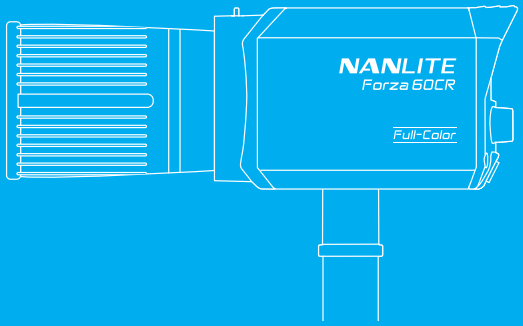
NANLITE

Forza 60CR LED RGBLAC Spot Light



USER MANUAL

Guangdong Nanguang Photo&Video Systems Co., Ltd.

Introduction

Thank you for purchasing Nanlite product -- Forza 60CR!

The Forza 60CR is a LED full-color spot light equipped with Nanlite's RGBLAC six-color mixing system, providing a wider spectrum and color gamut. The fixture features built-in CCT, HSI, and effects modes, allowing for a wide color temperature range of 1800K-20000K, ±100 green and magenta adjustments, and 15 special effects. In addition to on-board and remote control options, it can also be controlled by the Nanlink App, DMX/RDM, and LumenRadio CRMX, unlocking more control possibilities. It supports power via the included adapter or NP-F battery grip, or V-mount battery grip (optional), providing flexible power solutions for productions. Designed with an FM mount, it is not only compatible with all FM mount accessories, but also with Bowens mount accessories after mounting the included Bowens adapter, having more light shaping possibilities.

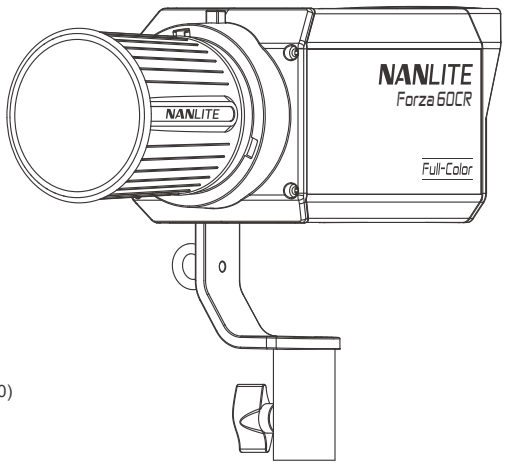
Weighing only 1.08kg and combined with lightweight FM mount accessories and battery grip, the Forza 60CR offers an ideal choice for on-the-go situations.

Notice

1. Please remove the COB protective cap before using the fixture.
2. Please do not look directly at the emitter when the fixture is on  .
3. Please keep for 10s after settings before turning off the fixture. The settings will be restored upon restarting.
4. Please do not place any object on the fixture or allow liquid to flow inside the fixture.
5. Please do not place the fixture near any flammable or volatile substances like alcohol or gasoline.
6. Please do not use strong detergent for cleaning. Please wipe off the dirt by using a cloth with neutral cleanser when cleaning the fixture.
7. Please set up the fixture in a dry and well-ventilated place. Please do not use it in any humid, dusty or overheated environment. Meanwhile, please also check whether the fan and vent are unimpeded.
8. Please do not disassemble the fixture for repairs at will. Maintenance should be conducted by qualified professionals strictly following the operating procedures described in this manual.
9. Please do not cover the vents when using the fixture to avoid affecting heat dissipation, which may result in damage. Please pay attention to the risk of burns when using the fixture for an extended period, as the surface temperature may become high.

