

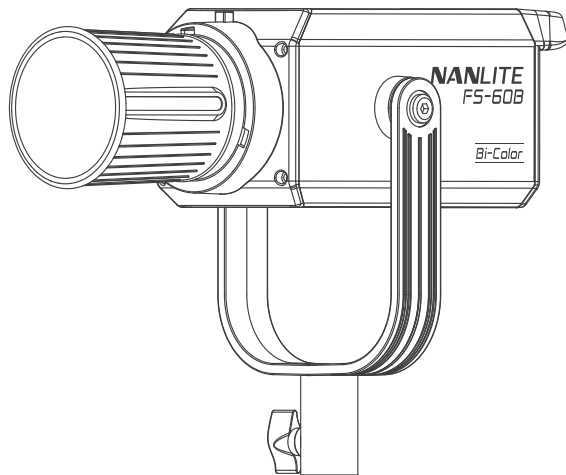
NANLITE

FS-60B
USER MANUAL

Guangdong NanGuang Photo&Video Systems Co., Ltd

FS-60B LED Bi-color Spot Light

■ Product Diagram



■ Technical Data

Rated Power: 70W

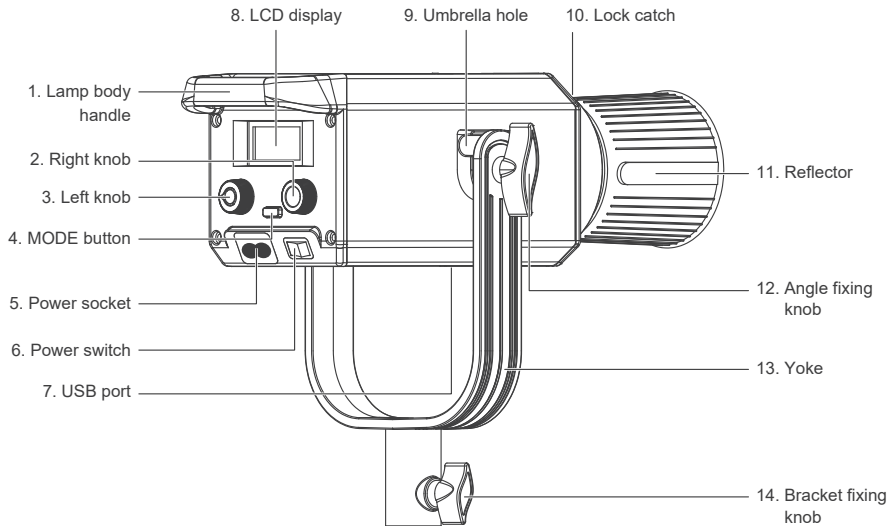
Input voltage/current: AC100-240V
50/60Hz

Color Temperature: 2700K-6500K

CRI: Average 96

TLCI: Average 97

Product Details

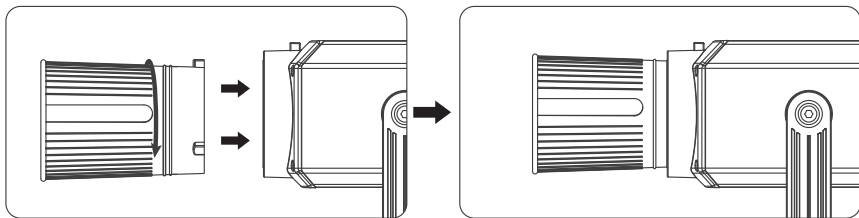


Detailed Description

1. Lamp body handle: Be convenient for users to lift the lamps and adjust the direction of the light.
2. Right knob: For selecting options and adjusting the color temperature under CCT mode.
3. Left knob: For adjusting the DIM and scrolling through different selections.
4. MODE button: For switching between CCT mode, EFFECT mode and MENU.
5. Power socket: AC power input socket.
6. Power switch: For switching on/off the fixture.
7. USB port: For updating the firmware.
8. LCD display : For displaying the data.
9. Umbrella hole: For installing/removing an umbrella.
10. Lock catch: For installing and disassembling reflector and other accessories.
11. Reflector: For gathering light to improve the central illumination.
12. Angle fixing knob: Allows for adjusting and fixing the direction of light in tilt.
13. Yoke: Designed for connecting the lamp to the light stand and adjusting the direction of light.
14. Bracket fixing knob: For locking the light fixture and stand, and adjusting the horizontal direction of light.

