



**LISHUAI FILM &
TELEVISION EQUIPMENT**



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FOCUS 600D/X

USER MANUAL

YUYAO LISHUAI FILM & TELEVISION EQUIPMENT CO., LTD

1600D/600X

Characteristics:

1. 600D, 600X feature high-power COB LEDs with a lifespan of up to 50,000 hours. These LEDs have a standard color temperature with a CRI & TLCI ≥ 95 and feature less than 2% illumination decay less over 6000 hours working time.
2. Built-in NTC temperature detection to automatically control the fan and prevent overheating to ensure a long product life.
3. Dimmable 0-100% and flicker-free due to the PWM integrated design.
4. 11 pre-installed special effect modes, to help you create the perfect scene. In each mode, brightness and color temperature are adjustable. And for 600X, the speed is adjustable as well.
5. Optional battery power via V-lock battery mounts on control box.
6. Software updates via USB.
7. Available control option: control box, DMX console, remote control or mobile phone APP.
8. Use any Bowers mount accessory, such as the included customs designed standard reflector.
9. Solid aluminum shell provides durability and enhanced heat dissipation for a long product life.
10. 360° adjustable, all metal U-bracket featuring disc brake locking function for safely mounting and achieving any angle needed.
11. LED heat prevention technology ensures that your light will emit steady and accurate light under varying conditions.
12. The LCD displays real-time data for color temperature and brightness.
13. Suitable for indoor and outdoor photography and videography. Great for studio and location shoots including TV, film, portrait photography and more.

Warnings:

1. ALWAYS remove the protective cover before using your light.
2. ALWAYS press accessory lock button on the bottom of the light when removing accessories such as the standard reflector, barn doors or optional zoom lens. Failure to do so may damage your light.
3. During use, avoid dirt or debris from contacting the surface of the COB LED to prevent damage to the light.
4. HOT! DO NOT TOUCH! Keep flammable substance at least 4 inches (100mm) away from the surface of the LED.
5. Do not block the heat dissipation vents on light body. Blocking these will inhibit airflow, causing the unit to overheat and stop working. This may shorten the lifespan of the light.
6. Do not operate with wet hands, doing so may cause electric shock.
7. Do not operate in environments near flammable gases or volatile liquids as this may increase the risk of explosion/fire.
8. Do not operate in enclosed spaces where heat buildup can be extreme, such as a car on a sunny day. The increased heat will trigger the auto heat protection function and affect use. Frequent overheating may cause premature failure of the light unit.
9. Do not damage, disassemble, twist or modify the power cord as it may increase the risk of fire or electric shock.
10. Do not place under heavy objects.
11. Keep the light surface clean with a soft, dry cloth. If build-up is noticeable, use isopropyl alcohol on a soft, clean cloth to gently remove debris. Ensure the LED is off and cool, then wipe gently WITHOUT pressing on the surface of the COB LED.
12. ONLY use the power control box provided with this product. Should you need a replacement, please contact us.
13. Avoid impact to the LCD screen; impact may damage it.
14. Use the safety cable when hanging the fixture.
15. When using the accessories, please ensure that they are properly and securely installed. Improperly installed accessories may fall and become damaged.

Packing List:



600D/600X

- | | | |
|---------------------------|--------------------------|----------------------------|
| ① 600D/600X - 1PC | ② Protective cover - 1PC | ③ Standard reflector - 1PC |
| ④ Power control box - 1PC | ⑤ DMX cable - 1PC | ⑥ Connecting cable - 1PC |
| ⑦ AC Power cable - 1PC | ⑧ Safety cable - 1PC | ⑨ Custom fit case - 1PC |

Optional accessories:



