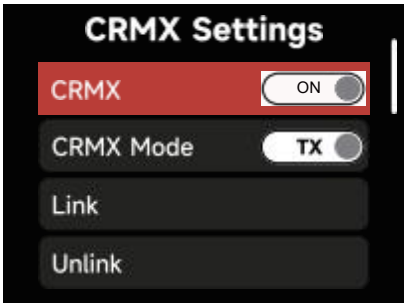
You can download custom lighting effects by connecting to the Sidus Link APP.

2.3 Control Settings

Choose between: DMX Settings, CRMX Settings, Sidus BT, and Lead/Follow Mode.

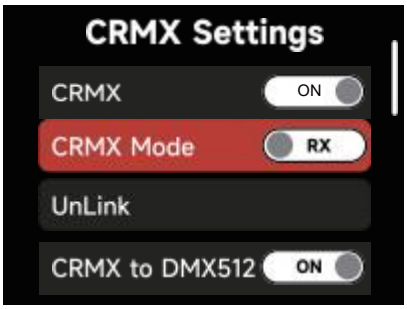
2. 3. 2 CRMX Settings

Turn CRMX ON or OFF.

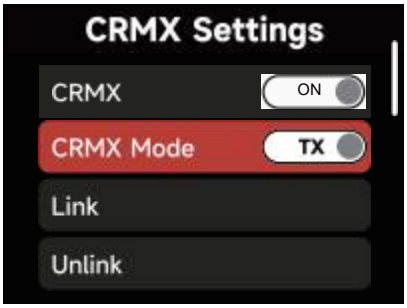


1) When CRMX is ON/Enabled, the fixture will listen for its previously linked Transmitter. If the fixture is currently unlinked, it will listen for a Transmitter link signal and link to any new CRMX link signal. Users can Unlink from previously linked Transmitters by selecting Unlink. Once a CRMX Link is established and DMX data is present, the display will change to the DMX Status Screen

2) When in CRMX RX Mode, CRMX to DMX512 "ON" pushes the received DMX data out of the DMX Out Port. If "OFF", then no data is pushed out of the DMX Out Port.

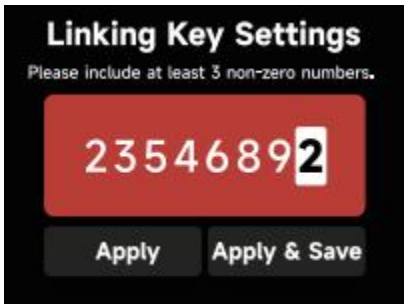


3) When utilizing CRMX TX Mode, the Light can transmit DMX data to receivers using CRMX. While acting as a CRMX TX, the Control Box can set a Linking Key for RX's to link to.

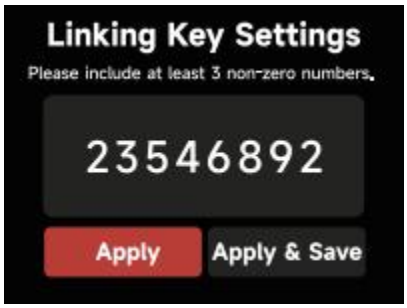


4) While acting as a CRMX TX, the Control Box can have a Linking Key for RX's to link to.

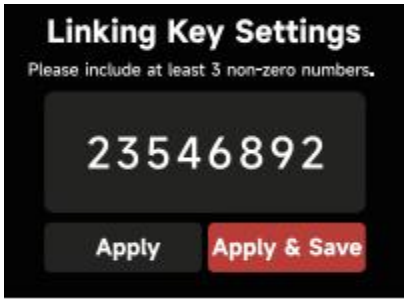
a. In the Linking Key interface, choose an 8 digit number to be the Linking Key. Three digits cannot be "0".

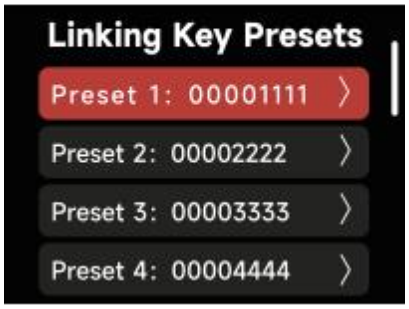


b. Choosing "Apply" sets the Linking Key. Presets can be saved for future use by selecting "Apply & Save".

