

Aputure[®]

Light  storm

LS 300x

Product Manual

English

Foreword

Thank you for purchasing Aputure “Light Storm” LS 300x.

The Aputure LS 300x is a Bi-color Point Source LED Light Fixture. We've taken all of your favorite features of the daylight-balanced 300d II and added Expanded Bi-color CCT control, making it the first Bowens Mount Bi-color LED that can be used with optical modifiers properly.

IMPORTANT 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.

Detailed product manual for Light Storm can be found on www.aputure.com.

8. Let the lighting fixture cool completely before storing.
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 it to qualified service personnel when service or repair work is required. Incorrect reassembly may cause electric shock when the lighting fixture is in use.
11. The use of an 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. Please remove the protective cover before powering on the light.
14. Please remove the protection cover before using the reflector.
15. Please do not block the ventilation and do not look at the light directly when it is powered on.
16. Please do not place the LED lighting fixture near any liquids or other flammable objects.
17. Only use a dry microfiber cloth to clean the product.
18. Please have the product checked by an authorized service personnel agent if your product has a problem.
19. The malfunctions caused by unauthorized disassembly are not covered under the warranty.
20. We recommend only using the original Aputure cable accessories. Please note that our warranty for this product does not apply to any repairs required due to any malfunctions of unauthorized Aputure accessories, although you may request such repairs for a fee.



21. This product is certified by RoHS, CE, KC, PSE, and FCC. Please operate the product in full compliance with the operation standards. Please note that this warranty does not apply to repairs arising from malfunctions, although you may request such repairs on a chargeable basis.
22. 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.

SAVE THESE INSTRUCTIONS

FCC Compliance Statement

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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: 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.

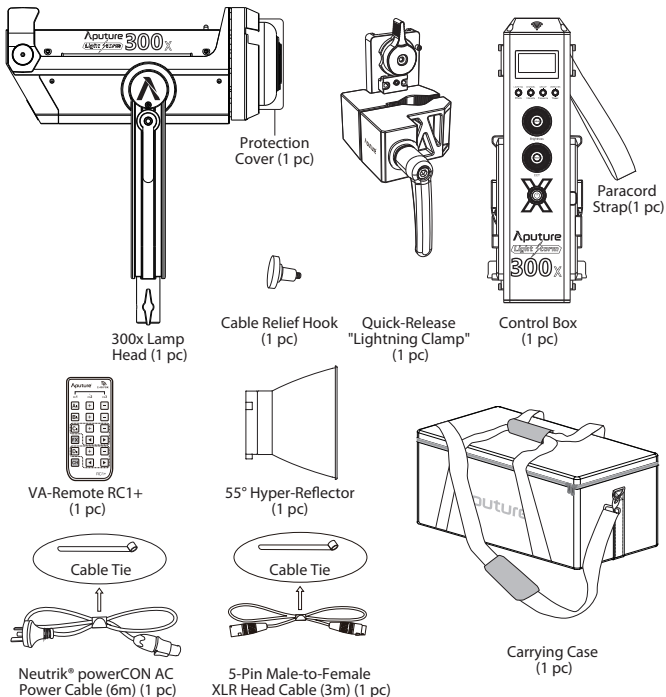
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a different circuit than the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

RF Warning Statement:

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

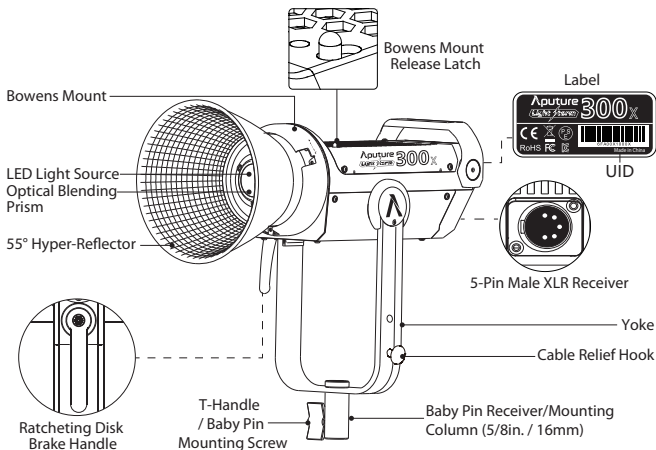
Check list

When you unbox the product, please make sure all the items listed below are included. Otherwise, please contact the seller immediately.

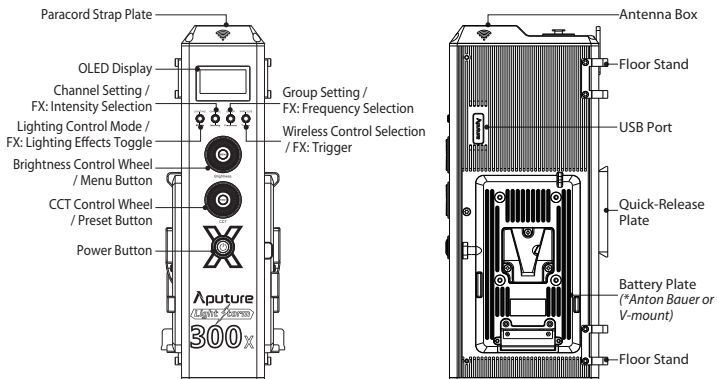


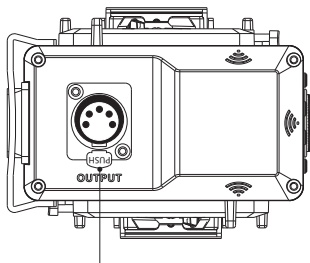
Product Details

1. Light

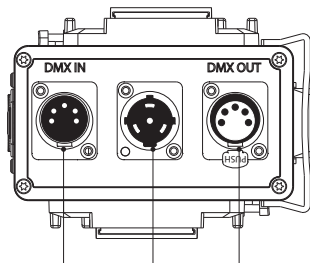


2. Controller box



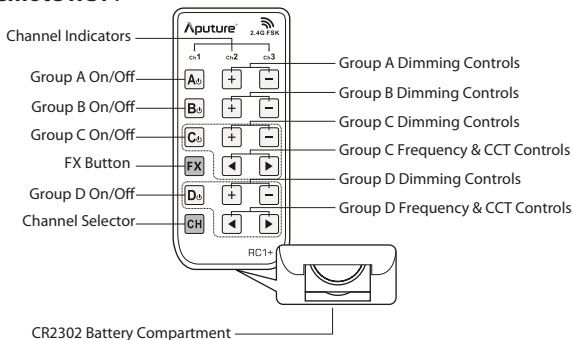


5-Pin Female XLR Power Output



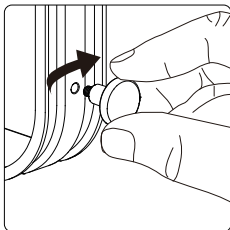
DMX IN Port Neutrik® powerCON Power Input DMX OUT Port

3. VA-Remote RC1+



Installations

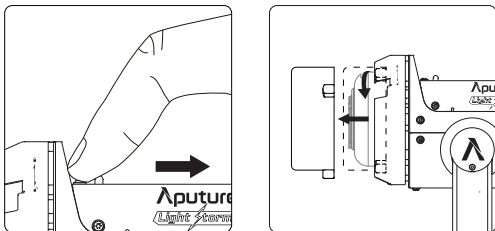
1. Installing the cable relief hook



2. Attaching/detaching the protection cover

Pull back the retaining pin, rotate the cover clockwise, then detach the cover.

To reattach the cover, insert it into the Bowens mount and rotate counterclockwise.

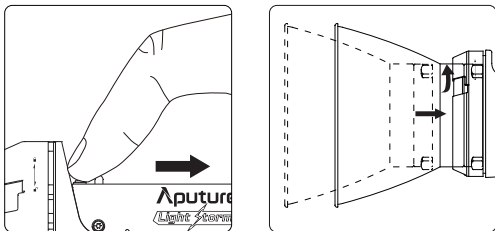


Notice: Always remove the protection cover prior to turning on the light. Always re-install the cover when packing it away.

3. Attaching/detaching the Hyper-Reflector

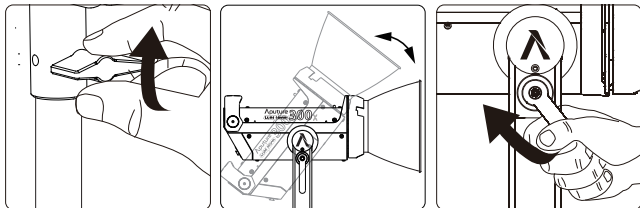
To install the reflector, pull back the retaining pin, insert the reflector into the Bowens mount, and rotate it counterclockwise as shown in the following pictures.

To remove the reflector, pull back the retaining pin and rotate the reflector clockwise.



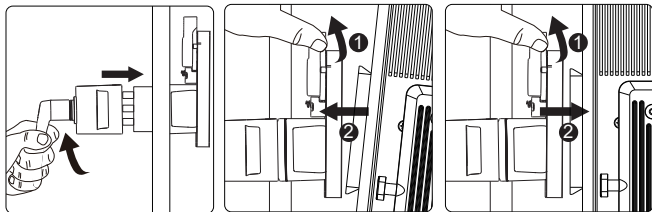
4. Setting up the Light

Mount the light onto a light stand, then fix it in place using the T-Handle/Mounting Screw on the Baby Pin Receiver/Mounting Column (5/8in. / 16mm). Then loosen/tighten the handbrake locking mechanism on the yoke to adjust the fixture's angle of tilt.