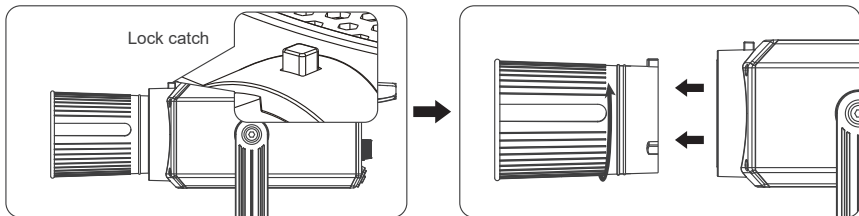
Usage

1. Installation of the Reflector



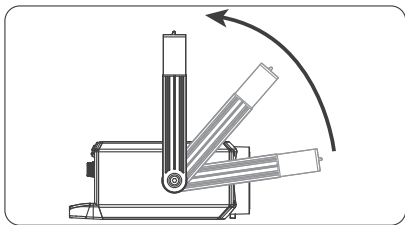
① When installing the reflector, ensure its mounting points align with the slots on the light fixture. When the mounting points and slots are aligned, push the reflector in place and rotate it in the direction shown on the light until it clicks into place.

Note: This light is with FM mount, so please use accessories with FM mount. If the accessories with Bowens mount are needed, please mount after installing the Bowens mount adapter.

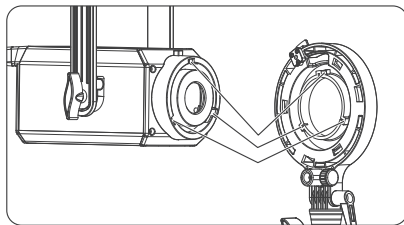


② When removing the reflector, push and hold the lock catch and rotate until the reflector is free to be removed from the fixture.

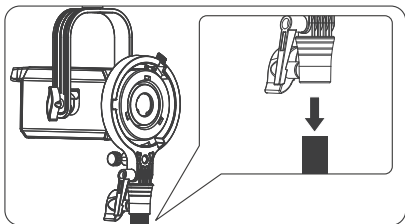
2. Installation of Bowens Mount Adapter



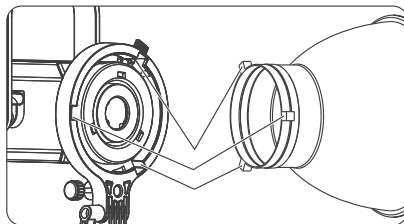
① Adjust the yoke to the top position before installation.



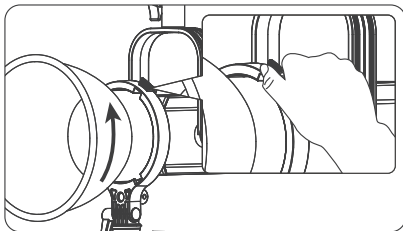
② When installing the adapter, ensure its mounting points align with the slots on the light fixture, rotate it according to the direction shown on the light until the adapter is put into place.



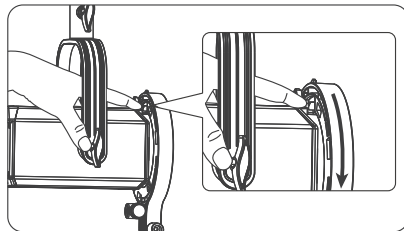
③ Mount the adapter on the light stand.



④ Ensure the Bowens mount accessories align with the slots of the Bowens mount adapter, rotate it according to the direction shown on the adapter until the accessories are put into place.

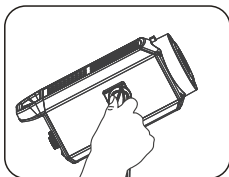


⑤ When removing the accessory, push and hold the release button and rotate according to the direction shown on the adapter until the accessory is free to be removed from the adapter.

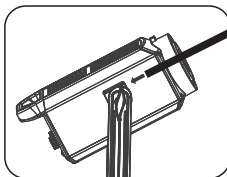


⑥ When removing the adapter, push and hold the release button and rotate according to the direction shown on the light until the adapter is free to be removed from the light.

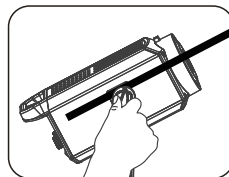
3. Installation of an Umbrella



Loosen the angle fixing knob.



