

NANLITE

FC-720C

LED RGBW Spot Light

USER MANUAL

Version: V1.0
2025-10-21

Revision History

Version	Date (Y-M-D)	Note
V1.0	2025-10-21	File First Publish

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1. Introduction

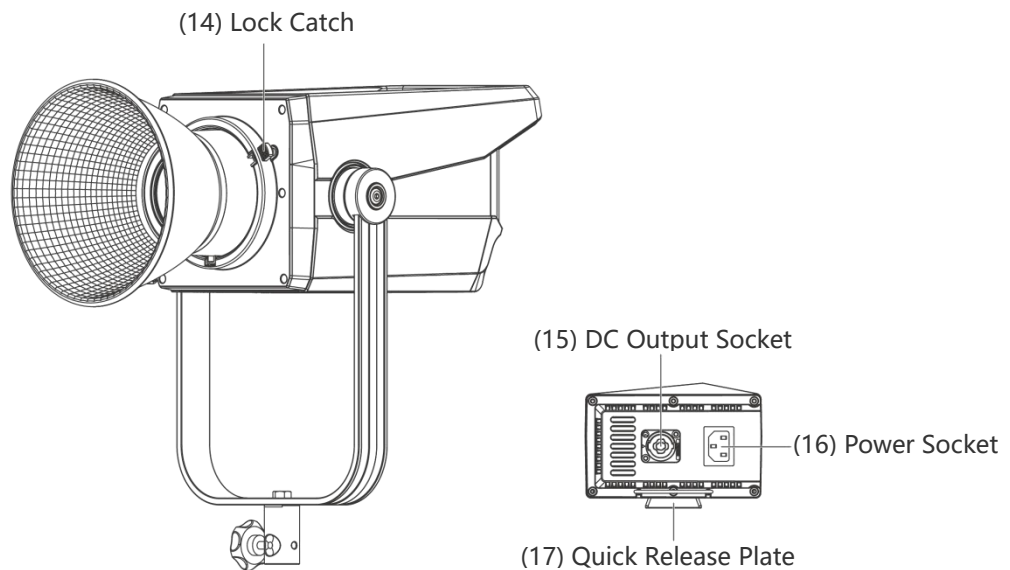
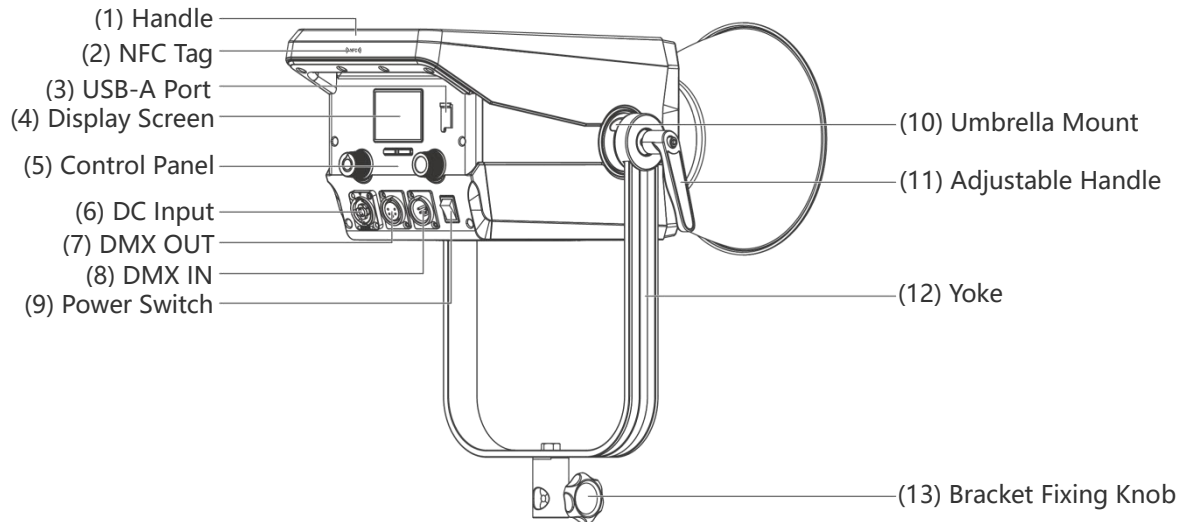
Thank you for purchasing Nanlite product -- FC-720C!

The FC-720C is a high-powered full-color spotlight. With a rated power of 750W, it delivers a wide CCT range from 2400K to 12000K, ± 150 green/magenta adjustment, 15 built-in effects, and supports dimming in 0.1% increments. Its lighting modes include CCT, HSI, RGBW, Gel, and Effect. The fixture features a Bowens mount and an umbrella hole, making it compatible with various accessories. It supports multiple control options, including on-board, the Nanlink App, and DMX/RDM, providing versatile operation in complex lighting setups.