5. Instructions for the Quick-Release "Lightning Clamp"

- 1) Clamp the Lightning Clamp onto a light stand.
- 2) To attach the control box, rotate the release lever to unlock the quick-release baseplate, then mount the control box onto the Lightning Clamp (the release lever will automatically spring back).
- 3) To remove the control box, grasp it firmly, then unlock the quick-release plate by turning the release lever, and detach the control box.

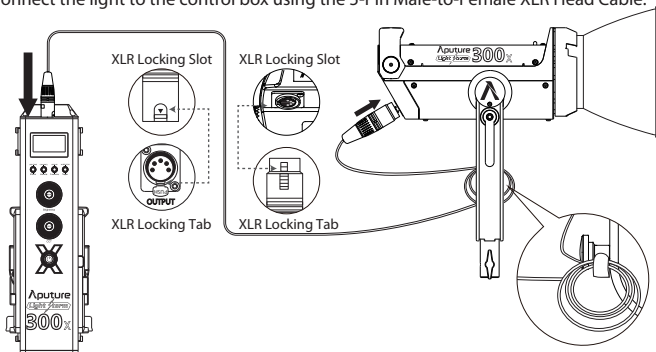


Specifications

Weight	670g / 1.48lbs	Sizes (L*W*H)	10.35x8.74x12.5cm / 4.07x3.44x4.92in
* The Quick-Release "Lightning Clamp" can clamp onto square or round pipe with a diameter between 2-5cm or 0.79-1.97in.			

6. Connect the light to the control box

Connect the light to the control box using the 5-Pin Male-to-Female XLR Head Cable.

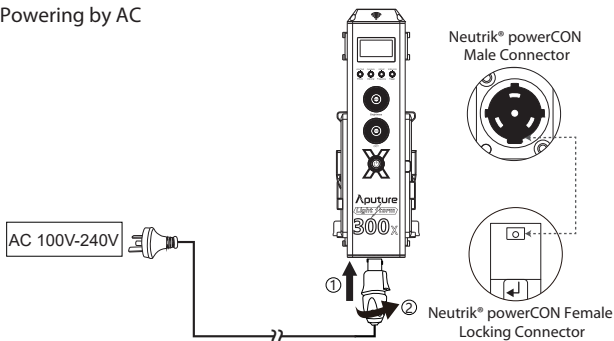


* Hang the cable from the head cable relief hook to manage and reduce tension on the cable.

* Disconnect the XLR head cable by pushing down on the locking tabs on the female XLR connectors, then remove the cable.

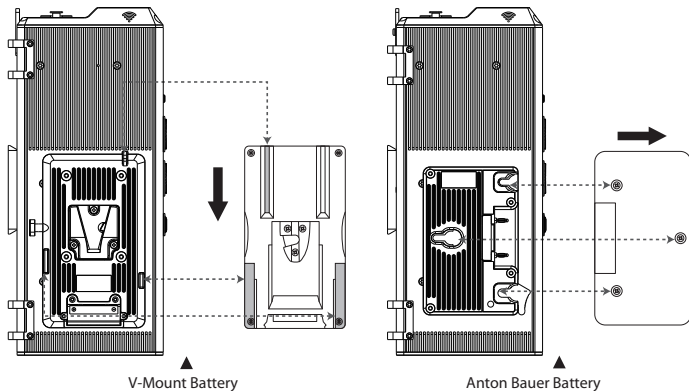
7. Powering up the controller

1) Powering by AC



To disconnect the Neutrik® powerCON cable, pull back on the yellow release tab on the cable connector, and rotate the connector counterclockwise.

2) Powering by Batteries



* Batteries: Voltage 12~16.8V; Recommended $\geq 15A$ continuous discharge.

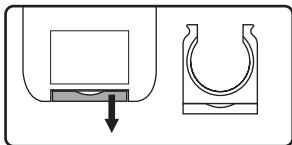
* The LS 300x can be operated using a single battery for up to half of the fixture's maximum output. Plugging the light into AC power or using two batteries allows you to utilize the light's full output. When powering the light from a single battery, you must install the battery on the right side of the control box, or the light will not turn on.

* Do not use non-14.4v batteries (batteries with voltages outside of the 12-16.8V range). Using higher voltage batteries will damage the power supply and the lighting fixture.

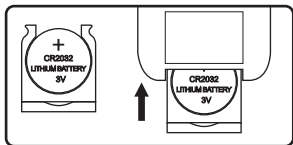
* Only use batteries that support the necessary continuous current discharge specifications mentioned above. If non-compatible batteries are used, the batteries will enter a protection state and the lighting fixture will not operate as intended.

* Customers can choose V-Mount or A-Mount battery plates for their control boxes upon purchase according to their needs.

8. Insert the button battery to power VA-Remote RC1+



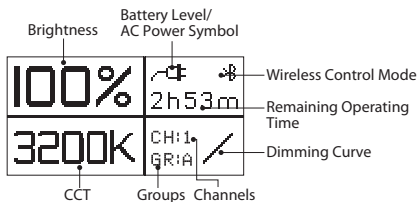
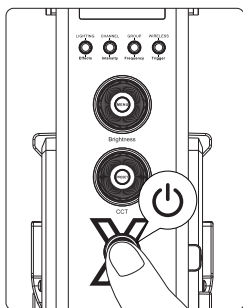
Remove battery compartment



Install button battery and insert it into the VA-Remote RC1+

Operations

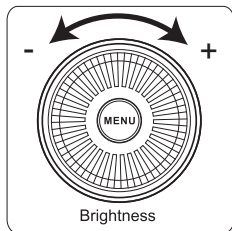
1. Press the power button to turn the light on and off



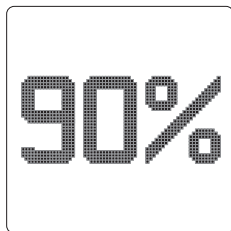
* Default: Channel 1, Group A

2. Manual Control

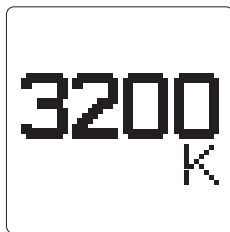
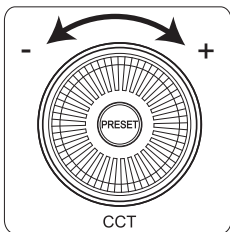
- 1) Rotate the Brightness Control Wheel to adjust the intensity of the light from 0-100%.



Brightness



2) Rotate the CCT Control Wheel to adjust the color temperature of the light from 2700K-6500K.



3) Lighting FX Mode

Press and hold the Effects button for 2 seconds to activate Lighting FX mode, then short press the Effects button to toggle between Paparazzi, Fireworks, Faulty Bulb, Lightning, TV, Pulsing, Strobe, Explosion, Fire, etc.

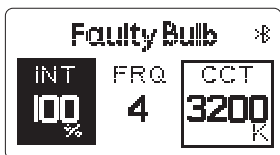
a. Paparazzi Effect



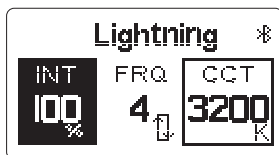
b. Fireworks Effect*



c. Faulty Bulb Effect



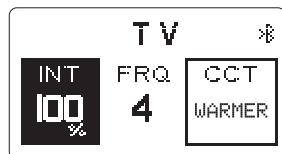
d. Lightning Effect**



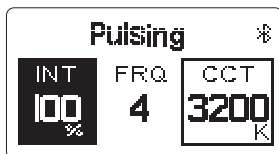
* As of writing this the Fireworks effect worked in a CCT range presets include three choices of 3200K/5600K/Random.

** When controlling the lightning effect, short press the Trigger button to single trigger the lighting effect; long press the Trigger button to enter the Lightning Cycle Mode.

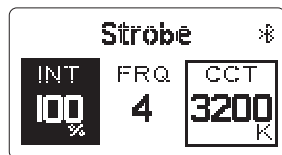
e. TV Effect*



f. Pulsing Effect



g. Strobe Effect



h. Explosion Effect**



i. Fire Effect***



* As of writing this the TV effect worked in CCT range presets and you cannot set a fixed base CCT.

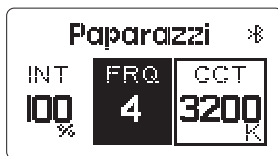
** When controlling the explosion effect, short press the Trigger button to single trigger the lighting effect.

***As of writing this the Fire effect worked in CCT range presets and you cannot set a fixed base CCT.

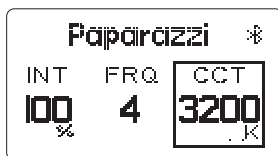
When in Lighting FX mode, short press the "Intensity" button to enter Intensity Adjustment Mode. Then rotate the Brightness Control Wheel to adjust the intensity from 10%-100% as displayed on the screen.