Put the umbrella into the umbrella hole.



Tighten the angle fixing knob to lock the umbrella in place.

4. 2.4G and Bluetooth Remote Control

The FS-60B is able to be remotely controlled by 2.4G remote controller or by NANLINK APP via the WS-TB-1 transmitter box, and has built-in Bluetooth.

Note: ①2.4G remote controller and transmitter box are sold separately.

②The fixture supports the 2.4G wireless protocol V1.0 and V2.0. Please set fixture to V2.0 while using WS-RC-C1 or WS-RC-C2 remote controller. Please set fixture to V1.0 while using other remote controllers.



Press MODE button to the interface of MENU.



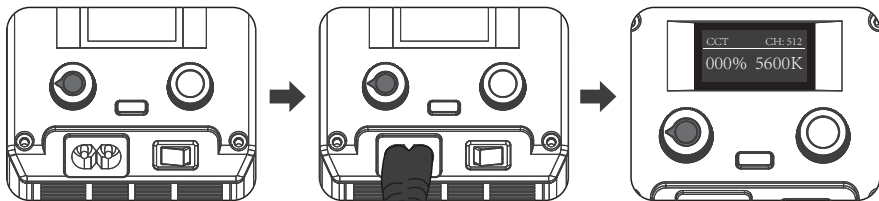
Rotate "Right knob" to WIRELESS PROTOCOL.



Rotate "Left knob" to select V1.0 or V2.0.

Operating Instructions

1. First ensure that the power switch of the fixture is "off ". Then connect the fixture with power supply and turn on the light, the screen will display all the relevant information for the fixture.

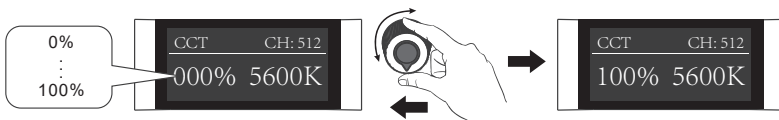


2. CCT Mode setting

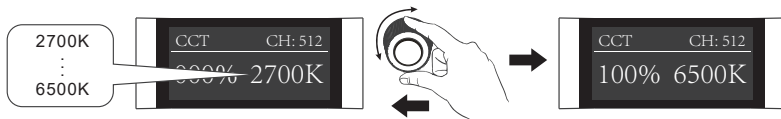
- Press MODE button to CCT mode, rotate "Right knob" to adjust the CCT (CCT range: 2700K...6500K), rotate "Left knob" to adjust the DIM (DIM range: 000%...100%).



Press MODE button to CCT mode.



Rotate "Left knob" to adjust the DIM.



Rotate "Right knob" to adjust the CCT.

Note: ① In effect mode, DIM range is the same as the CCT MODE.

② In effect mode, the color temperature is not synchronized with the color temperature in CCT mode, and the CCT adjustment range is the same as that in the CCT mode.

③ When the fixture function is unlocked, in any modes, press "Left knob" to turn off the light, the brightness percentage on the screen is 000% in this case. Press again to restore the light to its previous state, and press continuously to switch between on and off.

3. EFFECT Mode setting

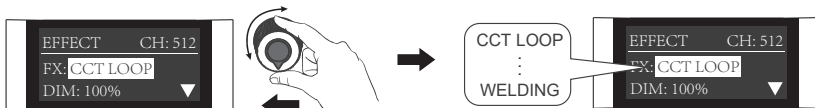
Press MODE button to EFFECT MODE. The FS-60B has built-in effects including CCT LOOP, INT LOOP, FLASH, PULSE, STORM, TV, PAPARAZZI, CANDLE/FIRE, BAD BULB, FIREWORK, EXPLOSION and WELDING.



Press MODE button to EFFECT mode.



Rotate "Right knob" to FX.



Rotate "Left knob" to select the desired effect.

① CCT LOOP

CCT LOOP setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 02S...30S), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

② INT LOOP

INT LOOP setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 02S...30S), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

③ FLASH

FLASH setting: rotate "Right knob" to select from DIM, CCT and INTERVALS (Range: 0.1S...10S), then rotate "Left knob" to adjust the value of DIM, CCT and INTERVALS.



Rotate "Right knob" to select from DIM, CCT and INTERVALS.