Deep Parabolic Softbox



Lantern Softbox

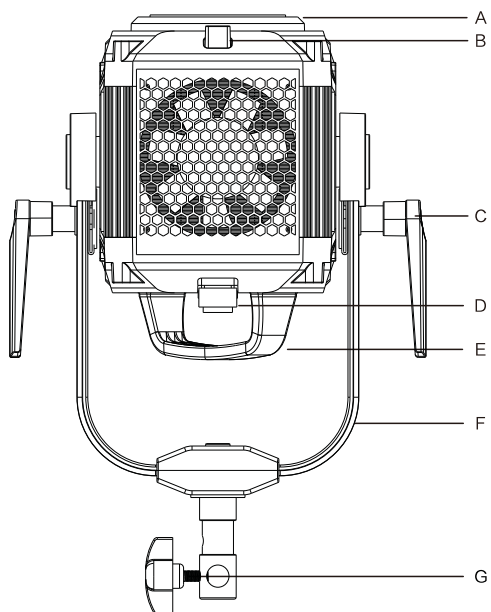


Spotlight mount



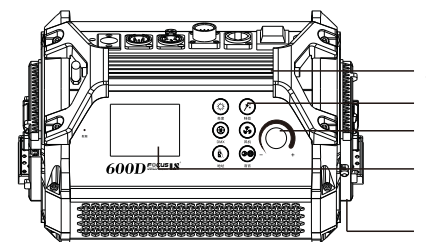
Remote control

Parts Diagram(light) :

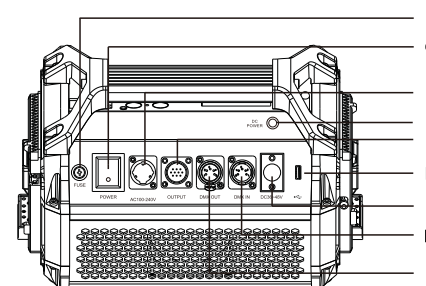


- Ⓐ Bowen mount
- Ⓑ Bowens mount accessory lock button
- Ⓒ Angle adjustment & locking handle
- Ⓓ DC power input socket
- Ⓔ Integrated carrying handle
- Ⓕ U-type bracket
- Ⓖ Stand mount locking screw

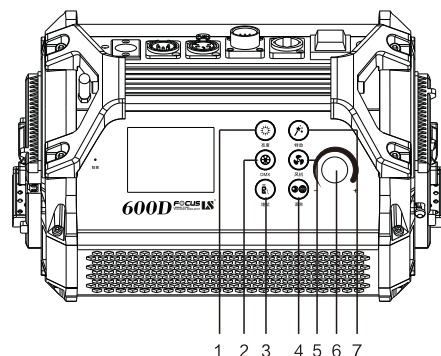
Parts Diagram(power control box):



- Ⓐ Power control box handle
- Ⓑ Menu buttons
- Ⓒ Multi-function interface dial/button
- Ⓓ LCD screen
- Ⓔ V-lock battery plate
- Ⓕ Fuse
- Ⓖ Power button
- Ⓗ AC Power input socket
- Ⓛ DC power
- Ⓜ DC output socket
- Ⓚ USB port
- Ⓛ DC input socket (DC36-48V)
- Ⓜ DMX IN socket
- Ⓝ DMX OUT socket



Menu buttons on the power control box:



- ① INT(brightness) button (600D)
CCT (Color temperature) button (600X)
- ② DMX button
- ③ Addr. Settings (Address setting) button
- ④ Lang.(Language) button
- ⑤ Fan button
- ⑥ Multi-function interface dial/button
- ⑦ FX (Special effect) button

Specifications:

Spec	Model	600D	600X
LED		600W COB	300W daylight+300W tungsten
Beam angle		120°	
CRI		Ra:96-98	
Color temperature		5600K ± 300K	2700K ± 200K-6500K ± 300K
TLCI		≥96	≥95
Power		600W	2700K:304W/3200K:362W/4400K:506W/5600K:351W/6500K:295W
Working voltage		AC100-240V , DC36-48V	
Cooling system		Heat pipe radiator , Temperature controlled fan	
Dimension (light body)		10.4 x 12.1 x 16.8" (263x307x426MM)	
Dimension (power control box)		12.8 x 7.3 x 8.3" (325x185x212MM)	
Weight		Light body: 12.1 lb (5.49kg), Power control box: 11 lb (5kg)	Light body: 12.1 lb (5.49kg), Power control box: 8.5 lb (3.85kg)
Included accessories		Standard reflector, Protective cover, Power cable, DMX cable, Connecting cable, Safety cable, Custom carrying case	
Optional accessories		Light modifiers with Bowens mount, Remote control	