When in Lighting FX mode, short press the "Frequency" button to enter Frequency Adjustment Mode. Then rotate the Brightness Control Wheel to adjust the frequency of the effect from 1 to 10 and R (Random) as displayed on the screen.



When in Lighting FX mode, rotate the CCT Control Wheel to adjust the base CCT of the lighting effect from 2700K to 6500K as displayed on the screen.

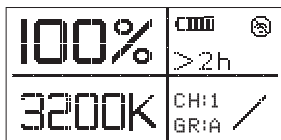
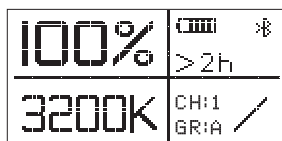
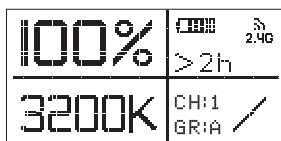


* As of writing, you cannot set a fixed base CCT for certain effects, such as: Fireworks, TV, and Fire.

** If the light is powered off, upon turning on again, the light will resume its last saved setting.

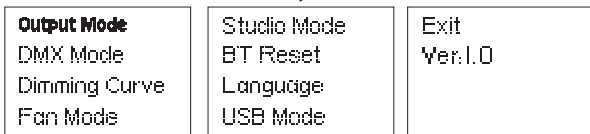
4) Wireless Connectivity Modes

Press the Wireless/Trigger button in order to switch between 2.4GHz Wireless Remote Control, Bluetooth SIG Mesh Sidus Link App Control^{***}, and no wireless control.



^{***} When setting up the device with the Bluetooth mobile application, the corresponding name of the fixture is LS 300x ***** (six digits + letters represent the fixture's serial number).

5) Press the MENU button to enter the system menu interface, as shown below.

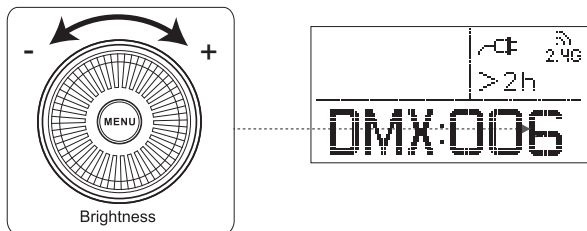


6) DMX mode

Press the MENU button to enter the system menu, rotate the dimming wheel to select DMX mode and press the MENU button again to enter DMX mode.

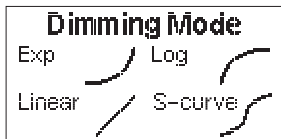


When in DMX mode, rotate the brightness control wheels to set the device's DMX channel. Then press the MENU button to take you back to the Menu interface.



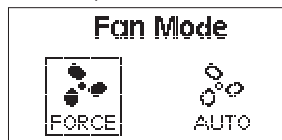
7) Dimming curve mode

Press the MENU button to enter the system menu, rotate the dimming wheel to select Dimming Curve, and press the MENU button again to enter the dimming curve selection menu. Using the wheel to choose from exponential (Exp), logarithmic (Log), S-Curve, or linear dimming curves, and press the MENU button to make your selection.



8) Fan mode

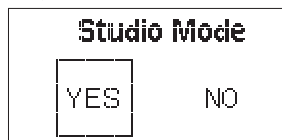
Press the MENU button to enter the system menu, rotate the dimming wheel to select Fan Mode, and press the MENU button again to enter Fan Mode. Use the wheel to select between Force* and Auto, then press the MENU button to confirm your selection.



** In "Force Mode" the fan will continuously spin at its maximum speed. In "Auto Mode" the fan will only begin spinning when the light has reached 45°C.*

9) Studio mode

Press the MENU button to enter the system menu, rotate the dimming wheel to select Studio Mode, and press the MENU button again to enter the Studio Mode** menu. Once in the menu, use the wheel to choose between "YES"*** or "NO" and press the MENU button to confirm your selection.

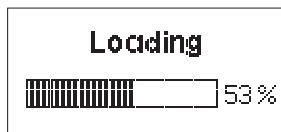
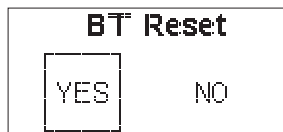


*** When Studio Mode is active, the light will turn on as soon as it receives power, without having to press the power button.*

**** Studio Mode is active as the factory default.*

10) Bluetooth reset

(1) Press the MENU button to enter the system menu, rotate the dimming wheel to select BT Reset. Press the MENU button again to enter the Bluetooth Menu. Use the wheel to select "YES" to reset the Bluetooth pairing (the pop-up window displays the current reset progress and is completed within 5 seconds); or select "NO" to return to the previous menu.



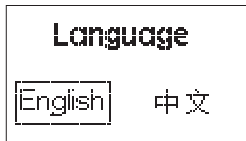
(2) After resetting the light's Bluetooth connection, your mobile phone or tablet will be able to connect to and control the light****.

(3) If the Bluetooth Reset fails, a [Reset Failed] screen will pop-up, and the light will return to Bluetooth mode after 2 seconds.

***** The light must be connected to your mobile device using the Sidus Link mobile application, and not via your device's typical Bluetooth connection menu.*

11) Language

Press the MENU button to enter the system menu, rotate the dimming wheel to select Language, and press the MENU button again to enter the Language menu*. Use the wheel to select from the available languages. Initial languages include "English" and "Chinese".



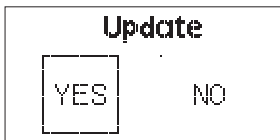
* The factory default language is English.

12) USB Mode

(1) The control box has a built-in USB port for firmware updates (for both the control box and lamp head). Insert a compatible USB* flash drive into the USB port.

(2) To update the light's firmware, press the MENU button to enter the system menu, rotate the dimming wheel to select USB Mode, and press the MENU button again to enter the Update menu. Use the wheel to select "YES" or "NO". If a USB flash drive containing a firmware update is mounted in the USB port, the screen will display an update progress bar**. If you choose "NO", press MENU button then it will return the menu interface.

(3) If a USB flash drive is not inserted into the USB port of the flash drive does not contain a firmware upgrade file, entering the Update menu and choosing "YES" will return you to the system menu interface.



* Only FAT16 and FAT32 storage formats can be used for firmware updates. Incompatible formats will result in the screen displaying a format error and will return to the main menu.

** DO NOT unplug the light or the USB flash drive during the update process. In the case of an unexpected power failure, DO NOT remove the USB flash drive. When the power is restored, the fixture will automatically resume the update process. After successfully updating the firmware, the fixture will automatically restart.

13) OTA Mode

You can also do an OTA wireless firmware update using the Sidus Link mobile app.

3. Remote Control

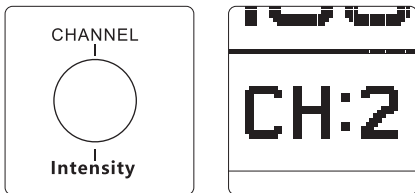
You can control the LS 300x from any channel or group configuration.

* *Light Storm lights have three channels (1/2/3) and four groups (A/B/C/D).*

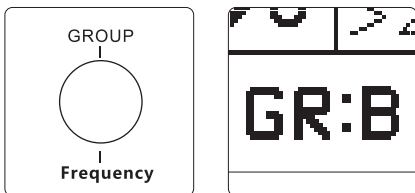
* *Only groups "C" or "D" can be used to control brightness, CCT and lighting effects, while groups "A" and "B" can only be used to control brightness.*

1) Configuring channel and group settings on the control box

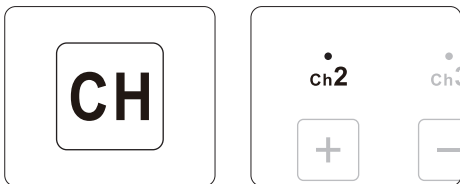
Press the CHANNEL button to toggle between channels 1, 2, & 3.



Press the GROUP button to toggle between groups A, B, C, & D.



2) Configuring channel settings on the remote

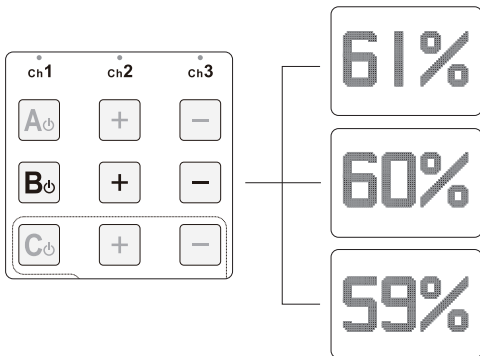


▲
Press the CH button to toggle between channels 1, 2, and 3)

▲
"ch2" indicator lights

3) Adjusting brightness

Press A/B/C/D to toggle the lights on or off, press (**+** / **-**) to adjust the brightness of the light from 0 to 100% accordingly.



** This remote will not work when the light is in DMX mode.*

*** The remote control will only control the operation of the light when the fixture is in 2.4Ghz Wireless Control Mode.*

4) CCT Control

In normal light control mode, press the (**◀** / **▶**) buttons to adjust the light's output CCT.

In FX Mode, press the (**FX** + **◀** / **▶**) buttons to adjust the lights output CCT.