Rotate "Left knob" to adjust the value of DIM, CCT and INTERVALS.

④PULSE

PULSE setting: rotate "Right knob" to select from DIM, CCT and PULSES/MIN (Range: 001...240), then rotate "Left knob" to adjust the value of DIM, CCT and PULSES/MIN.



Rotate "Right knob" to select from DIM, CCT and PULSES/MIN.



Rotate "Left knob" to adjust the value of DIM, CCT and PULSES/MIN.

⑤STORM

STORM setting: rotate "Right knob" to select from DIM, CCT and INTVL (range: 1s ... 60s) , then rotate "Left knob" to adjust the value of DIM, CCT and INTVL.



Rotate "Right knob" to select from DIM, CCT and INTVL.



Rotate "Left knob" to adjust the value of DIM, CCT and INTVL.

⑥TV

TV setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 001...100), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

⑦PAPARAZZI

PAPARAZZI setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 001...100), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

⑧ CANDLE/FIRE

CANDLE/FIRE setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 001...100), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

⑨ BAD BULB

BAD BULB setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 001...100), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

⑩FIREWORK

FIREWORK setting: rotate "Right knob" to select from DIM ,CCT, SPD (Range: 001...100) and DECAY (Range: 001...100), then rotate "Left knob" to select from DIM ,CCT, SPD and DECAY.



Rotate "Right knob" to select from DIM, CCT, SPD and DECAY.



Rotate "Left knob" to select from DIM, CCT, SPD and DECAY.

⑩EXPLOSION

EXPLOSION setting: rotate "Right knob" to select from DIM, CCT, SPD (Range: 001...100) and DECAY (Range: 001...100), then rotate "Left knob" to select from DIM ,CCT, SPD and DECAY.



Rotate "Right knob" to select from DIM, CCT, SPD and DECAY.



Rotate "Left knob" to select from DIM ,CCT, SPD and DECAY.

⑪WELDING

WELDING setting: rotate "Right knob" to select from DIM, CCT, SPD (Range: 001...100) and PAUSE (ON/OFF), then rotate "Left knob" to adjust the value of DIM, CCT, SPD and PAUSE.



Rotate "Right knob" to select from DIM, CCT, SPD and PAUSE.



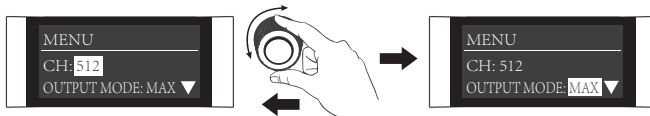
Rotate "Left knob" to adjust the value of DIM, CCT, SPD and PAUSE.

- Special effects may be upgraded based on the firmware update. Please refer to the latest firmware function description for reference.

4. MENU setting



Press MODE button to MENU.



Rotate "Right knob" to select from CH, OUTPUT MODE, BLUETOOTH, WIRELESS PROTOCOL, FAN, FIRMWARE UPDATE, LANGUAGE and VERSION.

①CH



Press "Right knob" to MENU.



Rotate "Left knob" to set the channel.

② OUTPUT MODE



Press MODE button to MENU.

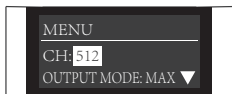


Rotate "Right knob" to OUTPUT MODE.

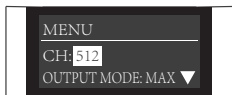


Rotate "Left knob" to select MAX or CONSTANT.

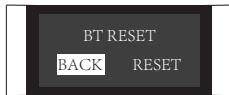
③BLUETOOTH RESET



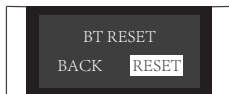
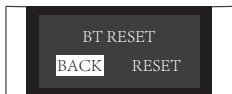
Press MODE button to MENU.



Rotate "Right knob" to BT.



Press "Right knob" to the interface of bluetooth reset.



Rotate "Right knob" to select RESET.



Press "Right knob" to confirm the reset, and it will return to menu after bluetooth reset.

④ WIRELESS PROTOCOL

Please refer to P7 for the details of wireless protocol setting.

⑤ FAN



Press MODE button to MENU.



Rotate "Right knob" to FAN.



Rotate "Left knob" to select ON or OFF.

Note: When the fan is turned on, the maximum output of the light will be 100%.

When the fan is turned off, the maximum output of the light will be 25%.