The FC-720C will bring great convenience to your creation and inspire boundless creativity. Before using FC-720C, please read this manual carefully to ensure you can fully utilize all the features. Hope it can work with you to create more brilliant results together.

2. Product Overview

2.1. Product Layout



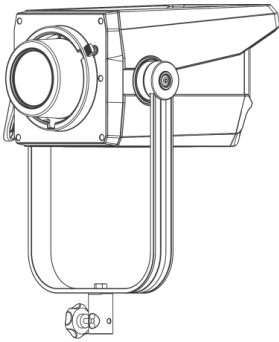
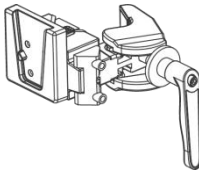
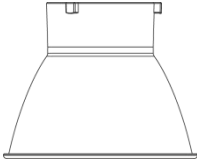
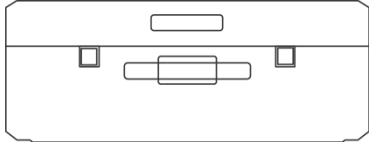
- (1) Handle: For lifting the fixture and adjusting the direction of illumination.
- (2) NFC Tag: For supporting NFC function.
- (3) USB-A Port: For updating the firmware.
- (4) Display Screen: For displaying the lighting status and settings.
- (5) Control Panel: Includes two buttons and two knobs, for operating various functions.
- (6) DC Input: For connecting the fixture to the power supply via the DC cable.
- (7) DMX OUT: For DMX signal output.
- (8) DMX IN: For DMX signal input.
- (9) Power Switch: For turning on/off the fixture.
- (10) Umbrella Mount: For installing an umbrella.
- (11) Adjustable Handle: For adjusting and fixing the illumination direction of fixture.
- (12) Yoke: For mounting the fixture on a light stand and adjusting the tilt angle.
- (13) Bracket Fixing Knob: For securing the fixture on a light stand and adjusting the pan angle.
- (14) Lock Catch: For locking or releasing the reflector or other accessories.
- (15) DC Output Socket: For connecting the power supply to the fixture via the DC cable.
- (16) Power Socket: For connecting the power supply to the power outlet via the AC cable.
- (17) Quick Release Plate: For mounting the quick release clamp.

2.2. Specifications

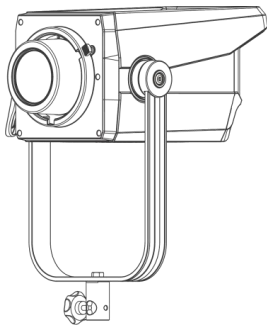
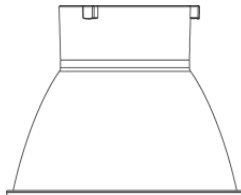
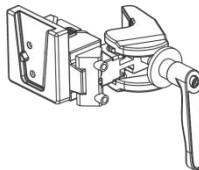
Model Name	FC-720C
Rated Power	750W
Input Voltage/Current	AC: 100-240V/50-60Hz DC: 45V/7.8A Max ×2
LED Type	RGBW
CCT	2400K → 12000K (G/M±150)
CRI	Average 95
TLCI	Average 94
TM-30 Rf	Average 92
TM-30 Rg	Average 100
Dimming	0.0%-100.0%, by 0.1% increment
Control	On-board, NANLINK APP, DMX/RDM
Special Effects	CCT Loop, INT Loop, HUE Loop, Flash, Pulse, Storm, Police Car, TV, Paparazzi, Candle/Fire, Disco, Bad Bulb, Firework, Explosion and Welding

2.3. Includes

Standard kit:

FC-720C × 1	AC Power Cable × 1	DC Connection Cable × 1
		
	Quick Release Clamp × 1	RF-BM-45 Reflector × 1
		
Power Supply × 1	User Manual × 1	Carry Case × 1
		

FC-720C-SP:

FC-720C × 1	Power Supply × 1	RF-BM-45 Reflector × 1	
			
AC Power Cable × 1	DC Connection Cable × 1	Quick Release Clamp × 1	User Manual × 1
			

3. Safety Instructions

Please read and understand all safety instructions before installing or operating the fixture. Always follow the instructions to avoid personal injury and fixture damage.

Electrical:



Danger

Please ensure that the AC current, voltage and frequency comply with the fixture requirements, and make sure the fixture is properly grounded when connected.



Danger

Please use proper and undamaged cables to connect the fixture correctly, avoiding the risk of electric shock or fixture damage.



Danger

Please disconnect the power before moving or transporting the fixture.