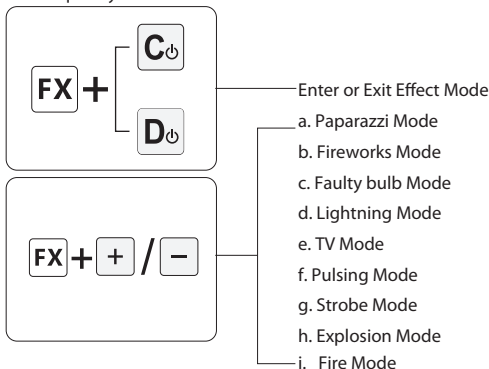
** The remote control can only be used to adjust CCT if the lights are in groups C or D.*

5) FX Control

Press the (FX + C₀/D₀) button to enter or exit lighting effect mode. Press the

(FX + + / -) to toggle between different effects.

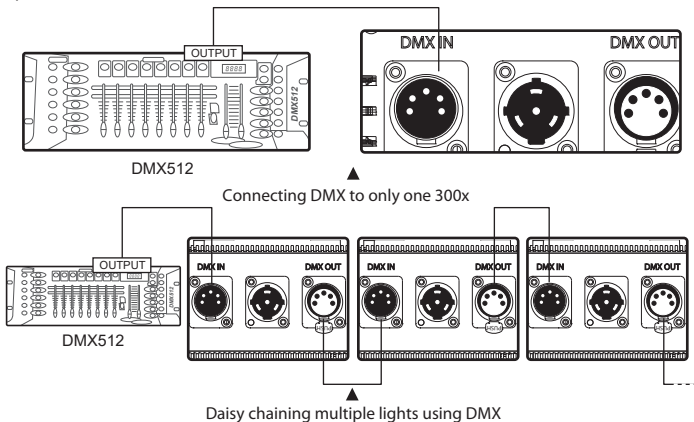
Press the (+ / -) buttons to adjust the output of the light. Press the (◀ / ▶) buttons to toggle the effect frequency.



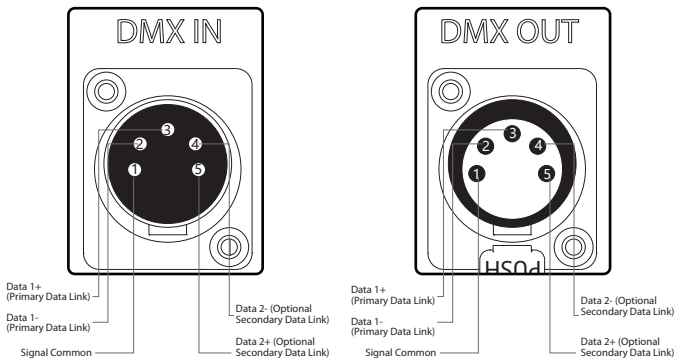
**The remote control can only be used to operate lighting effects if the lights are in groups C or D.*

4. Connecting to DMX

1) Connect a standard DMX controller



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



2) Channel Selection

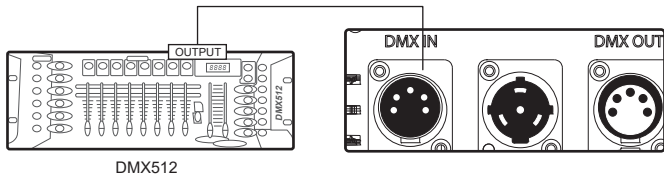
In DMX mode, match the channel of your DMX controller with the light, and then adjust accordingly.

* The default DMX channel is "001".

** The range of DMX channels is 1 to 512.

5. Controlling Device Via DMX

1) Connect the DMX controller's OUTPUT to the 300x's controller INPUT as shown in the figure below.



2) DMX Chart

DMX Channel Values / Functions (6 DMX Channels)		
Channel	Value	Function
1		Dimmer
	0-255	Intensity 0 to 100%
2		CCT Control
	0-5	2700K
	6-10	2800K
	11-15	2900K
	16-20	3000K
	21-25	3100K
	26-30	3200K
	31-35	3300K
	36-40	3400K
	41-45	3500K
	46-50	3600K
	51-55	3700K
	56-60	3800K
	61-65	3900K
	66-70	4000K
	71-75	4100K
	76-80	4200K
	81-85	4300K
86-90	4400K	
91-95	4500K	
96-100	4600K	

2	101-105	4700K
	106-110	4800K
	111-115	4900K
	116-120	5000K
	121-126	5100K
	126-130	5200K
	131-135	5300K
	136-140	5400K
	141-145	5500K
	146-150	5600K
	151-155	5700K
	156-160	5800K
	161-165	5900K
	166-170	6000K
	171-175	6100K
	176-180	6200K
	181-185	6300K
	186-190	6400K
191-195	6500K	
196-255	Undefined	
		Frequency Control
	0-19	1
	20-39	2
	40-59	3
	60-79	4

3	80-99	5
	100-119	6
	120-139	7
	140-159	8
	160-179	9
	180-199	10
	200-219	R
	220-255	Undefined
4		Mode Selection
	0-127	Manual Mode
	128-255	FX Mode
		FX Control
	0-19	Paparazzi
	20-39	Fireworks
	40-59	Faulty Bulb

5	60-79	Lightning
	80-99	TV
	100-119	Pulsing
	120-139	Strobe
	140-159	Explosion
	160-178	Fire
	180-255	Undefined
		IN Lightning mode
6	0	Start Point
	1-127	Single Trigger
	128-255	Cycle Mode
		IN Explosion mode
	0	Start Point
	1-127	Single Trigger
	128-255	Undefined

** In DMX mode, intensity, CCT, FX frequency and lighting effects can only be controlled by a DMX controller.*

*** When controlling multiple 300x lights independently (i.e., A and B), offset each light by 6 channels. If you set light A at DMX 001, set light B at DMX 007, to control A and B separately on the DMX controller.*

6. Using the Sidus Link APP

You can download the Sidus Link app from the iOS App Store or Google Play Store for enhance the functionality of the light. Please visit sidus.link/app/help for more details regarding how to use the app to control your Aputure lights.



Specifications

Operating Current	3.5A	Power Consumption	350W maximum
Power Supply	AC 100~240V 50/60Hz	Cooling Mode	Active Cooling
TLCI	≥96	CQS	≥95
CRI	≥96	Color Temperature	2700K~6500K
Radio Frequency	2.4GHz	Channels	1/2/3
Groups	A/B/C/D	Remote Ability	≤100m
Battery requirement	12V-16.8V ≥15A	APP Control Type	Bluetooth
Sizes (L*W*H)	Light	29.84*21.56*34.45cm / 11.75*8.49*13.56in	
	Controller box Anton Bauer Battery	27.86*12.67*8.73cm / 10.97*4.99*3.44in	
	Controller box (V-Mount)	27.86*12.67*9.67cm / 10.97*4.99*3.81in	

Photometrics

CCT	Distance	1m	3m	5m
3200K	Bare Bulb	474 (fc)	54 (fc)	20 (fc)
		5100 (lux)	580 (lux)	220 (lux)
	Hyper-Reflector	1505 (fc)	121 (fc)	42 (fc)
		16200 (lux)	1300 (lux)	450 (lux)
4300K	Bare Bulb	697 (fc)	74 (fc)	32 (fc)
		7500 (lux)	800 (lux)	350 (lux)
	Hyper-Reflector	2257 (fc)	195 (fc)	65 (fc)
		24300 (lux)	2100 (lux)	700 (lux)
5500K	Bare Bulb	585 (fc)	65 (fc)	23 (fc)
		6300 (lux)	700 (lux)	250 (lux)
	Hyper-Reflector	1904 (fc)	158 (fc)	51 (fc)
		20500 (lux)	1700 (lux)	550 (lux)

** This is an averaged result, the number might be slightly different on each light.*

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.

Aputure®

GUARANTEE CARD

Service Warranty (EN)

Aputure Imaging Industries Co., Ltd. warrants the original consumer purchaser from defects in material and workmanship for a period of one (1) year after the date of purchase. For more details of warranty visit www.aputure.com

Important:

Keep your original sales receipt. Be sure the dealer has written on it the date, serial No. of the product. This information is required for warranty service.

This warranty does not cover:

- Damage that is the result of misuse, abuse, accident (including but not limited to damage by water), faulty connection, defective or maladjusted associated equipment, or the use of the product with equipment for which it was not intended.
- Cosmetic defects that appear more than thirty (30) days after the date of purchase. Cosmetic damage caused by improper handling is also excluded.
- Damage that occurs while the product is being shipped to whoever will service it.

This warranty is void if:

- The product identification or serial No. label is removed or defaced in any way.
- The product is serviced or repaired by any one other than Aputure or an authorized Aputure dealer or service agency.

Aputure Imaging Industries Co., Ltd.

Add: F/3, Building 21, Longjun Industrial estate,
HePing West Road, Shenzhen, Guangdong

E-MAIL: cs@aputure.com

Sales Contact: (86)0755-83285569-613

Serial No.	
Item Name	
Purchase Date	
Buyer Name	
Buyer Phone	
Buyer Add	
Franchiser Seal	

Aputure®

Aputure Imaging Industries Co., Ltd.