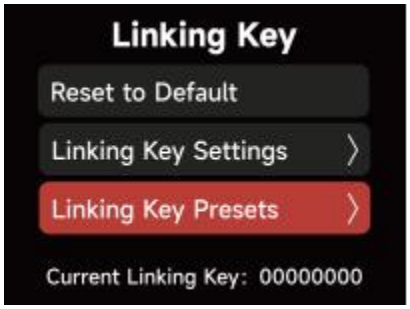


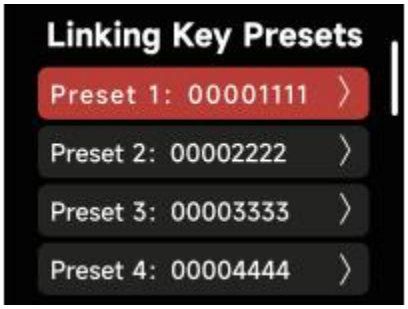
c. Save 10 Presets in total.

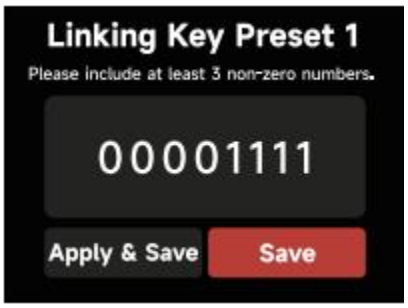




d. In the Linking Key Preset interface, save up to 10 Presets by choosing "Save" or set the Control Box's Linking Key and save it as the selected Preset by choosing Apply and Save.







5) CRMX RX (Receiving) Status.

a. Signal Strength: When DMX data is provided to the Control Box acting as an RX , the DMX Status Screen will indicate the CRMX signal strength the Control Box is receiving.

signal strength

b. CRMX Signal is good and DMX data is present.

c. No DMX data present.

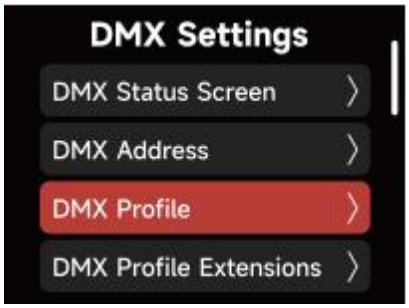
d. The Control Box CRMX RX is out of range of its TX. Check that the TX is powered On and within range.

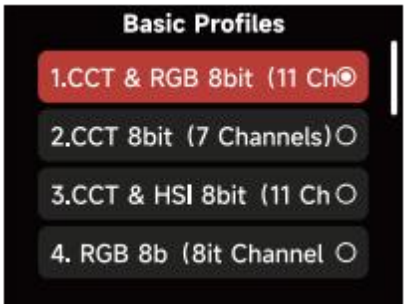
2.3.1 DMX Settings

1) DMX Status Screen: Displays DMX data status, the DMX address, the DMX Profile being used, the CRMX Signal Strength, Fan Mode, Dimming Curve, Studio Mode in use, Output Mode, Power Status and more.

2) DMX Address: Set the DMX address of this device.

3) DMX Profile: Choose which DMX Profile to use. Refer to the DMX Chart for the specifics of each profile.





4) DMX Loss Behavior--Choose from the following options:

I: Hold Last Look: when DMX signal is lost, DMX values will be retained until signal is regained.

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

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

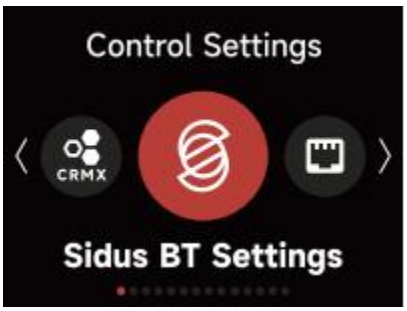
IV. Hold 2 min.&Fade Out: when DMX signal is lost, the DMX values are retained for two minutes before fading out over a time of 60 seconds.

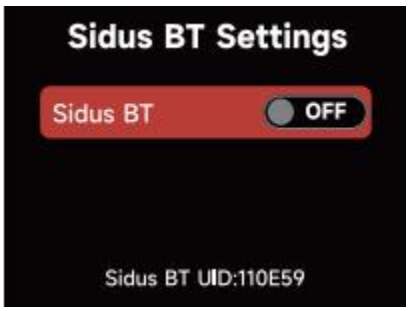
5) DMX Smoothing: Set the smoothness of DMX dimming.