Installation:



Danger

Please carefully read the manual and follow the instructions to install the fixture to avoid any unnecessary incidents.



Danger

Please use light stands or clamps that meet the load-bearing requirements to ensure the fixture's safety and stability when installing the fixture.



Danger

Please secure the fixture with a safety cable that can support at least 10 times the fixture's weight for overhead installation.



Caution

Please wear appropriate protective gloves when installing or removing the fixture or accessory with high-temperature surfaces.

**Caution**

Please pay special attention to the impact of wind and take appropriate reinforcement measures when installing outdoors.

**Caution**

When installing or detaching heavy accessories or adjusting the direction of the fixture, please hold the handle firmly to prevent accidental tilt down. Keep your hands away from the gap between the yoke and the fixture to avoid hand injuries.

Operation:**Danger**

Please stop using the fixture immediately if the fixture housings or cables show visible damage.

**Danger**

Please do not use the fixture near flammable or explosive materials.

**Danger**

Please do not turn on the fixture with an accessory mounted and place it face down on flammable materials, as this may cause burns or fire hazards.

**Danger**

Please be cautious, as the flashing effect may trigger seizures.

**Danger**

Please keep the fixture away from corrosive liquids or high-pressure steam.

**Caution**

Please ensure the fixture is used in an environment between -20°C and 45°C; operating outside this temperature range may damage the fixture.

**Caution**

Please do not cover the ventilation openings during use to prevent the fixture from overheating.

**Caution**

Please do not look directly at the light source without wearing protective glasses, as this may cause irreversible eye injury.

**Caution**

Please remind the crew to avoid eye injury caused by accidentally looking directly at the light source before the fixture lights up.

Maintenance:**Danger**

Please do not disassemble or repair any part of the fixture on your own, as this will void the warranty. Maintenance and repair work should be carried out by an authorized service center and professional personnel.

**Danger**

Please disconnect the power before starting any maintenance work.

**Caution**

Please ensure the fixture is completely dry before transportation or storage after using it in a humid environment.

**Notice**

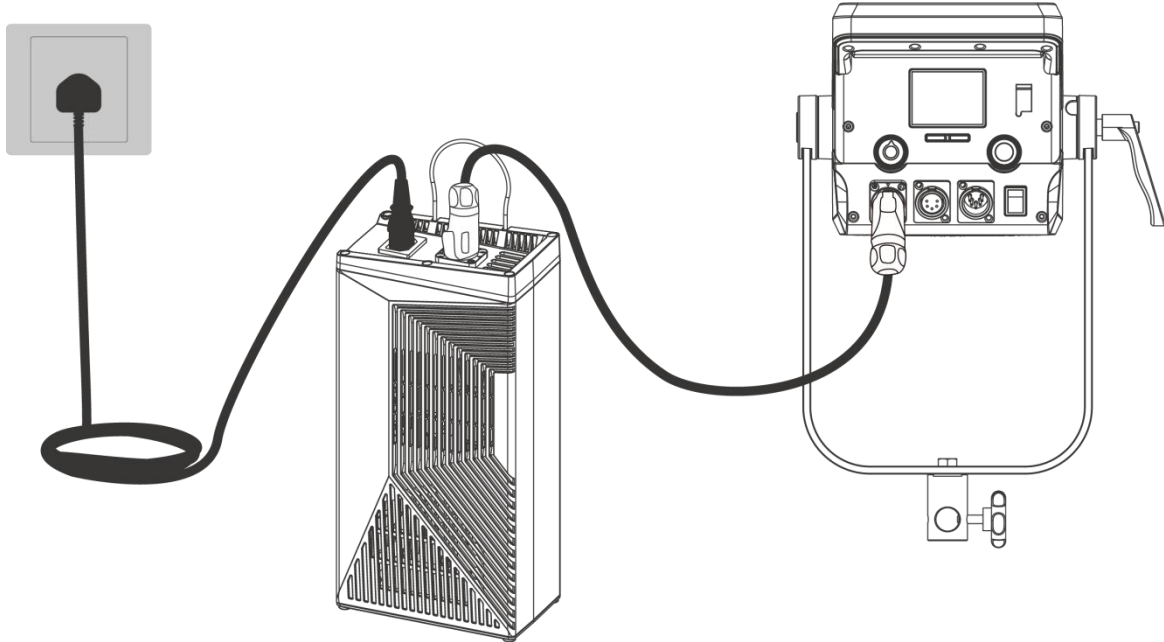
Please ensure the fixture is stored away from the following environments or items: extreme temperatures, direct sunlight, high humidity, intense vibrations, dust, strong magnetic fields, and flammable or explosive materials.

**Notice**

Please transport the fixture and accessories in suitable case to avoid damage.