Inspection: Qualified

Add: F/3, Building 21, Longjun Industrial Estate, HePing West Road, Shenzhen, Guangdong

Aputure[®]
爱图仕

Light Storm
光 · 风暴

LS 300x
使用者指南

中文

前言

感谢您购买爱图仕“光·风暴”系列LED摄影灯—LS 300x。

爱图仕LS 300x 是一款以LED灯珠为光源的双色温灯具。该灯具集成了300d II所有你喜爱的特性，并且通过升级增加了色温调节功能，它是第一款可以兼容光学附件的双色灯具。

重要的安全说明

使用此摄影灯时，应始终遵循基本的安全预防措施，包括：

1. 使用前阅读并理解所有说明。
2. 当儿童靠近设备或使用设备时，必须进行密切监督。在使用设备时，请勿将设备置于无人看管状态。
3. 必须小心接触高温部件防止被烫伤。
4. 请勿操作电源线损坏的设备以及掉落或损坏的设备，直到合格的维修人员检查过。
5. 请归置好电源线，防止被电源线绊倒或拉扯电源线导致设备断电，且电源线不可接触灼热表面。
6. 如果需要延长线，应使用额定电流至少等于设备额定电流的延长线。额定电流小于设备的电线可能过热。
7. 在清洁和维修之前以及不使用时，务必从电源插座上拔下电器插头。切勿拉扯电线从插座拔出插头，应抓住插头并拉动来拔出。
8. 在存放前让设备完全冷却。存放时，请将电源线从设备上拔出，待冷却后归置在手提包对应位置。
9. 为降低电击风险，请勿将本产品浸入水中或其他液体中。

- 10.为降低电击风险，请勿拆卸本产品，在需要维修时将其交给合格的维修人员。不正确的重装可能会在随后使用设备时引起电击。
- 11.使用非制造商推荐的配件可能会引起火灾、电击或人身伤害。
- 12.请将本产品连接到接地插座。
- 13.使用前请将保护罩取下。
- 14.使用标准罩前将EVA内托取下。
- 15.本产品工作时，请勿遮挡散热孔，勿直视灯珠；
任何情况下勿触摸灯珠。
- 16.勿将本产品置于液体或其他易燃，易挥发溶剂附近，避免损坏产品。
- 17.请用软布、干布清洁本设备。
- 18.请勿在潮湿的环境下使用本设备，否则有短路或电击的危险。
- 19.需要维修时请联系授权的维修人员。本设备内有精密电子线路。未经许可擅自拆卸导致故障不在本司保修范围内，但用户可以付费维修。
- 20.建议使用爱图仕原厂线缆。由于使用非爱图仕原厂附件导致本产品的任何损坏，不在本司保修范围内，但用户可以付费维修。
- 21.本产品已通过RoHS, CE, KC, PSE和FCC认证，请参考相关国家标准使用和操作。因使用操作不当而造成机器损坏，不在保修范围内，但用户可以付费维修。
- 22.此使用者指南依据本公司严格测试制定。设计和规格如有变更，恕不另行通知。



保存这些说明

FCC 符合声明:

此设备符合 FCC 规则第 15 部分中的规范。操作设备须符合以下两个条件:

- (1) 此设备不会导致有害干扰;
- (2) 此设备可承受任何外来干扰, 包括可能导致非预期操作的干扰。

【警告】 如果用户未经爱图仕明确许可而进行改动或改装, 可能会丧失继续操作该设备的权利。

【注】 此设备经测试确定符合 B 类数码设备 (依照 FCC 规则第 15 部分规范) 的限制。这些限制的设计旨在为居住场所安装条件下的有害干扰提供合理的保护。此设备生成、使用并可以发射射频能量。如果未按照指示安装和使用, 可能对无线电通信造成有害干扰。但是, 在特定安装条件下, 不保证这类干扰不会发生。如果此设备确实对无线电或电视机接收信号造成有害干扰, 而这点可以通过关闭和打开设备来确定, 那么建议用户尝试使用以下一种或多种措施来消除干扰:

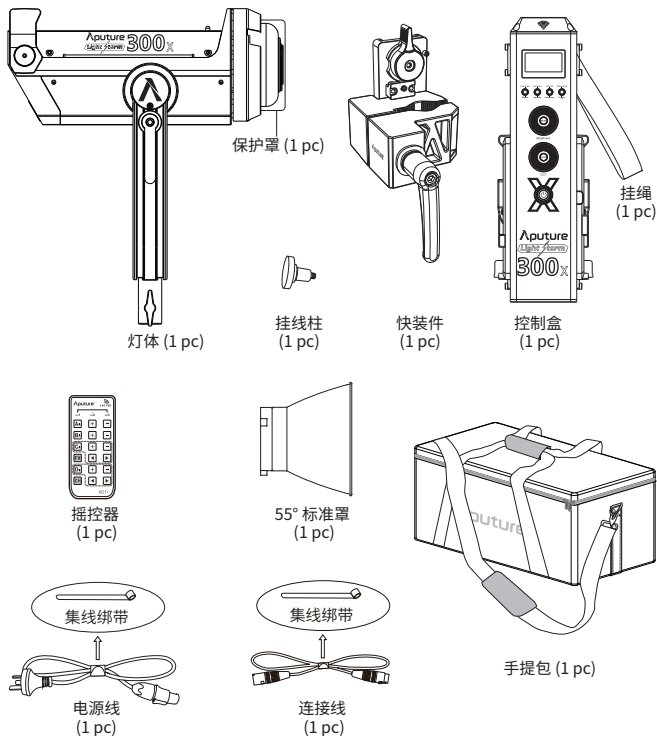
- 扩大设备与接收器之间的距离。
- 将设备连接到其他电路的插座中, 而不是接收器所连接电路的插座。
- 咨询经销商或有经验的无线电/电视机技术人员以获得帮助。