Forza 60CR LED RGBLAC Spot Light

Product Diagram



Technical Data

Rated power: 88W

Input: DC15V/6A Max

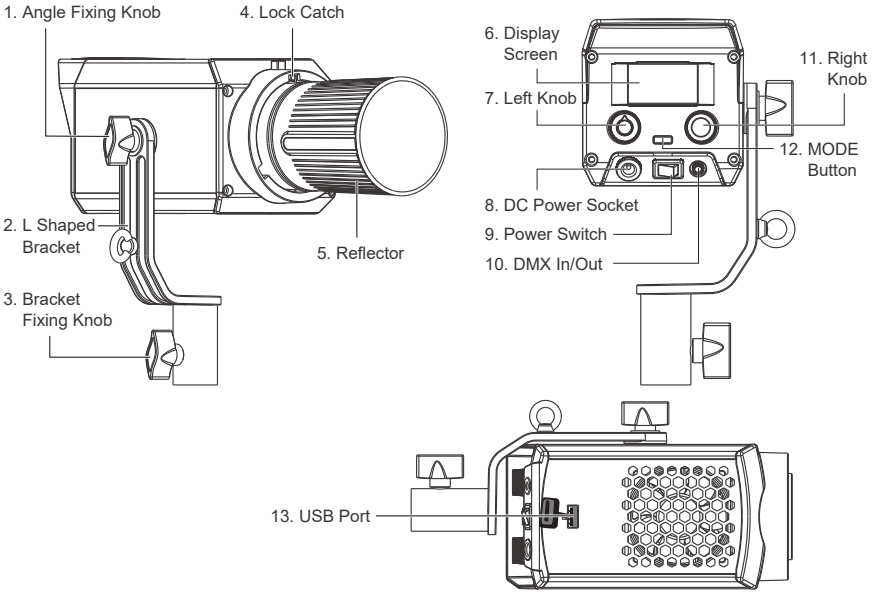
AC100-240V 50/60Hz

Color Temperature: 1800K-20000K(G/M±100)

CRI: Average 96

TLCI: Average 95

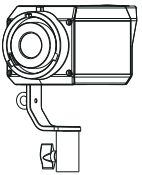
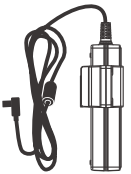
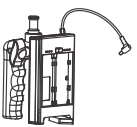
Product Details



Detailed Description

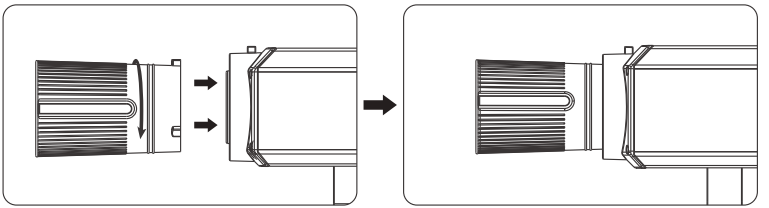
1. Angle Fixing Knob: For adjusting and fixing the direction of fixture in tilt.
2. L Shaped Bracket: Enabling the fixture to be mounted on the light stand and allowing for the tilting of the fixture.
3. Bracket Fixing Knob: For securing the fixture on the light stand.
4. Lock Catch: For securing and detaching FM mount accessories.
5. Refector: For gathering light to improve the central illumination.
6. Display Screen: For displaying the settings.
7. Left Knob: For adjusting the parameters or switching among different selections.
8. DC Power Socket: DC power input.
9. Power Switch: For turning on/off the fixture.
10. DMX In/Out: To connect the DMX adapter cable for DMX signal input and output.
    (Note: DMX adapter cable is sold separately).
11. Right Knob: For switching options.
12. MODE Button: For switching among CCT/HSI/EFFECT modes and MENU.
13. USB Port: For updating the firmware.

Includes

Forza 60CR × 1	Power Adapter × 1	Power Cable × 1	RF-FMM-45-S Reflector × 1
			
Carrying Bag × 1	COB Protective Cap × 1	BT-BG-FZ60 Battery Grip × 1	AS-BA-FMM Bowens Adapter × 1
			