4. Installing Instructions

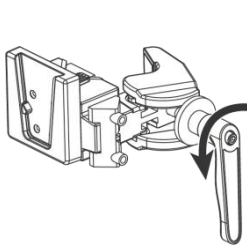
4.1. Connecting the Fixture with the Power Outlet



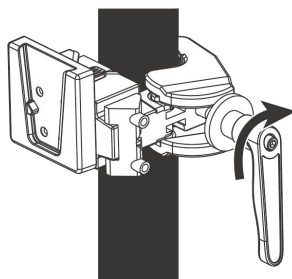
- (1) To power the fixture with AC power, please ensure the power switch is turned off.
- (2) Connect the DC cable to the power supply.
- (3) Connect the AC cable to the power outlet (as shown above).

4.2. Installing and Detaching the Quick Release Clamp

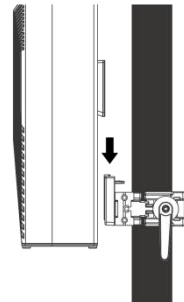
Installation:



- (1) Rotate the adjustable handle to release the clamp.

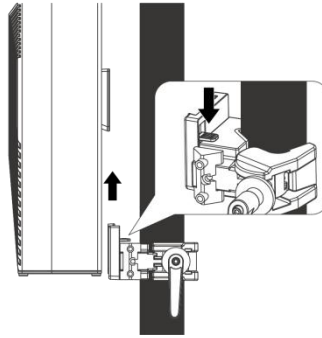


- (2) Mount the quick release clamp on the light stand, then rotate the adjustable handle to tighten the clamp.



- (3) Align the quick release plate on the power supply with the quick release mount on the clamp to mount the power supply on to the clamp.

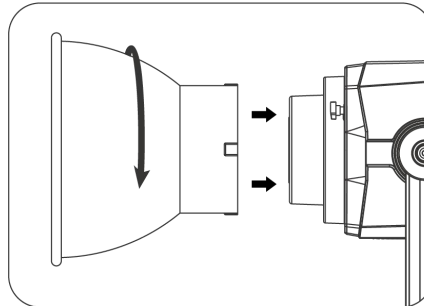
Detachment:



Press the lock catch on the clamp, lift the power supply upward to detach it from the light stand.

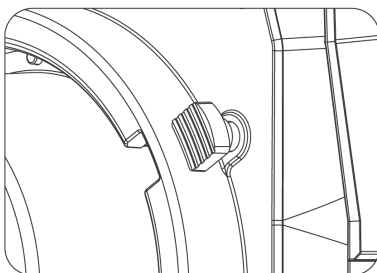
4.3. Installing and Detaching the Reflector

Installation:

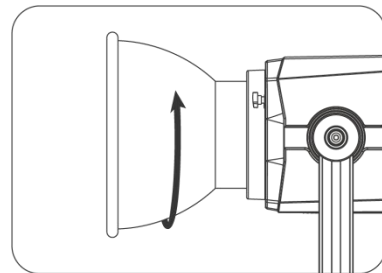


Align the reflector to the fixture's Bowens mount, rotate the reflector clockwise until it clicks into place.

Detachment:

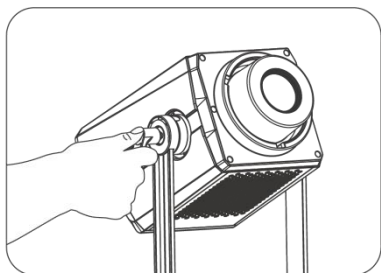


(1) Press the lock catch of the reflector.

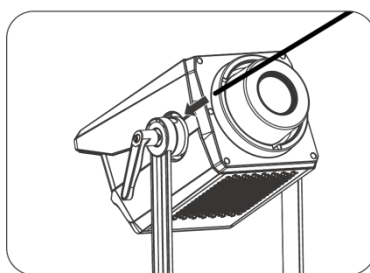


(2) Rotate the reflector anticlockwise to remove it from the fixture.

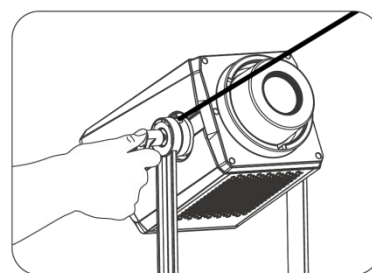
4.4. Installing the Umbrella



(1) Loosen the adjustable handle.



(2) Insert the umbrella into the umbrella mount.



(3) Rotate the adjustable handle to secure the umbrella.

5. Operating Instructions

Connect the fixture to power, turn on the power switch to power up the fixture.

The control panel features two buttons--**MODE**, **MENU**, as well as two knobs: **left knob**, and **right knob**.