FCC 辐射暴露声明

本设备符合 FCC 针对未受控制环境所制定的辐射暴露限制。

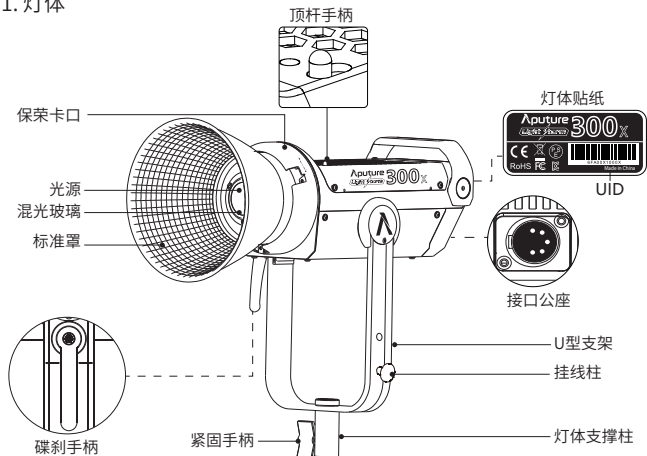
物品清单

使用本产品前，请检查包装内是否包含所有以下物品。如有缺失，请与经销商联系。

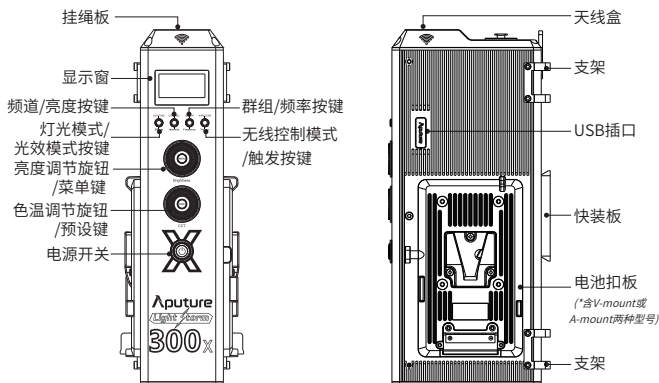


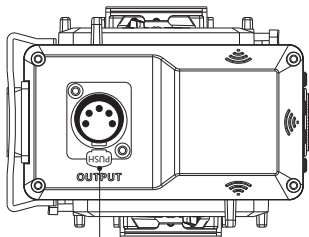
产品视图

1. 灯体

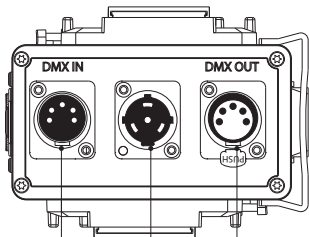


2. 控制盒





控制盒输出接口

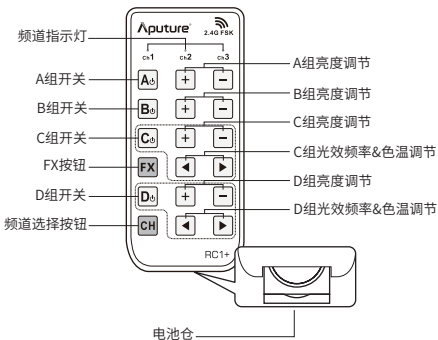


DMX IN
接口

NEUTRIK®
电源接口

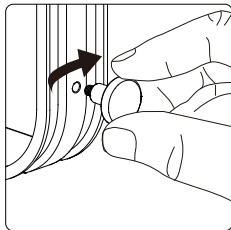
DMX OUT
接口

3. 遥控器



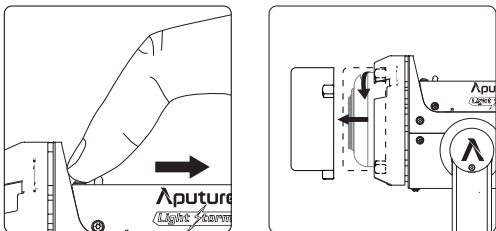
安装

1. 固定挂线柱



2. 保护罩的拆卸与安装

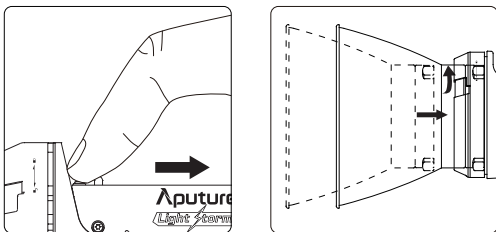
按照图示箭头方向拨顶杆手柄，同时将保护罩旋转拔出。反方向旋转则将保护罩装入。



*使用时, 务必将保护罩拔出, 否则会烧掉。不使用时, 将保护罩装入以保护灯头。

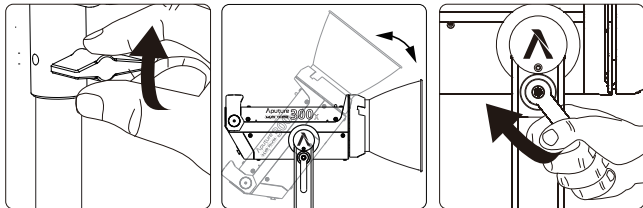
3. 标准罩的安装与拆卸

按照图示箭头方向拨顶杆手柄，同时将标准罩旋转装入。反方向旋转则将标准罩拔出。



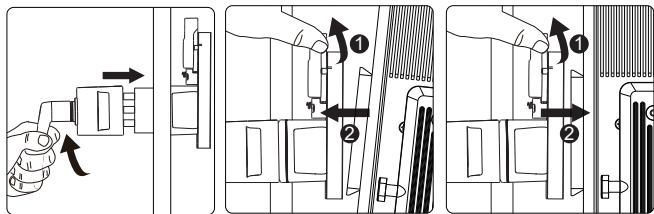
4. 固定灯体

调节灯体到合适角度，旋转紧固手柄安装灯体在三脚架上，再旋转把手固定灯体。



5. 快装件使用说明

- 1) 将快装件装到灯架或支架上；
- 2) 打开快装件旋柄，将控制盒装进快装件（旋钮自动弹回）；
- 3) 打开快装件（必须抓住控制盒，不然会摔落），取下控制盒。

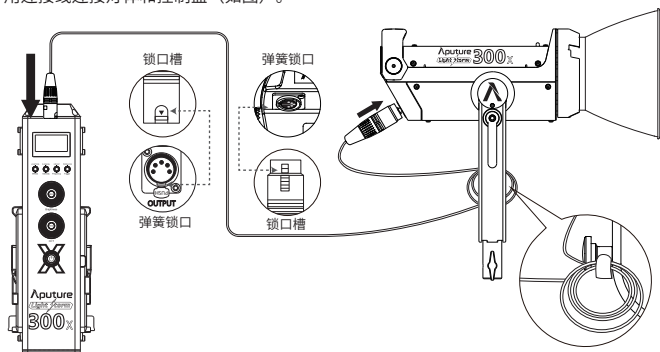


快装件规格

重量	670g / 1.48lbs	尺寸（长X宽X高）	10.35x8.74x12.5cm / 4.07x3.44x4.92in
* 快装件能夹直径2-5cm / 0.79-1.97in的圆管或方管。			

6. 连接灯体和控制盒

用连接线连接灯体和控制盒（如图）。

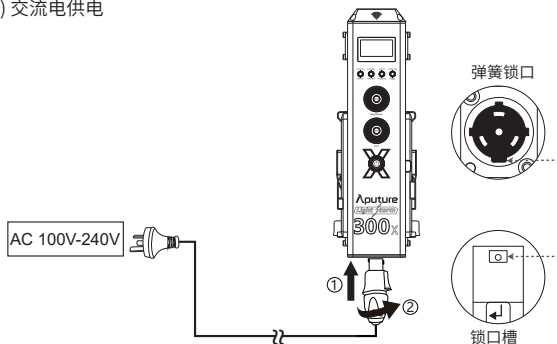


* 您可将绑有连接线的集线绑带系到挂线柱上

* 拆卸连接线时，请压住灯体和控制盒上的弹簧锁口再拆卸，切勿硬拔。

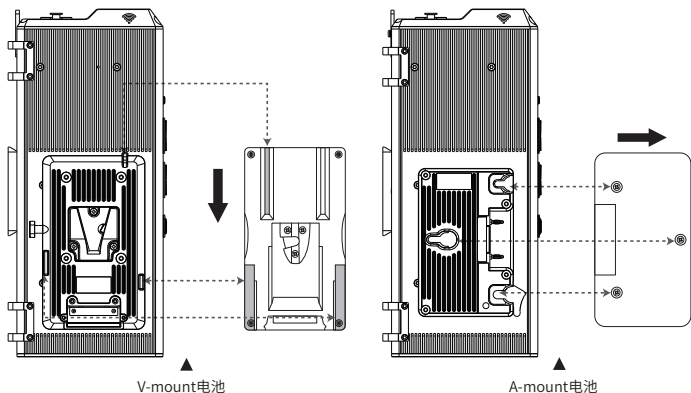
7. 供电

1) 交流电供电



* 拆卸电源线时，请下拉电源线上的弹簧锁口按钮再拆卸，切勿硬拔。

2) 电池供电



* 使用电池进行供电时，必须使用输出电压为12~16.8V，输出电流 $\geq 15A$ 的电池。

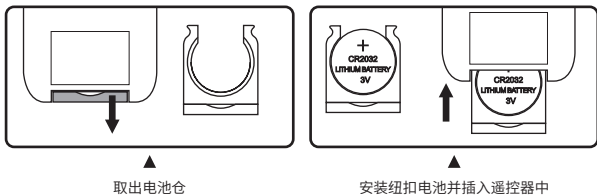
* 单电池供电时，灯的实际输出功率只有双电池供电或AC供电时的一半，且单电池供电，必须使用控制盒右侧的供电接口，使用左侧的接口，单电池无法给灯进行供电。

* 切勿使用26V及更高规格的电池，使用错误的电池供电，会导致灯具损坏。

* 使用输出电流不符合要求的电池进行供电，会导致开灯瞬间，电池进入保护状态，灯具不能正常使用。

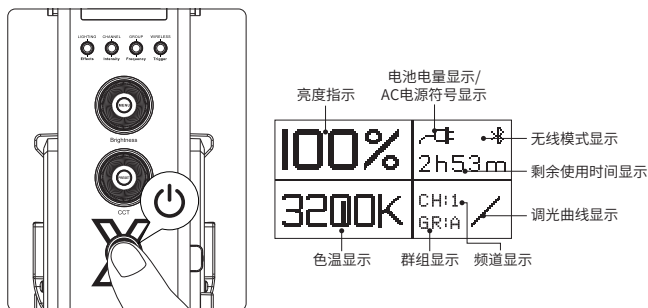
* 适配V-mount和A-mount的电池（非附件），客户可根据需要另行选购电池；

8. 安装纽扣电池到遥控器



操作

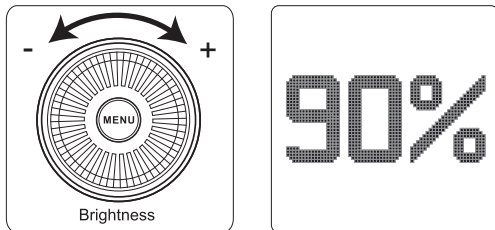
1. 接通电源，打开控制盒电源开关。



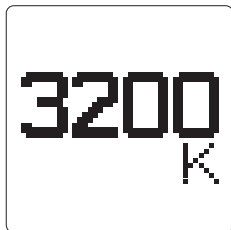
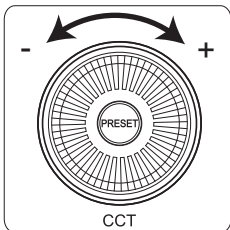
*光·风暴控制盒和遥控器出厂默认频道为“1”，群组为“A”。