User Manual × 1			
			

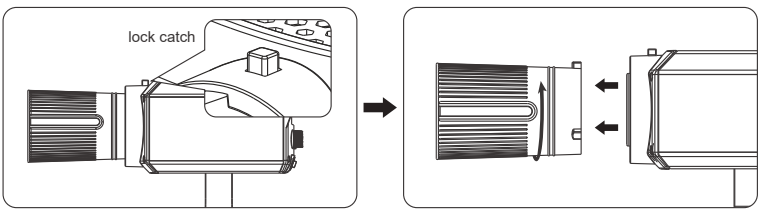
Usage

1. Installation and Detachment of Reflector



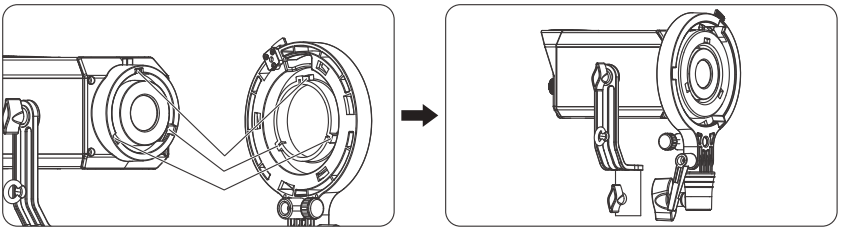
When installing the reflector, align the reflector to the fixture's FM mount, rotate the reflector in the direction indicated on the fixture until it clicks into place.

Note: This fixture is equipped with an FM mount, so please attach accessories that with FM mounts. If accessories with a Bowens mount are required, please mount them after installing the Bowens adapter.

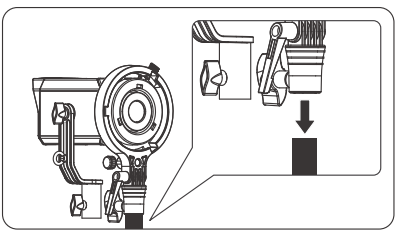


To remove the reflector, press the lock catch while rotating it until the reflector is free from the fixture.

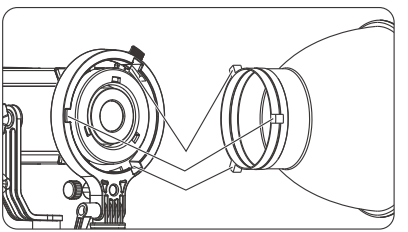
2. Installation and Detachment of Bowens Adapter



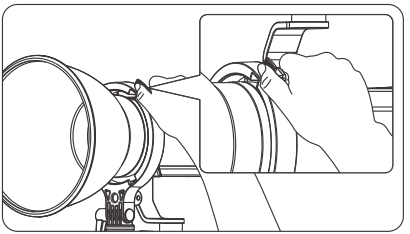
When installing the adapter, ensure that its mounting points align with the fixture's FM mount, then rotate it in the direction indicated on the fixture until it clicks into place.



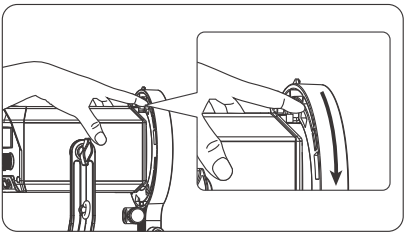
Mount the adapter on the light stand.



Ensure the Bowens mount accessory aligns with the slots of the Bowens adapter, then rotate it in the direction indicated on the adapter until it is securely in place.

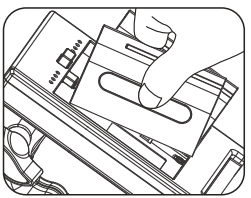


To remove the accessory, press the lock catch and then rotate it in the direction indicated on the adapter until it is free from the adapter.

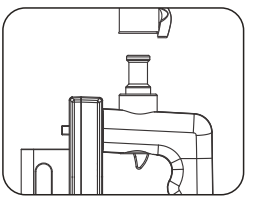


To remove the Bowens adapter, press the lock catch and then rotate it in the direction indicated on the fixture until it is free from the fixture.

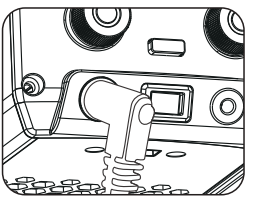
3. Installation of Battery Grip



Mount two NP-F batteries onto the battery holder of the grip.



Mount the fixture onto the bracket connector of the grip and rotate the fixing knob to secure.



Ensure the fixture is off, connect the DC power plug of the grip to the DC power socket of the fixture.