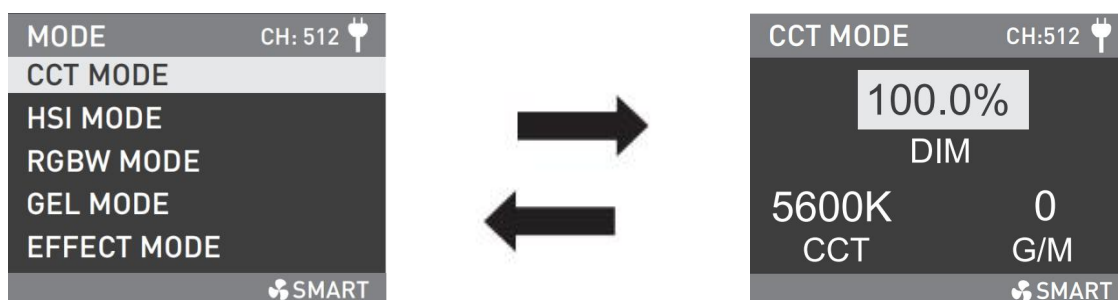
5.1. Lighting Mode Control

This fixture has CCT, HSI, RGBW, Gel, and Effect modes.

5.1.1. Control Panel Control

(1) Mode Selection

Press the **MODE** button to enter the mode selection interface. Rotate the **right knob** to switch options, and press the **right knob** to enter the corresponding mode.



▲ Note: In the mode interface, press the **MODE** button to return to the mode selection interface.

(2) Mode Operation

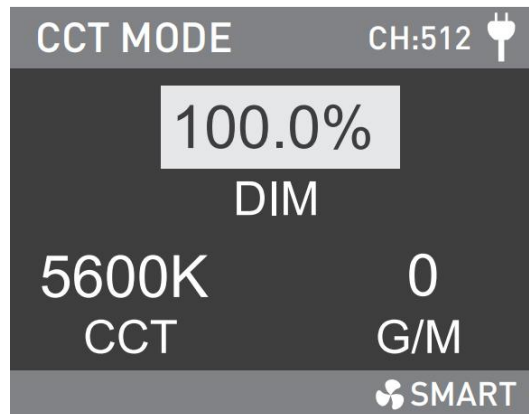
① CCT Mode

Rotate the **right knob** to select the brightness, CCT, or G/M, and the **left knob** to adjust the selected parameter value.

If the brightness is selected, pressing the **left knob** to switch between 0.0% and the current brightness.

If the CCT is selected, pressing the **left knob** will toggle among: 2400K, 2700K, 3200K, 4300K, 5600K, 6500K, 7500K, 8500K, 10000K and 12000K.

If the G/M is selected, pressing the **left knob** will set the value to zero.

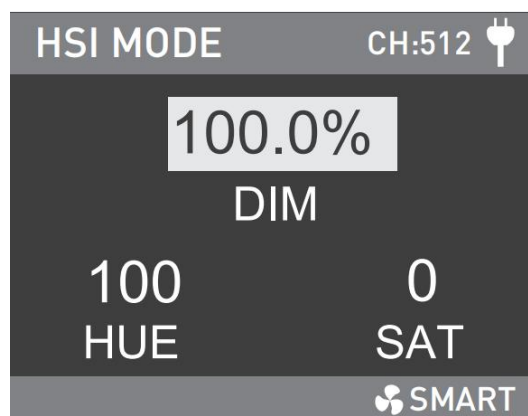


② HSI Mode

Rotate the **right knob** to select the brightness, hue, or saturation, and the **left knob** to adjust the selected parameter value.

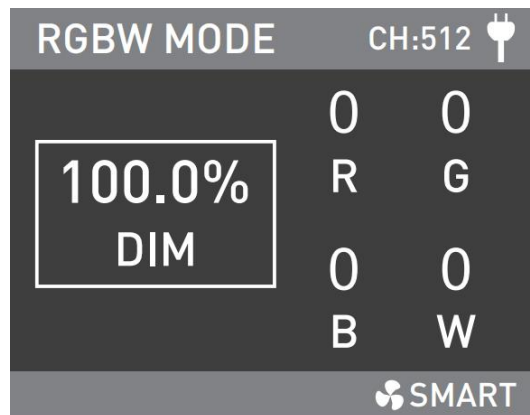
If the hue is selected, pressing the **left knob** will toggle among: 0, 60, 120, 180, 240, 300, and 360.

If the saturation is selected, pressing the **left knob** will toggle among: 100, 75, 50, 25, and 0.



③ RGBW Mode

Rotate the **right knob** to select the brightness, R, G, B or W, and the **left knob** to adjust the selected parameter value.