600D illuminance:

Distance	Light without reflector	Light with standard reflector
1M	21481 LUX	> 300000LUX
2M	5672 LUX	50545 LUX
5M	1124 LUX	6094 LUX
10M	317 LUX	1492 LUX

600X illuminance without reflector :

Color temperature Distance Illuminance	2700K	3200K	4400K	5600K	6500K
1m	7162Lux	9103Lux	14005Lux	10729Lux	9077Lux
2m	1929Lux	2467Lux	3713Lux	2910Lux	2461Lux
5m	378Lux	485Lux	735Lux	568Lux	481Lux
10m	108Lux	137Lux	206Lux	162Lux	139Lux

600X illuminance with standard reflector 15° :

Color temperature Distance Illuminance	2700K	3200K	4400K	5600K	6500K
1m	110100Lux	143500Lux	204300Lux	172000Lux	133400Lux
2m	15754Lux	21256Lux	31444Lux	25475Lux	21204Lux
5m	1985Lux	2577Lux	3915Lux	3096Lux	2685Lux
10m	486Lux	623Lux	952Lux	756Lux	651Lux

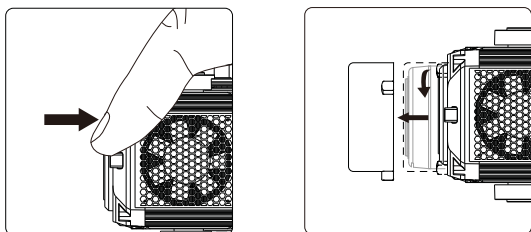
Set up instructions:

1. Removal and installation of protective cover

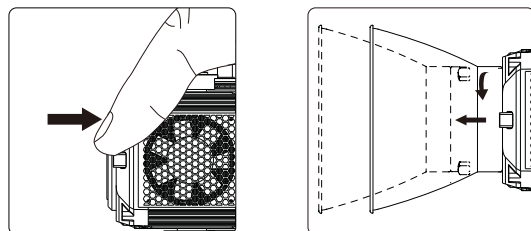
Press the Bowens mount accessory lock button of the light in the direction of the arrow shown in the figure, and at the same time turn the protective cover / standard reflector counterclockwise and pull it out, and turn it clockwise if you want to install the protective cover / standard reflector.

NOTE: ALWAYS remove the protective cover before using your light.

When the light is not in use, install the protective cover to protect the light from dirt or debris.



2. Installation and removal of the standard reflector:

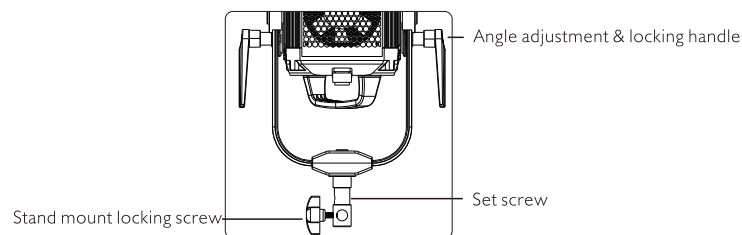


3. How to set up the light

(1) To mount on light support or stud: Loosen the stand mount locking screw by turning counterclockwise. Place the mount on the light stand and secure the screw by turning clockwise. Please ensure the light stand is fully mounted onto the light support and the screw is securely fastened.