6) DMX Termination: Turn ON (to help with DMX signal reflection) or OFF.

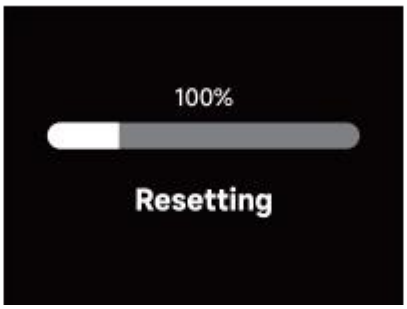
2.3.3 Sidus BT Setting

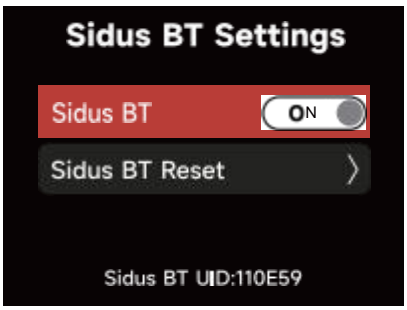
1) Turn Sidus BT ON or OFF in the Sidus BT settings.





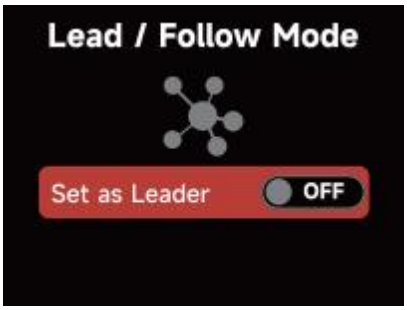
2) When Sidus BT is "ON": the serial number is displayed here to facilitate connecting with the Sidus Link Pro and Sidus Link Apps. Use Sidus BT Reset to allow your Sidus Link device to connect with a new controller. If Sidus BT fails to reset, a "Reset Failed" warning will pop up before returning to the Sidus BT Reset display.





2.3.4 Lead/Follow Mode

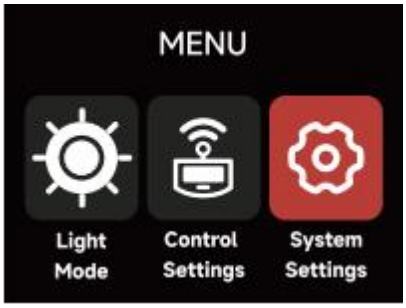
In this interface, set fixtures as either the Leader or the Follower (Leader/"OFF"). The Leader automatically sends its settings to the Follower fixtures for synchronization. Batch upgrades of the firmware from a USB drive in the Leader's port is also possible.



* The leader fixture should be connected with the followers via DMX to enable this function.

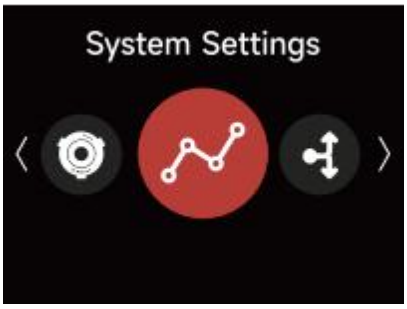
2.4 System Settings

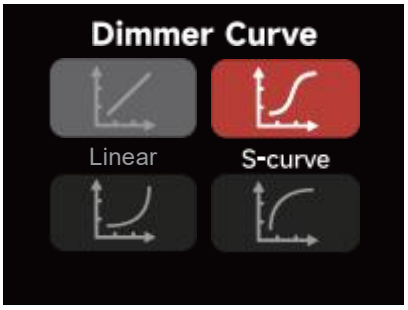
System Settings include: Dimming Curve, Output Settings, White Light Standard, Fan Mode, Studio Mode, Screensaver Settings, Language, Product Info, Firmware Update, and Factory Reset options.



2.4.1 Dimming Curve

The following Dimming Curves are available: Linear, Logarithmic, S-Curve and Exponential.