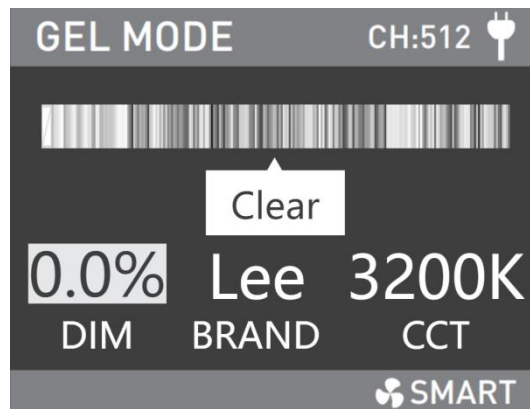


④ Gel Mode

Rotate the **right knob** to select brightness, CCT, Brand or Gel, and the **left knob** to adjust the selected parameter value.

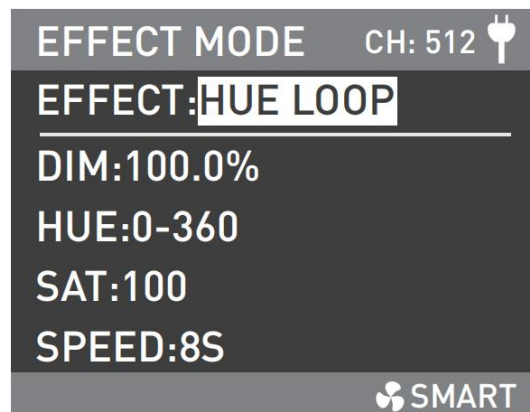
If the CCT is selected, pressing the **left knob** will switch between 3200K and 5600K.

If the Brand is selected, pressing the **left knob** will switch between Lee and Rosco.



⑤ Effect Mode

Rotate the **right knob** to select the parameter, and rotate the **left knob** to adjust the selected parameter value.



5.1.2. DMX Control

(1) DMX Connection

① Connect the fixture to the DMX console via a DMX cable

A 5-pin shielded cable with a diameter of no less than 0.3mm must be used to connect the light fixture to the DMX console.

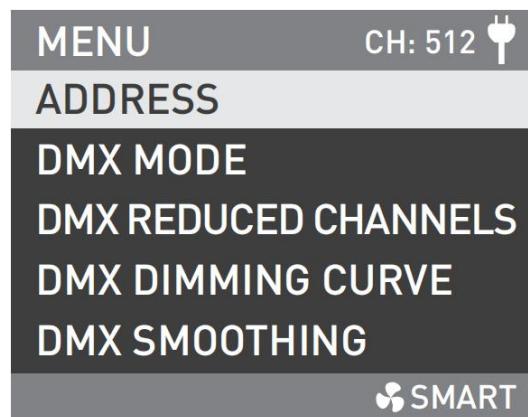
The fixture is built with a 5-pin XLR socket. If the DMX console is built with a 3-pin XLR socket, an adapter will be required.

② DMX Termination Resistor

When connecting fixtures with DMX cables, the DMX out port of the last fixture in the daisy chain must be connected to a DMX termination resistor (not included). This effectively prevents interference during DMX signal transmission.

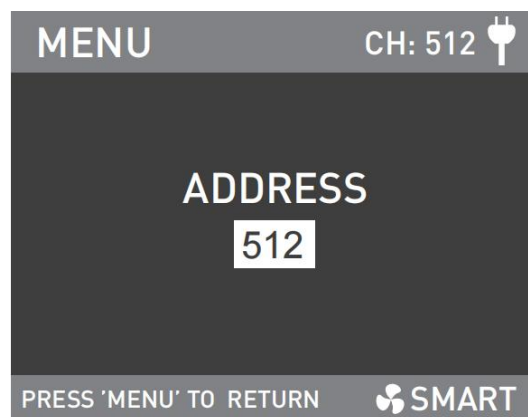
(2) DMX Settings

The DMX settings include Address, DMX Mode, DMX Reduced Channels, DMX Dimming Curve, and DMX Smoothing.



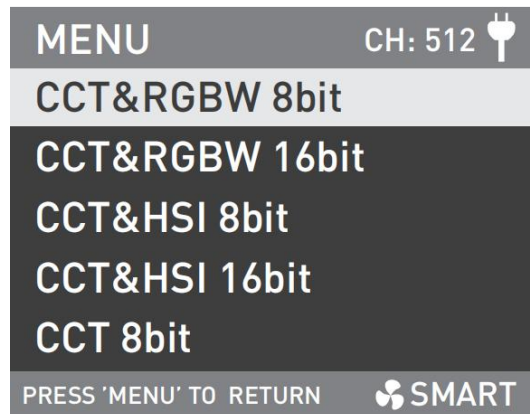
① Address Setting

Enter the address setting interface: Menu → Address/DMX → Address.