2. 控制盒手动控制

1) 旋转亮度调节旋钮来调节亮度，顺时针变强，逆时针变弱。可实现无级调节。



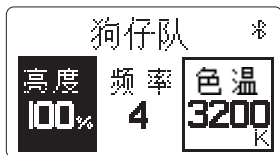
2) 旋转色温调节旋钮来调色温，顺时针变强，逆时针变弱。可实现无级调节。



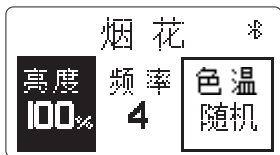
3) 光效调节

长按Effects键2秒进入光效模式，进入光效模式后，再短按Effects键可进行狗仔队/烟花/故障灯/闪电/电视/脉搏/闪光灯/爆炸/火焰九种光效切换。

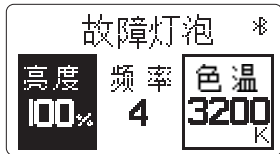
a. 狗仔队模式



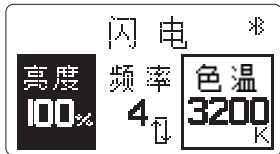
b. 烟花模式



c. 故障灯泡模式



d. 闪电模式



* 色温在烟花光效模式下有3200K, 5600K, 随机几种选择。

* 闪电模式下，需通过Trigger按键触发光效，短按一次Trigger按键触发一次光效，长按Trigger按键进入循环模式。

e. 电视模式



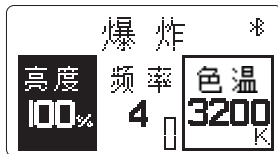
f. 脉搏模式



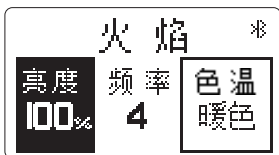
g. 闪光灯模式



h. 爆炸模式



i. 火焰模式



* 色温在电视光效模式下是不能调节具体色温的。

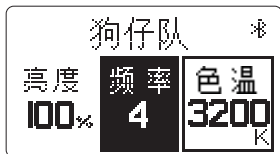
* 爆炸模式下，需通过Trigger按键触发光效，短按一次Trigger按键触发一次光效。

* 色温在火焰光效模式下是不能调节具体色温的。

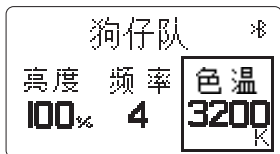
短按Intensity键选择亮度调整，如下图，再调节旋钮改变灯的亮度值，亮度调节范围为10%~100%。



短按Frequency键选择频率调整，如下图，再调节旋钮改变灯的频率值，频率调节范围为1~10，R（随机）。



调节色温旋钮改变灯的色温值，色温调节范围为2700K-6500K。

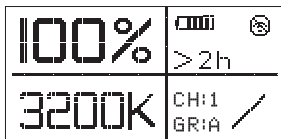
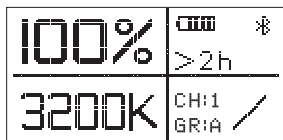
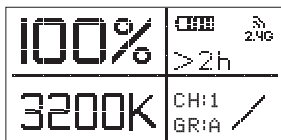


* 某些光效是不能调节具体色温的，比如：烟花、电视、火焰。

* 光效模式下，若突然断电，机器再次上电后，OLED屏显示断电前的界面并根据界面的数值作响应。

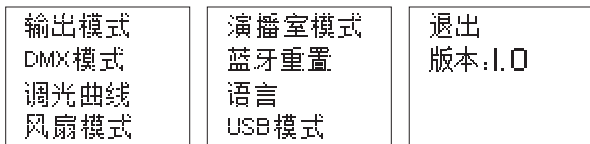
4) 无线模式调节

在常规界面下，短按无线控制模式按键（WIRELESS），选择无线控制模式或关闭无线控制。无线控制模式分：2.4G FSK和蓝牙。



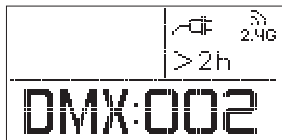
* 用户用手机或平板建立蓝牙连接时设备对应名称为LS 300x *****（六位数字+字母是对应机器的序列号）。

5) 短按MENU键，进入菜单界面，显示如下图

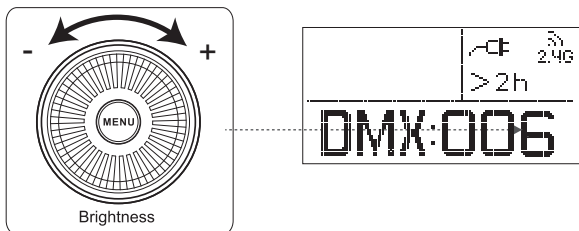


6) DMX模式

按MENU键进入菜单模式，通过亮度调节旋钮，旋至“DMX模式”，再按MENU键即可进入DMX模式。

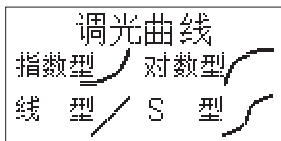


进入DMX模式后，可通过旋钮进行通道的增加及减小操作，顺时针增加，逆时针减小。按MENU键返回菜单界面。



7) 调光曲线调节

按MENU键进入菜单模式，旋转亮度键选择调光曲线，短按MENU键进入调光曲线模式，旋转亮度键选择指数型、对数型、线型、“S”型调光曲线，再短按MENU键确认选择。



8) 风扇模式

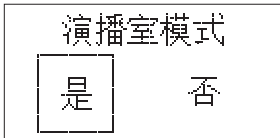
按MENU键进入菜单模式，旋转亮度键选择风扇模式，短按MENU键进入风扇模式，旋转亮度键选择FORCE或AUTO模式，再短按MENU键确认选择。



*选择“FORCE模式”，风扇会以自身最大的转速一直运转，选择“AUTO”模式，风扇达到预设的温度后，才会运转。

9) 演播室模式

按MENU键进入菜单模式，旋转亮度键选择演播厅模式，短按MENU键进入演播式模式菜单，再旋转亮度键选择“是”或“否”，短按MENU键开启或关闭演播室模式。

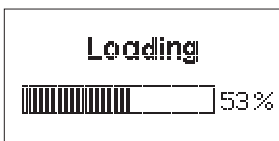
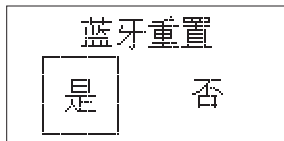


*演播室模式：接通电源后上电直接开机，不需要按开机键。

*演播室模式出厂默认开启状态。

10) 蓝牙重置：

(1) 在蓝牙界面，按MENU键进入菜单模式，旋转亮度键选择蓝牙重置，短按MENU键进入蓝牙重置菜单，再旋转亮度键选“是”，短按MENU键进行蓝牙重置（弹出界面显示当前重置进度，5秒内完成进度显示）；选择“NO”，返回上一级菜单。



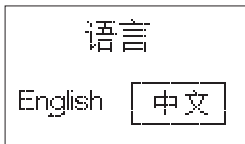
(2) 蓝牙重置成功后，可使用智能终端（手机或平板电脑）与灯进行配对连接，连接成功后，可以对灯进行相关控制。

(3) 蓝牙重置不成功，弹出界面【Reset Failed】，显示2秒后返回蓝牙界面。

*智能终端与灯进行连接，必须安装对应的APP，具体下载方式，请查看我司官网。

11) 语言选择

按MENU键进入菜单模式，旋转亮度键选择Language，短按MENU键进入语言菜单，旋转亮度键选择English或中文，再短按MENU键确认选择。



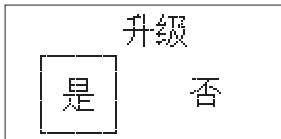
* 出厂默认为英文界面。

12) USB模式

(1) 控制盒配USB接口，使用U盘进行升级（完成灯控和灯体升级）。“将兼容的USB*闪存驱动器插入USB端口。”

(2) U盘接入USB接口且U盘内存在升级文件，按MENU键进入菜单模式，旋转亮度键选择升级，短按MENU键进入升级菜单。旋转亮度键选择“是”，再短按MENU确认升级，OLED显示屏出现升级进度条，随着升级情况显示相应进度。旋转亮度键选择“否”，再短按MENU则返回主界面。