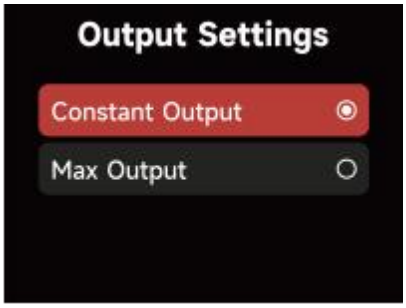




2.4.2 Output Settings

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

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



2.4.3 White Light Standard

1) CIE Daylight: meets the sunlight standard

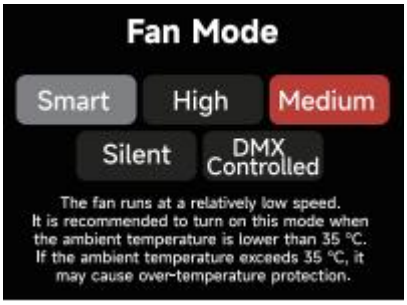
(5000K-10000K, Duv is controlled at 0.0020~0.0040);

2) Blackbody: meets the blackbody luminescence standard
(Duv is controlled near the blackbody trajectory line)

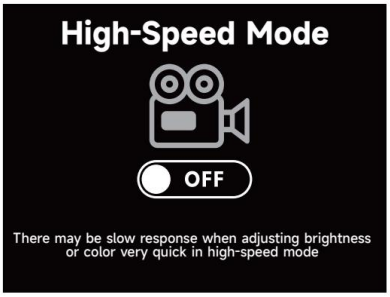
2.4.4 Fan Mode

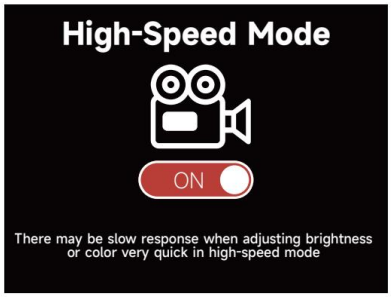
In the System Settings Fan Mode, rotate the Select Wheel and press to choose between Smart,High, Medium, Silent and DMX Controlled Fan Mode.

When using the DMX Controlled Fan Mode, the options for the Fan are:
1) **Smart:** able to work in -20°C/-4°F through 45°C/113°F environment, the lamp will automatically adjust the fan speed according to different ambient temperatures.
2) **Max:** able to work in -20°C/-4°F through 45°C/113°F environment, fan will maintain its highest speed. In High-Speed Mode, the fan uses the Max Fan setting.
3) **Medium:** Capable of working in -20°C/-4°F through 35°C/95°F environments, the fan uses a medium speed. Medium is the slowest speed possible for Maximum Output.
4) **Silent:** When working in an environment of -20°C/-4°F through 45°C/113°F, the fan stays OFF, but the output of the lamp is limited to 75W. See the STORM 700x DMX Chart for details.
5) **DMX Controlled**: Fan listens to the settings sent by the lighting console. See the STORM 700x DMX Chart for details



2.4.5 High-Speed Mode



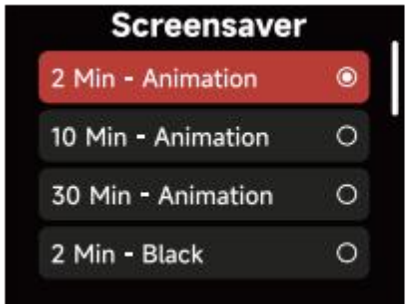


2.4.6 Studio Mode

When 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.

2.4.7 Screensaver

Select the Screensaver time and display behavior.



2.4.8 Language

Select between English or Chinese and press the Select Wheel to confirm.

2.4.9 Product Information

The Firmware Version, SN, Sidus BT ID, Hardware Version and Operating status, can all be checked in the Product Info interface.

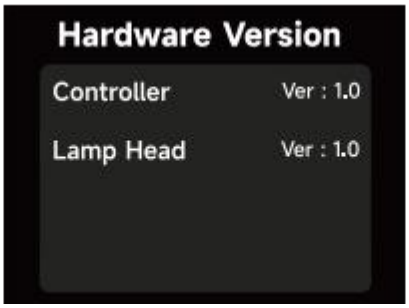
1) Firmware Version: Display the Firmware Version of the Control Box and attached Lamp Head.