② DMX Mode Setting

Enter the DMX mode interface: Menu → Address/DMX → DMX Mode.



③ Other DMX Settings

The operation methods for DMX Reduced Channels, DMX Dimming Curve, and DMX Smoothing are as below:

Rotate the **right knob** to the corresponding DMX setting option and press the **right knob** to enter the level 3 menu.

Rotate the **right knob** to select the parameter, and press the **right knob** to set.

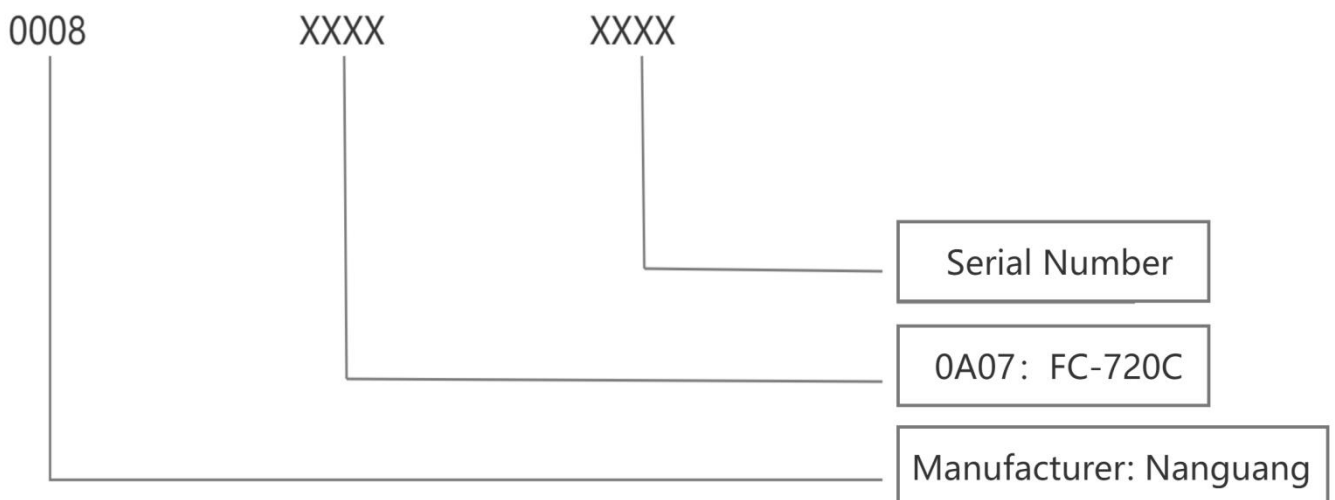
After the DMX settings are finished, and the DMX cable is connected, for detailed operations on controlling the fixture with a DMX console, please refer to the DMX CHARTS.

(3) RDM Function

① Connect the fixture to a console with RDM function using a connection cable.

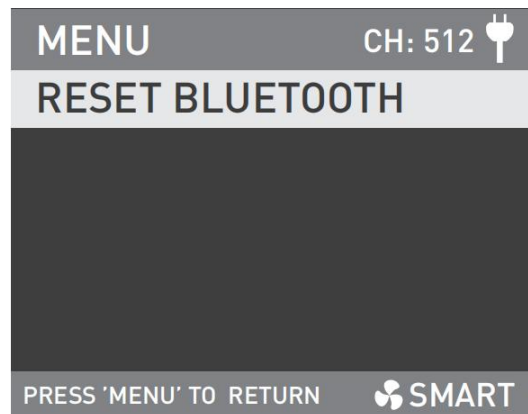
② Control the fixture using a console with RDM function (For detailed operations, please refer to the console manual).

▲ Note: The UID format of fixture is as below:

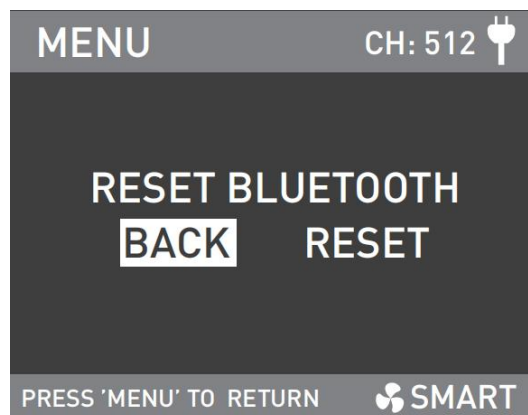


5.1.3. NANLINK APP Control-via Bluetooth

Enter the Bluetooth settings interface: Menu → Wireless Control → Bluetooth Settings.