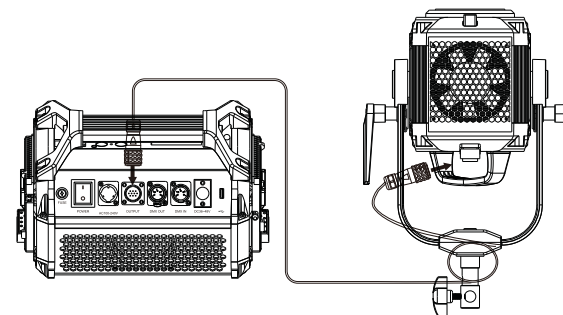
(2) When mounting to a 1 1/8" (junior) stud, it will be necessary to remove the set screw using an M4 hex wrench.

(3) Adjust the light to the desired angle by loosening the angle adjustment and locking handle by turning counterclockwise. Move the light to the desired position, then tighten the angle adjustment and locking handle by turning clockwise.



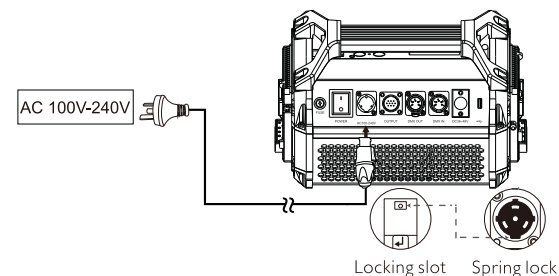
4. How to set up the power control box

(1) Use the connecting cable to connect the light body to the power control box, align the red dots on the plug and socket, and then insert the plug to the socket. To unplug, pull up the collar of the connector to release its locking mechanism and disconnect it.

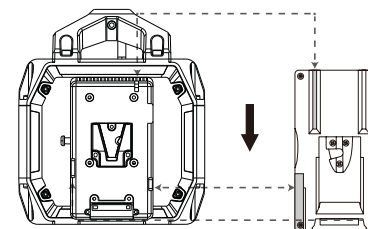


(2) Connect the AC power cable to the power control box via the AC power socket, align it with the locking slot as shown in the figure below, and then insert the power plug.

Connect the AC power cable to the external power supply (AC 100-240V). To remove the AC power cable, press down the spring lock and turn counterclockwise, and then pull it out.

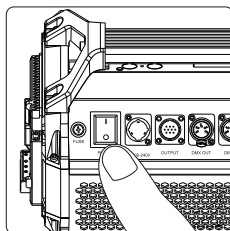


NOTE: Remove batteries when using external AC power. Leaving batteries installed may cause damage to the control box or batteries. ALWAYS remove batteries when the light is not in use for extended periods of time.



Operating instructions:

1. Press the power button to power the light ON or OFF.

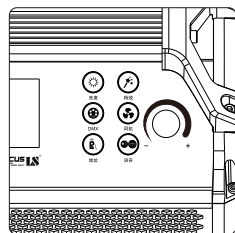


2. Control via power control box

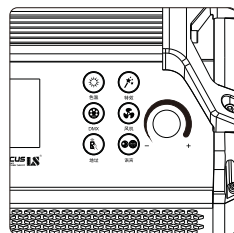
(1) Menu buttons introductions

600D menu buttons : INT(Brightness) button, FX button, Fan button, Addr. (Address) setting button, Lang.(language) button and Multi-function interface dial/button.

600X menu buttons: Color temperature button, FX button, Fan button, Address setting button, Language button and Multi-function interface dial/button.



(600D)

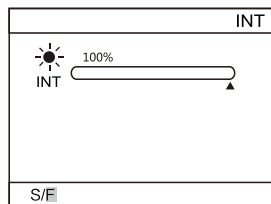


(600X)

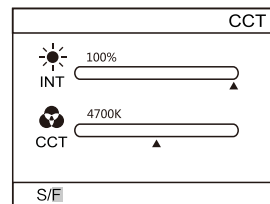
(2) Intensity (Brightness) and Color temperature button operation

600D: Press the intensity button, then turn the multi-function interface dial to increase or decrease the brightness of the light. Brightness is adjustable from 0-100%.