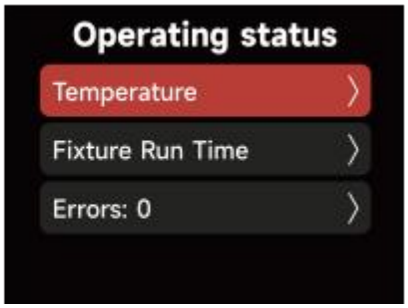
2) SN: Serial Number.

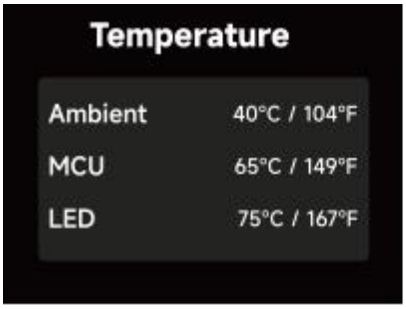
3) Sidus BT ID.

4) Hardware Version: Display the hardware versions of the Control Box and attached Lamp Head.

5) Operating status: Display the Temperature, Control Box and attached Lamp Head Run Time, and any Error Code.



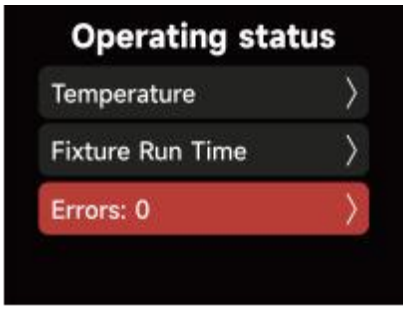




Errors are divided into two categories:

a. Serious error: When a serious error occurs, the fixture cannot be used and will be locked for protection. Please respond to the error according to the fault prompt.

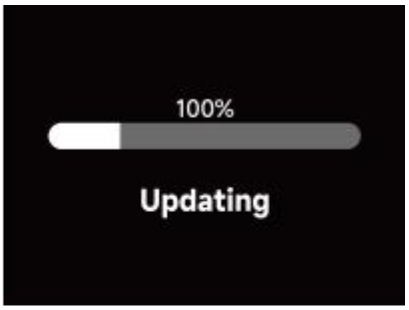
b. General error: When a general error occurs, the fixture is still available for use; enter the Product Info Interface to view the error details.



2.4.10 Firmware Information

Upgrade the firmware by inserting a USB flash drive with the latest firmware on its root drive into the USB-A port of the Control Box . The current firmware version is also listed in this interface. NOTE: The fixture 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. Remember to attach the Lamp Head to ensure that both the Control Box and Lamp Head are updated with new firmware.

Batch firmware upgrade: Enabled when Lead/Follow Mode is turned on; batch upgrade requires inserting a USB flash drive with the latest firmware into the Leader fixture.



2.4.11 Factory Reset

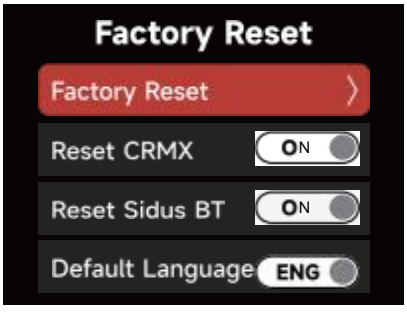
To Factory Reset your fixture, first select if the fixture should have the CRMX and the Sidus BT Settings reset. Also select the default language, then select “YES”. Select "NO" to cancel.

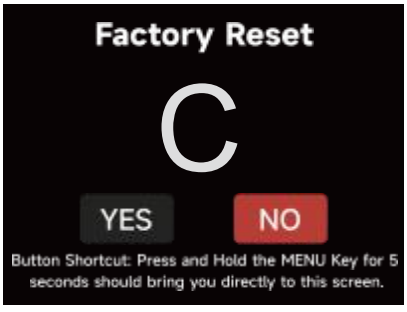
Choose to Reset CRMX, Reset Sidus BT, Default Language.

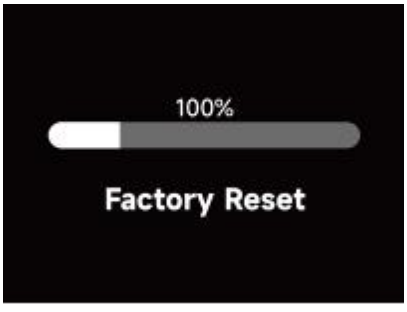
Hold the Menu button for 5 seconds to initiate the Factory Reset Shortcut.