Remote Control

The Forza 60CR is built with DMX In/Out, enabling it to be controlled by wired DMX/RDM.

The Forza 60CR is built with 2.4G, Bluetooth and LumenRadio modules, enabling it to be controlled by the remote controller, NANLINK APP or LumenRadio CRMX wireless control.

▲Remote controller is sold separately.

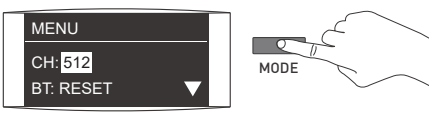
▲The address needs to be set before operating the remote control via 2.4G, DMX/RDM or LumenRadio CRMX.

1. 2.4G Control

The wireless protocol needs to be set before operating the remote control via remote controller.

Please set the fixture in V2.0 while using the WS-RC-C2 remote controller, and set it in V1.0 while using other remote controllers.

1.1 Address Settings



Press the MODE button to enter the menu.

Rotate the right knob to CHANNEL.

Rotate the left knob to select the address.

1.2 Wireless Protocol Setting

Rotate the right knob to WIRELESS PROTOCOL.

Rotate the left knob to select V1.0 or V2.0.

2. Bluetooth Control

Bluetooth reset should be done on the fixture before using the NANLINK APP to control.

Rotate the right knob to BLUETOOTH.

Rotate the left knob to enter the interface of BLUETOOTH RESET.

Rotate the right knob to RESET, and press the right knob to set.

3. DMX Control

3.1 For address settings, please refer to the instructions in section 1.1.

3.2 DMX Settings

①DMX Mode

Rotate the right knob to DMX MODE.

Rotate the left knob to select the desired DMX mode.

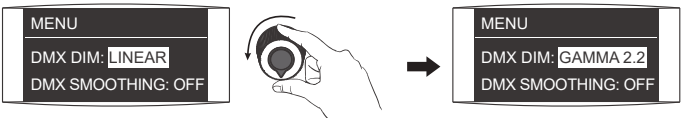
②DMX REDUCED CHANNELS

Rotate the right knob to DMX REDUCED CHANNELS.

Rotate the left knob to select ON or OFF.

③DMX DIMMING CURVE

Rotate the right knob to DMX DIMMING CURVE.



Rotate the left knob to select the desired dimming curve.

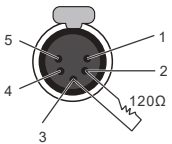
④DMX SMOOTHING

Rotate the right knob to DMX SMOOTHING.

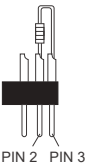
Rotate the left knob to select ON or OFF.

3.3 DMX Connection

In DMX control mode, the DMX output of the last light fixture should be connected with a DMX terminator (not included). The terminator is connected with a 120Ω(OHM) resistor across Pin 2 and Pin 3 (As shown below). This prevents interference caused by DMX signals in the transmitting process.



DMX Terminator Connection
Connect a 120Ω(OHM) resistor across Pin 2 and Pin 3 in an XLR plug and insert into the DMX OUT socket on the last fixture.



3.4 Refer to the DMX CHARTS and control the fixture via DMX/RDM console. (For detailed operation, please refer to the DMX/RDM console operation manual.)

▲ Download the latest technical data from www.nanlite.com.

4. RDM Control

4.1 For address settings, please refer to the instructions in section 1.1.

4.2 For DMX settings, please refer to the instructions in section 3.2.

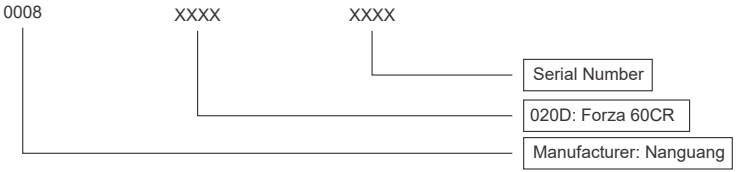
4.3 RDM Connection

Connect the light fixture to the console with RDM function by using a connection cable.
The connecting method is the same as that of DMX console.