(3) U盘未插入USB接口或U盘插入USB接口但U盘内无升级文件，进入升级菜单按升级确认键时，返回主菜单界面，不做其他处理。



* 使用U盘进行升级时，必须使用存储格式为FAT16或FAT32的U盘，使用其它格式的U盘，无法完成升级操作，且主界面上会显示格式错误，并自动返回主界面。

* 升级过程中，请勿断电、插拔U盘，若升级过程中，出现意外断电，请勿取走U盘，待重新上电后，灯具会自动进行升级操作，升级成功后，灯具会自动关灯，并重新开灯。

13) OTA 模式

固件升级可以通过Sidus Link app进行OTA在线升级更新。

3. 遥控器远程遥控

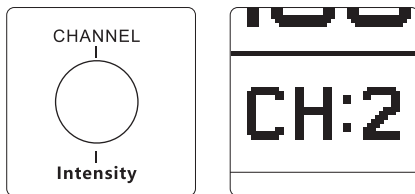
设置遥控频道为2，群组为B时，控制亮度可按如下操作：

* 光·风暴控制盒和遥控器分1、2、3三个频道和A、B、C、D四个群组。

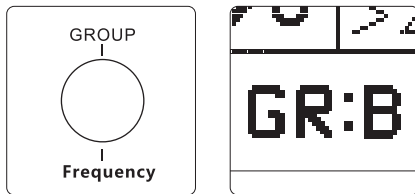
* A、B只能控制亮度，C、D控制亮度、色温和光效的选择。

1) 设置控制盒

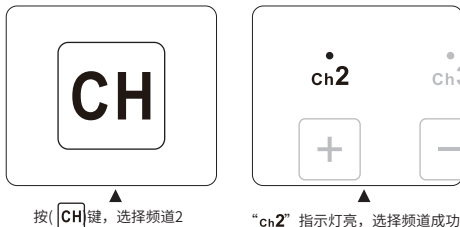
按下频道设置按钮，选择频道2，显示如下图。



按下群组设置按钮，选择群组B，显示如下图。

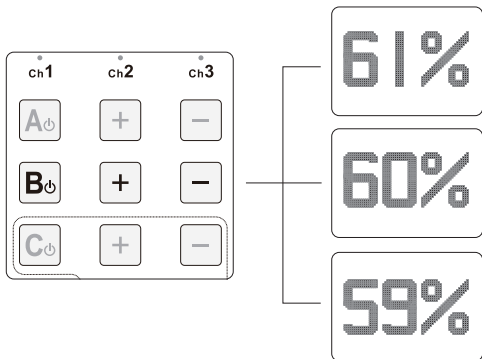


2) 遥控器设置和显示



3) 亮度调节

按遥控器B组的(+) / (-)按键调节亮度，亮度以1%的变量均匀变化。亮度可调节范围为0~100%。



* DMX、DMX光效模式下，不可以进行遥控操作。

* 使用遥控器进行调节操作，必须切换至2.4G模式，否则操作无效。

4) CCT控制

常规模式下，按遥控器的(◀ / ▶) 按键来控制色温的变化

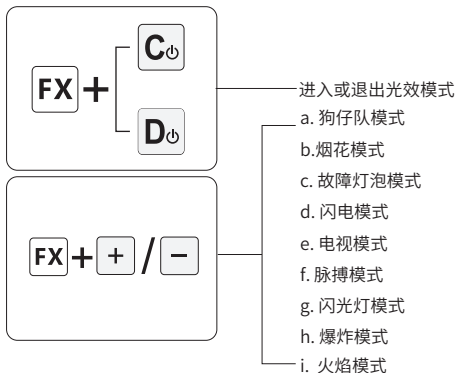
光效模式下，按遥控器的(FX + ◀ / ▶) 按键来调节色温的变化。

* 遥控器只能在灯处于C或D组时用于控制色温。

5) 光效控制

按遥控器的(FX+ C₀/D₀)按键进入或退出光效模式,按(FX+ + / -)切换光效模式。

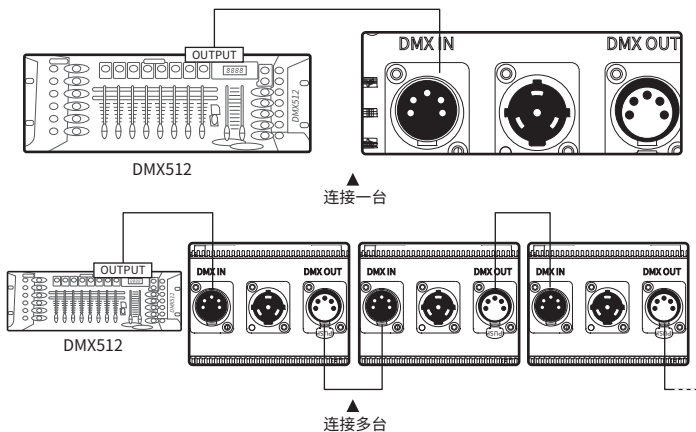
按遥控器的(+ / -)控制光效的亮度,按(◀ / ▶)控制光效的频率。



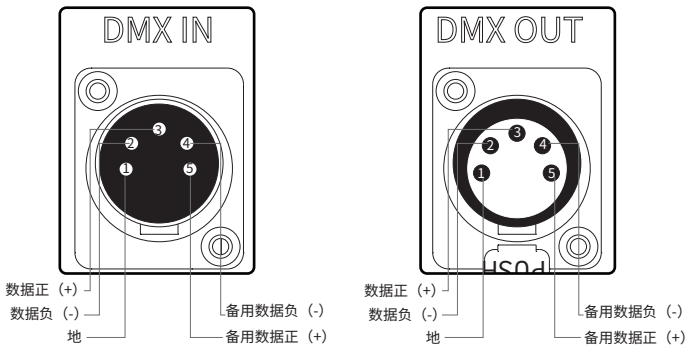
* 遥控器只能在灯处于C或D组时用于控制光效。

4. DMX控制台控制

1) 连接DMX标准控制台与光·风暴LS 300x



*DMX接口定义如图所示:



2) 频道选择

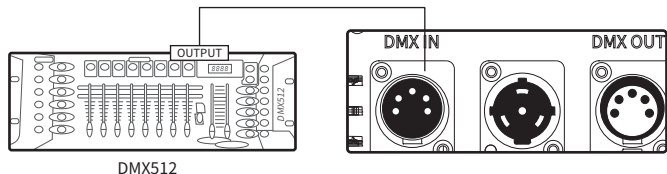
DMX控制台通道数与控制盒DMX通道数保持一致时, 可使用控制台进行亮度调节操作。
适用于单台或多台连接方式。

*光·风暴在DMX模式下, 控制通道号出厂默认值为1。

*光·风暴在DMX模式下, LS 300x可设置通道范围为1-512。

5. DMX控制操作

1) DMX控制台与控制盒连接, 见下图所示



2) DMX 实用表

DMX 频道数值-功能对应表 (6个频道)		
频道	数值	功能
1		亮度调节
	0-255	亮度0-100%
2		色温控制
	0-5	2700K
	6-10	2800K
	11-15	2900K
	16-20	3000K
	21-25	3100K
	26-30	3200K
	31-35	3300K
	36-40	3400K
	41-45	3500K
	46-50	3600K
	51-55	3700K
	56-60	3800K
	61-65	3900K
	66-70	4000K
	71-75	4100K
	76-80	4200K
	81-85	4300K
	86-90	4400K
	91-95	4500K
96-100	4600K	
2	101-105	4700K
	106-110	4800K
	111-115	4900K
	116-120	5000K
	121-126	5100K
	126-130	5200K
	131-135	5300K
	136-140	5400K
	141-145	5500K
	146-150	5600K
	151-155	5700K
	156-160	5800K
	161-165	5900K
	166-170	6000K
	171-175	6100K
	176-180	6200K
	181-185	6300K
186-190	6400K	
191-195	6500K	
196-255	备用	
		频率控制
	0-19	1
	20-39	2
	40-59	3
	60-79	4

3	80-99	5
	100-119	6
	120-139	7
	140-159	8
	160-179	9
	180-199	10
	200-219	R
	220-255	备用
4		模式选择
	0-127	常规模式
	128-255	光效模式
		光效控制
	0-19	狗仔队
	20-39	烟花
	40-59	故障灯

5	60-79	闪电
	80-99	电视
	100-119	脉搏
	120-139	闪光灯
	140-159	爆炸
	160-178	火焰
	180-255	备用
		闪电模式
6	0	起始点
	1-127	单次触发
	128-255	循环触发
		爆炸模式
	0	起始点
	1-127	单次触发
	128-255	备用

* 进入DMX光效模式后，只能通过DMX控制台进行亮度、色温、频率及光效调节。

* 当独立控制多个300x灯（即A和B）时，将每个灯偏移6个通道。如果将灯A设置为DM001，则将灯B设置为DM007，以便在DMX控制器上分别控制A和B。

6. Sidus Link APP 的使用

您可以从iOS应用程序商店或Google Play商店下载Sidus Link应用程序，以增强Light的功能。更多详细使用方法请访问：sidus.link/app/help。



规格

工作电流	3.5A	功耗(Max)	350W(最大)
工作电压	AC 100~240V 50/60Hz	散热方式	主动散热
TLCI	≥96	CQS	≥95
CRI	≥96	色温	2700K~6500K
工作频率	2.4GHz	频道	1/2/3
群组	A/B/C/D	控制距离	≤100m
锂电池要求	12V-16.8V ≥15A	APP控制方式	蓝牙
尺寸 (长X宽X高)	灯体	29.84*21.56*34.45cm / 11.75*8.49*13.56in	
	控制盒 (A-mount)	27.86*12.67*8.73cm / 10.97*4.99*3.44in	
	控制盒 (V-mount)	27.86*12.67*9.67cm / 10.97*4.99*3.81in	

亮度测试数据

CCT	距离	1m	3m	5m
3200K	裸光源	474 (fc)	54 (fc)	20 (fc)
		5100 (lux)	580 (lux)	220 (lux)
	标准罩	1505 (fc)	121 (fc)	42 (fc)
		16200 (lux)	1300 (lux)	450 (lux)
4300K	裸光源	697 (fc)	74 (fc)	32 (fc)
		7500 (lux)	800 (lux)	350 (lux)
	标准罩	2257 (fc)	195 (fc)	65 (fc)
		24300 (lux)	2100 (lux)	700 (lux)
5500K	裸光源	585 (fc)	65 (fc)	23 (fc)
		6300 (lux)	700 (lux)	250 (lux)
	标准罩	1904 (fc)	158 (fc)	51 (fc)
		20500 (lux)	1700 (lux)	550 (lux)

* 亮度数据为平均数据，不同灯的亮度会有微小差异。

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