Factory settings:

Light Mode	CCT; color Temperature: 3200k
Intensity	0
output Mode	Maximum output
Lead/Follow Mode	off
screensaver	30 Minutes
white Light standard	CIE Daylight
Fan Mode	smart
Dimming curve	Linear
studio Mode	on
Fx Mode	Fireworks, Brightness 0%, Color Temperature: 3200k, Frequency: 5
DMX	Channel 001 , Hold Last Look, DMX Termination: off, DMX Smooth: Smooth

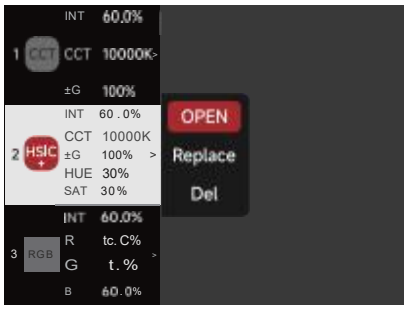






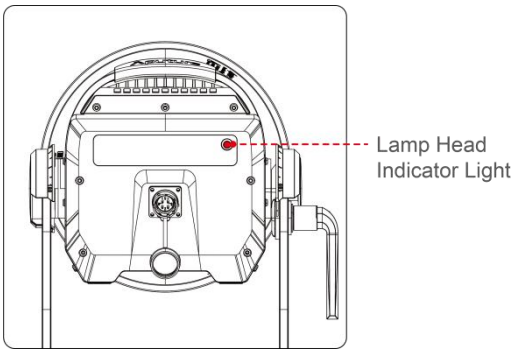
2.5 Presets

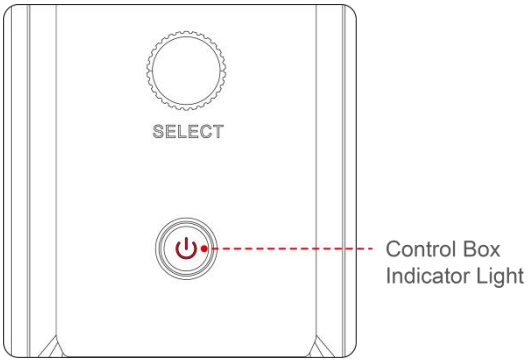
10 Light Mode Presets can be saved. Choose your settings within the CCT, HSIC+, x y or FX Mode. Then press the PRESET button to open the Preset interface. Select the Preset number to open, replace or delete the Preset.



2.6 Status Indicator Light

Indicator	Status	Description
Control Box Indicator	Off	Control box power is not connected, or the control box power supply is damaged
	Red	Control box power is normal, but the control unit is malfunctioning
	Green	Control box power is normal, and the control unit is functioning normally
	Orange	Control box power is normal, but the control unit has detected a product fault
Lamp Head Indicator	Off	Lamp head power is not connected, or the lamp head power supply is damaged
	Red	Lamp head power is normal, but the lamp head control unit is malfunctioning
	Green	Lamp head power is normal, and the lamp head is functioning normally
	Orange	Lamp head power is normal, but the control unit has detected a product fault