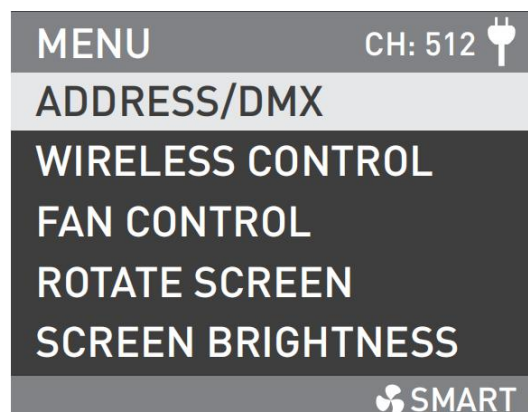
Enter the Bluetooth settings interface to reset Bluetooth.



5.2. Menu

5.2.1. Menu Overview

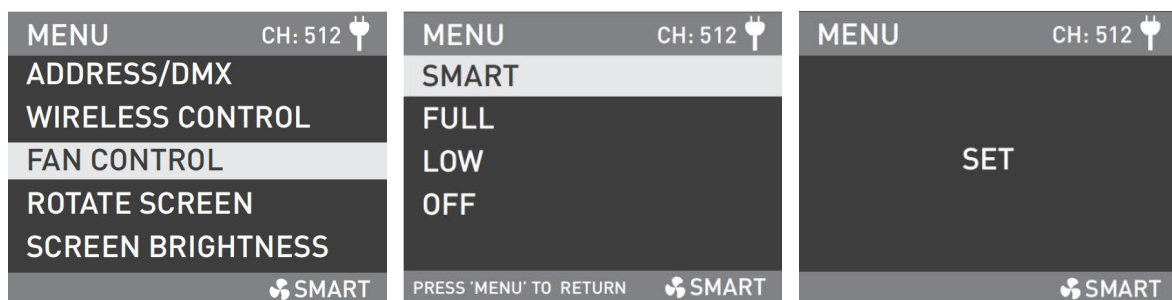
In the menu, there are options including Address/DMX, Wireless Control, Fan Control, Rotate Screen, Screen Brightness, Language, Firmware Update, Reset All Settings and Version.



Level 1	Level 2	Level 3
Address/DMX	Address	/
	DMX Mode	
	DMX Reduced Channels	
	DMX Dimming Curve	
	DMX Smoothing	
Wireless Control	Bluetooth Settings	Reset Bluetooth
Fan Control	Smart	/
	Full Speed	
	Low Speed	
	Off	
Rotate Screen	/	/
Screen Brightness	/	/
Language	/	/
Firmware Update	/	/
Reset All Settings	/	/
Version	/	/

5.2.2. Menu Operation

In the menu, rotate the **right knob** to select an option and press the **right knob** to enter the next level menu. In the level 2 or level 3 menu, press the **MENU button** to return to the previous menu.



5.2.3. Others

(1) Fan Control

When the fan is in Smart or Full Speed mode, the maximum brightness of the fixture is 100%.

When the fan is in Low Speed mode, the maximum brightness of the fixture is 50%.

When the fan is in Off mode, the interior fan will stop working, and the maximum brightness of the fixture is 10%.

(2) Firmware Update

Put the firmware file into the root directory of the USB drive, insert the USB drive into the USB-A port, enter the Menu → Firmware Update, the system will automatically search for the firmware file.

▲ Note: ① Please do not rename the firmware file.

② Ensure the USB drive is formatted to FAT, FAT32 or exFAT.

③ If the instruction "NO FIRMWARE FOUND" is displayed, please check whether the firmware file is correct, whether it is stored in the root directory of the USB drive, and whether the USB drive is formatted as FAT, FAT32 or exFAT.

④ If all the above steps have been completed and the firmware file still cannot be found, please format the USB drive again.

⑤ If the fixture still cannot recognize the USB drive, please replace the USB drive.

5.3. NFC Function

The fixture has a built-in NFC function, allowing it to quickly pair with NFC-enabled devices (with the Nanlink App downloaded), enabling adjustments to DMX control parameters.

6. Troubleshooting for Common Issues

Issues	Troubleshooting Guide
The fixture can't power up.	1. Please check whether the connections between the fixture and power outlet are loose. 2. Please check whether the power source voltage and frequency are within the specified range.
The fixture flickers.	1. Please check whether there are any high-temperature objects nearby that could cause the operating environment temperature to become too high. 2. Please check whether the fixture is in running any special effect.
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 cable is connected correctly and without damage.
The fan doesn't work.	Please turn on the fixture and check whether the fan is in Off mode.

Please scan the QR code for more details.



【DMX Charts】



【Nanlite Website】



【Nanlink App】

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