4.4 RDM Control

Control the fixture via a console with RDM function. (For specific operation methods, please refer to the RDM console operation manual.)

Note: The UID format of the fixture is as follow:



5. LumenRadio CRMX Control

Forza 60CR has built-in TIMO RX module, enabling it to receive CRMX wireless DMX signals.

5.1 For address settings, please refer to the instructions in section 1.1.

5.2 For DMX settings, please refer to the instructions in section 3.2.

5.3 CRMX ON

Rotate the right knob to CRMX.

Rotate the left knob to select ON or OFF.

CRMX wireless DMX signals can be received when the CRMX is ON.

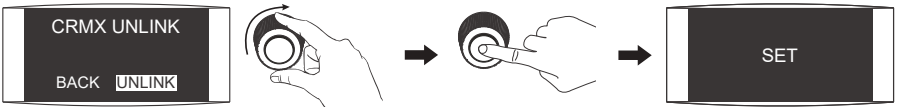
5.4 CRMX UNLINK

The CRMX should be set to UNLINK to allow the fixture to reconnect to a new fixture or transmitter.

The specific operations are as below:

Rotate the right knob to CRMX UNLINK.

Rotate the left knob to enter the interface of CRMX UNLINK.



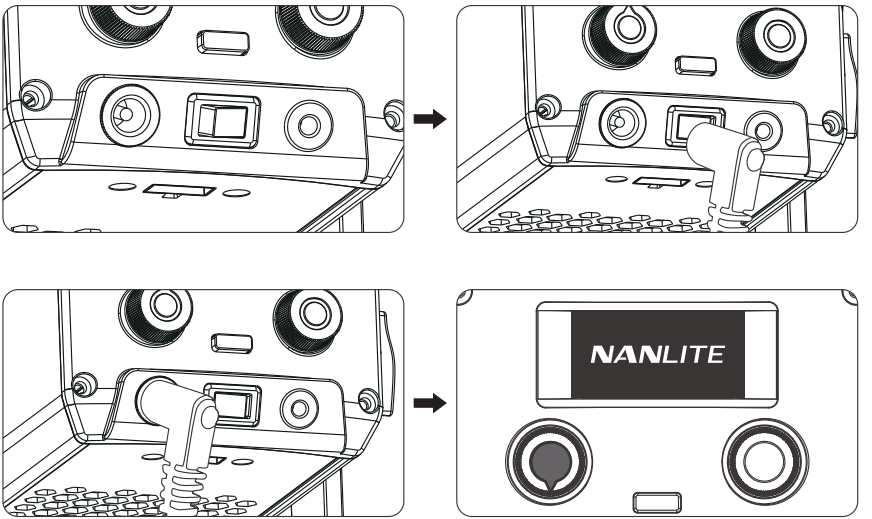
Rotate the right knob to UNLINK, and press the right knob to set.

5.5 CRMX Connection

Connect the fixture set in transmitter mode or CRMX wireless DMX transmitter with the fixture that requires receiving CRMX signals.

Operating Instructions

1. Make sure the fixture is turned off, remove the COB protective cap, connect the fixture and power adapter, connect the power adapter to the power outlet via the power cable, and turn on the power switch, the screen will display "NANLITE".



2. CCT Mode Settings

Press the MODE button to CCT mode, rotate the right knob to select the DIM (range: 000%-100%),
CCT (range: 01800K-20000K) or G/M (range: -100 to 100), and rotate the left knob to set the corresponding parameters.

Press the MODE button to CCT mode.

Rotate the right knob to select the DIM, CCT or G/M.

Rotate the left knob to set the corresponding parameters.

Note: In other modes, the adjusting ranges of DIM, CCT and G/M are the same as in CCT mode.
When the fixture function is unlocked, in CCT or HSI modes, press the left knob to turn off the light, the brightness displayed on the screen will be 000%. Press again to restore the brightness, and press continuously to switch between on and off.

3. HSI Mode Settings

Press the MODE button to HSI mode, rotate the right knob to select DIM (range: 000%-100%), HUE (range: 000-360, can be selected in a loop) or SAT (range: 000-100), and rotate the left knob to set the corresponding parameters.