⑥ FIRMWARE UPDATE

Insert the USB flash drive with latest firmware into the fixture.



Press MODE button to MENU.



Rotate "Right knob" to FW UPDATE.



Press "Right knob" to enter the interface of firmware update.



Rotate "Right knob" to select UPDATE.



Press "Right knob" to confirm the update, it will show "FIRMWARE UPDATED" after the firmware update is completed.

⑦ LANGUAGE



Press MODE button to MENU.



Rotate "Right knob" to LANGUAGE.

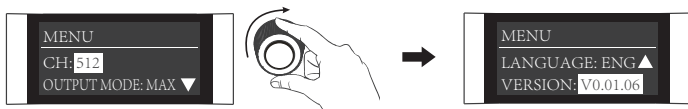


Rotate "Left knob" to select Chinese or English.

⑧VERSION



Press MODE button to MENU.



Rotate "Right knob" to VERSION to check the firmware version.

⑨Long press the "Right knob" to lock all functions, then the current status can't be changed by adjustment knobs.

Long press the "Right knob" again to release the lock status.



Long press the "Right knob" to lock all functions.




Long press the "Right knob" again to release the lock status.

5. When the fixture is not in use, please turn off the power switch.

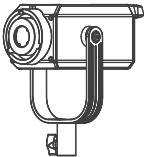





Safety Precautions

1. Please open the package to check for possible damage caused in transit. Please do not use if damage is found and do contact place of purchase or manufacturer.
2. Please do not use a power cord with damaged insulation, do not unplug too hard or drag the power cord directly.
3. Make sure that the power supply voltage used matches the voltage designated by the light before installation.
4. Please turn the light off when it is not in use or before cleaning.
5. Please keep the light safely stored and away from children.

Notice

1. Please take off the COB protective cap before using.
2. Please do not look directly at the emitter when the light is on .
3. Please wait 10 seconds to turn off the light fixture after any parameter setting in order to save it for future use.
4. Please do not place any objects on the light emitter or allow liquid to flow inside the fixture or the emitter.
5. Please do not place the light fixture near the flammable substances like alcohol or gasoline.
6. Please wipe off debris or dirt by using a cloth with clean water or neutral cleanser when cleaning the light.
7. The fixture should be used in dry and ventilated place and avoid being used in damp, dusty or overheated environment, also make sure the fan and the vents are not blocked or obstructed.
8. Any attempt to repair the fixture by yourself will void warranty, disassembling and repair can only be allowed when trained professionals are involved under strict protocol regulated in this manual.
9. For optimal cooling of the fixture, the vents should not be covered when using, or might result in damaging the equipment. The temperature on the fixture surface is high when using for a long time, please caution to prevent burns and scalds.

What's in the box? Please kindly check

<p>FS-60B x 1</p>	<p>Power Cable 3M x 1</p>	<p>RF-FMM-45-S Reflector x 1</p>
		
<p>COB Protective Cap x 1</p>	<p>Bowens Mount Adapter x 1</p>	<p>User Manual x 1</p>
		


General Fault Detection and Diagnosis

Fault Detection	Diagnosis
The light won't boot up properly.	<ol style="list-style-type: none"> 1. Please check whether the power cable and outlet connection is properly connected or loose. 2. Please check whether the voltage value is within the specified parameters.
The fixture produces light, but the LCD display is not working.	Control board is damaged or connecting cables of control board fall off.
The LCD display is on but no light output.	<ol style="list-style-type: none"> 1. Please check whether the INT is zero or not. 2. LED board or main board may be damaged. 3. Please check whether the connecting cable of LED board fall off.
The fixture has an abnormal flicker.	<ol style="list-style-type: none"> 1. Please check if there are any high temperature object near that make the operational environment temperature too high. 2. Please check if the fixture is in any special effect mode.
The inside fan can not work.	If the screen shows "The fixture is overheated, please check the fixture!" that means the fan is damaged, please contact with place of purchase or manufacturer for repair.
If the failure is not resolved after troubleshooting, please contact with place of purchase or manufacturer.	

This manual and all stats within it were produced under controlled conditions, and are accurate at time of print. Any future changes to design/technical data can be found at www.nanlite.com.

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NANLITE

 +86-754-85751187

 +86-754-85300887

 service@nanlite.com

 Zhanglin,324,Dongli Chenghai Shantou Guangdong China

www.nanlite.com