600X: Press the Color temperature button, then press the multi-function interface button to switch between the brightness and color temperature, turn the multi-function interface dial to adjust the brightness between 0-100%, and the color temperature between 2700K-6500K.



(600D)

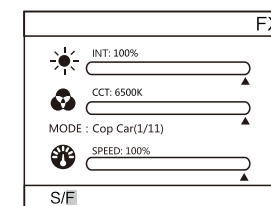
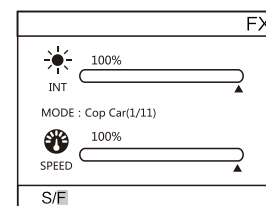


(600X)

(3) FX button (Special effect button)

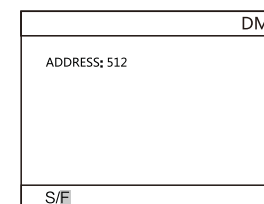
600D: Press the FX button, then press the multi-function interface button to switch between INT(brightness), mode and speed. Turn the multi-functional interface dial to control the brightness 0-100% , special effect and speed. The special effect mode includes lightning, fireworks, flash, breath, cop car, SOS, fault bulb, turn signal, tracing, screen, H&L beam.

600X: Press the FX button, then press the multi-function interface button to switch between brightness, color temperature, mode and speed 0-100%. Turn the multi-functional interface dial to control the brightness 0-100% , color temperature 2700K-6500K, special effect and speed 0-100%. The special effect mode includes lightning, fireworks, flash, breath, cop car, SOS, fault bulb, turn signal, tracing, screen, H&L beam.



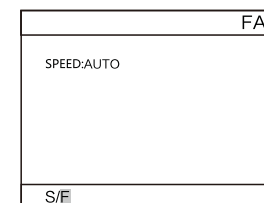
(4) DMX button

Press the DMX button, turn the multi-function interface dial to change the address of the fixture. DMX address range is 1-512.



(5) Fan button

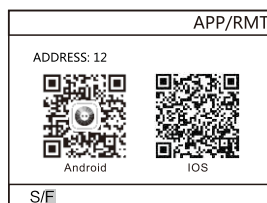
Press the fan button, turn the multi-function interface dial to change the speed of the fan among low, medium, high and auto.



(6)Addr.(Address) setting button

Press the addr. setting button, turn the multi-function interface dial to change APP/remote address between 1-12.

Noted:RMT-OFF means that the remote control function can not be used.



(7)Language button

Press language button, turn the multi-function interface dial to switch system language between English and Chinese.



(8)Fast and slow adjustments

Press the multi-function interface button for 5 seconds or longer to switch between fast and slow adjustments. The indicator at the bottom of the LCD will change between fast and slow to indicate which adjustment mode is active.

3.Use of Lishuai mobile phone APP

Please search "Lishuai " on the App store, or you can scan the below QR codes to download the APP for the Android and IOS mobile phone.



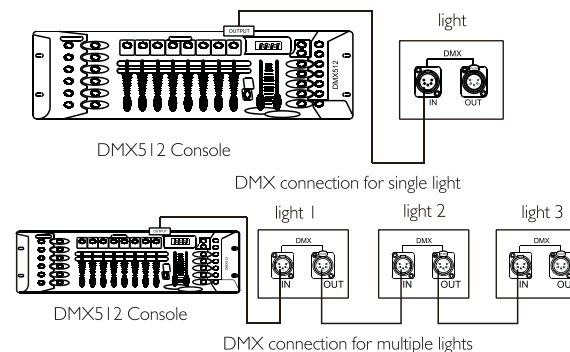
Android



IOS

4.DMX connection

When using DMX function, connect the DMX cable to the DMX console (see the figure below). Set the DMX address to desired address for control on the DMX console.