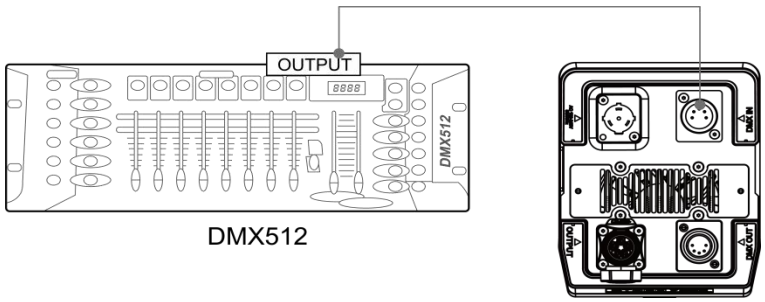
2.7. Shortcut Button

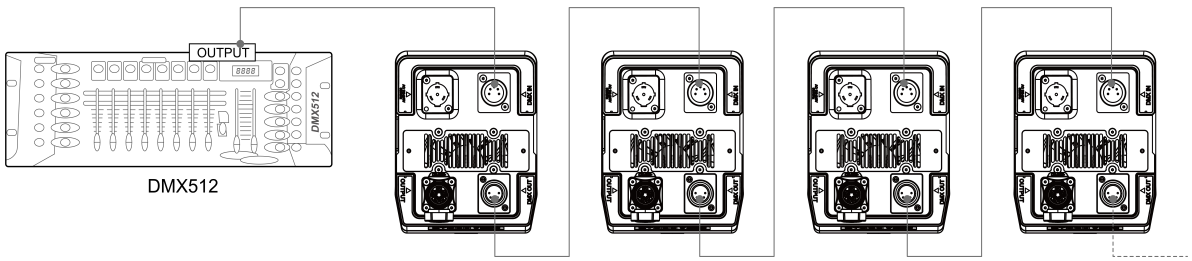
Operation	Description
Long press MENU for 5 seconds	Factory Reset
Long press BACK for 5 seconds	Sidus BT Reset

3. Control with a DMX Console

Connect the Lighting Console to the STORM 700x Control

Box DMX IN Port:





4. 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 for more details on enhancing the Aputure experience with these Apps.

Sidus Link
&Sidus Link Pro

https://help.sidus.link/

Product Specifications

Power Consumption(Max)	850W	Output Power (Max)	700W
Voltage Input Range	100-240VAC	Operating Current	9A
Operating Temperature	-20℃ ~ 45℃	Storage Temperature	-40℃ ~ 45 ℃
Color Temperature	2500-10000K	IP Rating	IP65
CRI	95+	TLCI	95+
SSI (5600K)	87	SSI (3200K)	87
TM-30 Rf (average value)	95	TM-30 Rg (average value)	100
Cooling Method	Air Cooling	Operating Temperature	-20℃ ~ 45℃
Control Methods	On-Board, Sidus Link Pro / Sidus Link App, DMX/RDM, CRMX		
Bluetooth Wireless Range	100m	CRMX Wireless Range	100m
Size	Lamp Head	27.4 x 27.2 x 50.3cm 10.8 × 10.7 × 19.8 inch	
	Control Box	12.3 x 15.4 x 31.4cm 4.8 × 6.1 × 12.4 inch	
Weight	Lamp Head	5.15kg / 11.35 lbs	
	Control Box	4.1kg / 9.04lbs	

Firmware Updating	Sidus Link，Sidus Link Pro
	USB-A
	Lead/Follow Mode

Photometrics

CCT	Distance	No Reflector	35˚ Hyper Reflector	25˚ Hyper Reflector	CF10 Fresnel	
					15˚	40˚
2500K	1m	36,700 lux	––	––	––	71,000 lux
		3,411 fc	––	––	––	6,599 fc
	3m	4,200 lux	12,480 lux	18,120 lux	37,400 lux	7,850 lux
		390 fc	1,160 fc	1,684 fc	3,476 fc	730 fc
	5m	1,588 lux	4,100 lux	6,040 lux	13,020 lux	3,030 lux
		148 fc	381 fc	561 fc	1,210 fc	282 fc
3200K	1m	42,400 lux	––	––	––	82,300 lux
		3,941 fc	––	––	––	7,649 fc
	3m	4,870 lux	14,430 lux	20,950 lux	43,300 lux	9,990 lux
		453 fc	1,341 fc	1,947 fc	4,024 fc	928 fc
	5m	1,839 lux	3,930 lux	5,880 lux	15,050 lux	3,510 lux
		171 fc	365 fc	546 fc	1,399 fc	326 fc
4300K	1m	53,700 lux	––	––	––	104,100 lux
		4,991 fc	––	––	––	9,675 fc
	3m	6,210 lux	18,120 lux	26,430 lux	54,700 lux	11,590 lux
		577 fc	1,684 fc	2,456 fc	5,084 fc	1,077 fc
	5m	2,330 lux	5,040 lux	7,560 lux	19,000 lux	4,440 lux
		217 fc	468 fc	703 fc	1,766 fc	413 fc
5600K	1m	54,900 lux	––	––	––	107,500 lux
		5,102 fc	––	––	––	9,991 fc
	3m	6,370 lux	18,670 lux	27,190 lux	56,200 lux	11,900 lux
		592 fc	1,735 fc	2,527 fc	5,223 fc	1,106 fc