Press the MODE button to HSI mode.

Rotate the right knob to select DIM, HUE or SAT.

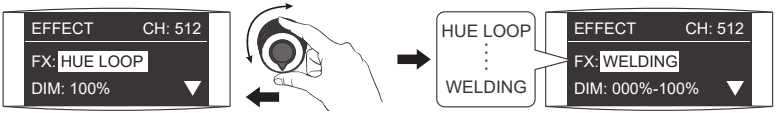
Rotate the left knob to set the corresponding parameters.

Note: In other modes, the adjusting ranges of DIM, HUE and SAT are the same as in HSI mode.

4. EFFECT Mode Settings

Forza 60CR has 15 built-in effects, including HUE Loop, CCT Loop, INT Loop, Flash (CCT Flash and HUE Flash), Pulse (CCT Pulse and HUE Pulse), Storm, Police Car, TV, Paparazzi, Candle/Fire, Disco, Bad Bulb, Firework, Explosion and Welding.

Press the MODE button to EFFECT mode.



Rotate the left knob to select the desired effect.

4.1 HUE LOOP

Rotate the right knob to select DIM, HUE or SPEED (range: 02s-30s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, HUE or SPEED.

Rotate the left knob to set the corresponding parameters.

4.2 CCT LOOP

Rotate the right knob to select DIM, CCT or SPEED (range: 02s-30s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT or SPEED.

Rotate the left knob to set the corresponding parameters.

4.3 INT LOOP

Rotate the right knob to select DIM, SPEED (range: 02s-30s) or COLOR (CCT or HUE), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, SPEED or COLOR.

Rotate the left knob to set the corresponding parameters.

4.4 FLASH (CCT FLASH and HUE FLASH)

①CCT FLASH

Rotate the right knob to select DIM, CCT, G/M or INTERVALS (range: 0.1s-10.0s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or INTERVALS.

Rotate the left knob to set the corresponding parameters.

②HUE FLASH

Rotate the right knob to select DIM, HUE, SAT or INTERVALS (range: 0.1s-10.0s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, HUE, SAT or INTERVALS.

Rotate the left knob to set the corresponding parameters.

4.5 PULSE (CCT PULSE and HUE PULSE)

①CCT PULSE

Rotate the right knob to select DIM, CCT, G/M or PULSES/MIN (range: 001-240), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or PULSES/MIN.

Rotate the left knob to set the corresponding parameters.

②HUE PULSE

Rotate the right knob to select DIM, HUE, SAT or PULSES/MIN (range: 001-240), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, HUE, SAT or PULSES/MIN.

Rotate the left knob to set the corresponding parameters.

4.6 STORM

Rotate the right knob to select DIM, CCT or INTERVALS (range: 01s-60s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT or INTERVALS.

Rotate the left knob to set the corresponding parameters.

4.7 POLICE CAR

Rotate the right knob to select DIM, COLOR (range: BLUE, RED&BLUE, BLUE&WHITE, RED&BLUE&WHITE) or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, COLOR or SPEED.

Rotate the left knob to set the corresponding parameters.

4.8 TV

Rotate the right knob to select DIM, CCT, G/M or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or SPEED.

Rotate the left knob to set the corresponding parameters.

4.9 PAPARAZZI

Rotate the right knob to select DIM, CCT, G/M or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or SPEED.

Rotate the left knob to set the corresponding parameters.

4.10 CANDLE/FIRE

Rotate the right knob to select DIM, CCT, G/M or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or SPEED.

Rotate the left knob to set the corresponding parameters.

4.11 DISCO

Rotate the right knob to select DIM, COLOR (range: 3, 6, 9, 12, 15, 18, 21, 24) or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, COLOR or SPEED.

Rotate the left knob to set the corresponding parameters.

4.12 BAD BULB

Rotate the right knob to select DIM, CCT, G/M or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or SPEED.

Rotate the left knob to set the corresponding parameters.

4.13 FIREWORK

Rotate the right knob to select DIM, COLOR (range: 3, 6, 9, 12, 15, 18, 21, 24), SPEED (range: 001-100) or DECAY (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, COLOR, SPEED or DECAY.