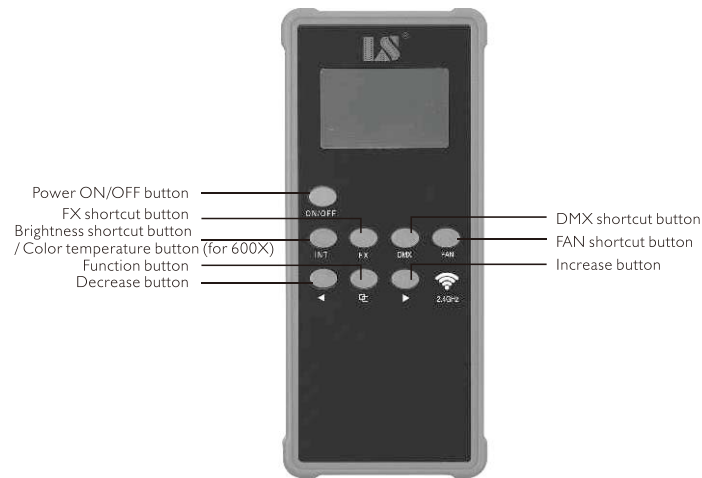


5.DMX control:

Please see below details of DMX address on LCD and corresponding channels on DMX console.

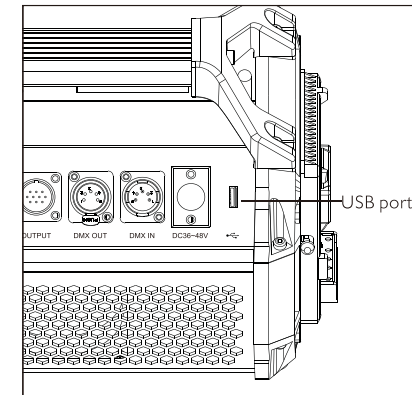
LCD display address	DMX console channels (single color temperature)	DMX console channels (Bi-color temperature)
1	1-1(Brightness)	1-1(brightness),1-2(color temperature)
2	1-2(Brightness)	1-2(brightness),1-3(color temperature)
.....		
16	1-16(Brightness)	1-16(brightness),2-1(color temperature)
17	2-1(Brightness)	2-1(brightness),2-2(color temperature)
.....		
511	32-15(Brightness)	32-15(brightness),32-16(color temperature)
512	32-16(Brightness)	

6. Remote control operating instructions:



- (1) Set the wireless receiving address of the light by following the instructions for APP/remote Address mode. The address can be set from 1 - 12.
- (2) Press the Function button to select the first line on the LCD. Move the cursor to the Address setting. Use the Increase button or Decrease button to set the address between 1 - 12.
- (3) Ensure that the APP/Remote Address setting on the light and the Address setting on the remote control are the same. The light/lights with the same address setting can now be controlled normally with the remote control.
- (4) When pressing the Function button, the first line on the LCD is selected. Switch between INT(brightness), FX, DMX setting, Fan, APP/Remote and Lang.(language) modes by using the Increase/Decrease buttons to change the corresponding data.
- (5) The wireless remote control has a working distance of approximately 65 feet (20 meters)

7. USB port operation:



When the device requires a software upgrade, the upgrade can be applied by connecting a USB flash drive through the USB port. Software upgrades can be found on www.lishuai-lighting.com

Upgrade Operation:

- (1) Download the updates from www.lishuai-lighting.com and save to USB flash drive.
- (2) Remove the dustproof plug from the USB port and insert the USB flash drive loaded with the upgrade program.
- (3) Press the Power ON/OFF button to turn the power ON. The DATA indication light will flash.
- (4) The upgrade will take approximately 10 seconds. The upgrade is complete when the product information appears on the LCD.
- (5) When the upgrade is complete, remove the USB flash drive and replace the dustproof plug.

8. Bluetooth available, 2.4G TX wireless control function.

Warranty: LED lights are guaranteed for 1 years.

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20 cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.