Photometrics

5600K	5m	2,394 lux	5,320 lux	7,950 lux	19,550 lux	4,570 lux
		222 fc	494 fc	739 fc	1,817 fc	425 fc
6500K	1m	53,600 lux	——	——	——	104,700 lux
		4,981 fc	——	——	——	9,730 fc
	3m	6,190 lux	18,250 lux	26,520 lux	54,700 lux	11,570 lux
		575 fc	1,696 fc	2,465 fc	5,084 fc	1,075 fc
	5m	2,333 lux	5,380 lux	8,060 lux	19,050 lux	4,460 lux
		217 fc	500 fc	672 fc	1,770 fc	414 fc
7500K	1m	49,200 lux	——	——	——	96,100 lux
		4,572 fc	——	——	——	8,931 fc
	3m	5,660 lux	16,760 lux	24,300 lux	50,100 lux	10,610 lux
		526 fc	1,558 fc	2,258 fc	4,656 fc	986 fc
	5m	2,136 lux	5,240 lux	7,810 lux	17,470 lux	4,080 lux
		199 fc	487 fc	659 fc	1,624 fc	379 fc
10000K	1m	40,900 lux	——	——	——	80,000 lux
		3,801 fc	——	——	——	7,435 fc
	3m	4,720 lux	13,930 lux	20,200 lux	41,700 lux	8,850 lux
		439 fc	1,295 fc	1,877 fc	3,875 fc	822 fc
	5m	1,778 lux	4,650 lux	6,960 lux	14,520 lux	3,400 lux
		165 fc	432 fc	647 fc	1,349 fc	316 fc

Safety Instructions

When using this product, basic safety precautions should always be followed, including:

1. Read and understand all instructions before using the fixture.

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 any 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 contac twith hot surfaces.

6. If an extension cord is necessary, a cord with an amperage rating at least equal to that required by the fixture should be used. Cords rated for less amperage will 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 cables from the lighting fixture and store them in assigned spaces of the carrying case (if being used).

9. Do not immerse this fixture in water or any other liquid to avoid electric shock.

10. Do not disassemble the fixture to avoid the risk of fire or electric shock. 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. Using 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. Power this fixture by connecting it to a grounded outlet.

13. Remove the Protective Cover before use.

14. Do not block the ventilation openings or look at the LED light source directly when it is powered on. Do not touch the LED light source in any condition.

15. Do not place the product near combustible and volatile solvents to avoid product damage.

16. Use a soft and dry cloth to clean the device.

17. Ensure all the ports and plugs are completely dry when using the fixture in wet environments to avoid short circuit or electric shock.

18. Service and maintenance should only be carried out by authorized service personnel. Any malfunctions caused by unauthorized disassembly are not covered by the warranty. The user may pay for service and maintenance.

19. When hanging the fixture overhead, always ensure an extra safety measure has been attached -such as safety chains- that is certified for the weight of the fixture. 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 service and maintenance. When hanging the fixture overhead, always ensure an extra safety measure has been attached -such as safety chains- that is certified for the weight of the fixture.

20. 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 the warranty. The user may pay for service and maintenance.

21. The User's Manual was formulated based on rigorous tests performed by the Company. No further notice will be given in the event of any change in its design and specifications.

SAVE THESE INSTRUCTIONS

FCC Compliance Statement

WARNING

Changes or modications 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 Warning Statement:

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

Disclaimer

Please read the Product Manual before usage to ensure that you have fully understood the instructions and can correctly operate the device. After your reading, please keep the Product Manual properly for reference in the future. If you fail to operate the product correctly, you may get injured seriously or harm others seriously,or damage the product and result in your property damage. Your operation of the product will be deemed that you have understood, recognized and accepted all clauses and content of this document. Users undertake to be responsible for their behaviors and the consequences accordingly.

Aputure will not be responsible for all losses arising from users' operation of this product not in accordance with the User's Manual.

The Company reserves the right for the final explanation of this document and all documents relating to the product on the premise of compliance with laws and regulations. No further notice will be given in the event of any update, revision or termination. Please access the official website of Aputure for the up-to-date product information.