Rotate the left knob to set the corresponding parameters.

4.14 EXPLOSION

Rotate the right knob to select DIM, CCT, G/M, SPEED (range: 001-100) or DECAY (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M, SPEED or DECAY.

Rotate the left knob to set the corresponding parameters.

4.15 WELDING

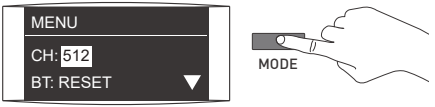
Rotate the right knob to select DIM, CCT, G/M, SPEED (range: 001-100) or PAUSE (OFF/ON), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M, SPEED or PAUSE.

Rotate the left knob to set the corresponding parameters.

▲Some special effect functions may be updated with firmware upgrades. Please refer to the latest firmware function description at www.nanlite.com.

5. MENU Settings



Press the MODE button to enter the menu.

Rotate the right knob to select CHANNEL, BLUETOOTH, DMX MODE, DMX REDUCED CHANNELS, DMX DIMMING CURVE, DMX SMOOTHING, CRMX, WIRELESS PROTOCOL, FAN, FIRMWARE UPDATE, LANGUAGE or VERSION.

5.1 ADDRESS

For detailed operations, please refer to P10.

5.2 BLUETOOTH

For detailed operations, please refer to P12.

5.3 DMX MODE

For detailed operations, please refer to P13.

5.4 DMX REDUCED CHANNELS

For detailed operations, please refer to P13.

5.5 DMX DIMMING CURVE

For detailed operations, please refer to P14.

5.6 DMX SMOOTHING

For detailed operations, please refer to P14.

5.7 CRMX Settings

For detailed operations, please refer to P16.

5.8 WIRELESS PROTOCOL

For detailed operations, please refer to P11.

5.9 FAN Settings

Rotate the right knob to FAN.

Rotate the left knob to select SMART, FULL SPEED, LOW SPEED or OFF.

Note: When the fan is in SMART or FULL SPEED mode, the maximum power output of the fixture is 100%.

When the fan is in LOW SPEED mode, the maximum power output of the fixture is 50%.

When the fan is in OFF mode, the interior fan will stop working, and the maximum power output of the fixture is 25%.

5.10 FIRMWARE UPDATE

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

Rotate the right knob to FIRMWARE UPDATE.

Rotate the left knob to enter the interface of SEARCHING FOR FIRMWARE FILE.

Rotate the right knob to select UPDATE.

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

5.11 LANGUAGE

Rotate the right knob to LANGUAGE.

Rotate the left knob to select ENGLISH or 中文.

5.12 VERSION

Rotate the right knob to VERSION to check the firmware version.

6. Lock and Unlock Settings

Long press the right knob to lock the lighting parameters. The current settings cannot be changed by pressing the button or rotating the knobs.

Long press the right knob again to unlock.

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

General Fault Detection and Diagnosis

Fault Detection	Diagnosis
The light won't boot up properly.	1. Please check whether the connection between the power adapter and the cable or fixture is loose. 2. Please check whether the voltage value of power adapter is within the specified range. 3. When the fixture is powered by battery, please check whether the battery is properly installed and whether its voltage/current is within the specified range.
The fixture can be operated manually, but DMX control is not working.	1. Please check whether the DMX address setting is correct. 2. Please check whether the DMX adapter cable is connected correctly and without damaged.
The display screen is on but no light output.	The COB or main board is damaged.
The fan doesn't work.	Please check whether the fan is in OFF mode.
The above issues may not necessarily be caused by a malfunction. Please check again before contacting the place of purchase or manufacturer.	

Please scan the QR code for more details.

DMX Charts

Nanlite Website

Nanlink App

This manual has been compiled based on rigorous testing for Nanlite products.
For any subsequent product changes, the latest manual of this product can be downloaded from www.nanlite.com.

Certification

IS 10322
(PART 5/SEC 1): 2012

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www.bis.gov.in


CCAK23Y10180T2


CCAK20Y10020T5


CCAK21Y10070T2

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