NANLITE

Forza 720B

USER MANUAL

Forza 720B LED Bi-color Spot Light

▌ Product Diagram

▌ Technical Data

Rated power: 800W

Input: DC48V/16.67A Max
      AC100-240V 50/60Hz
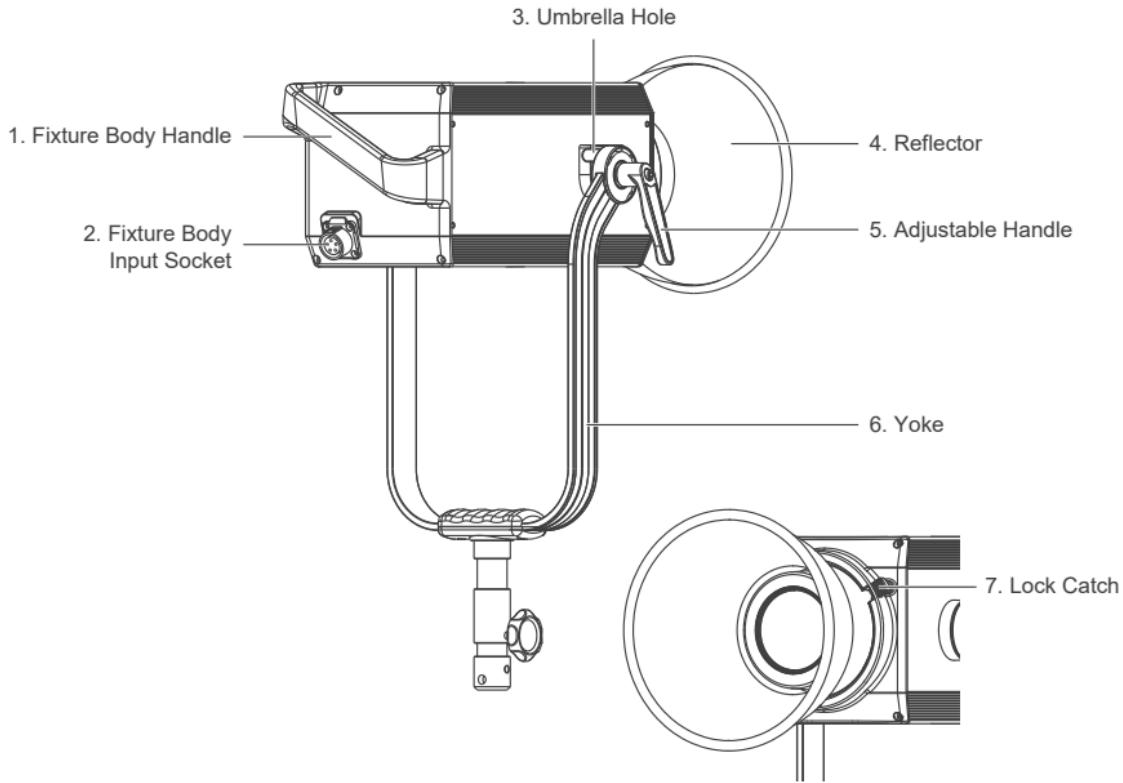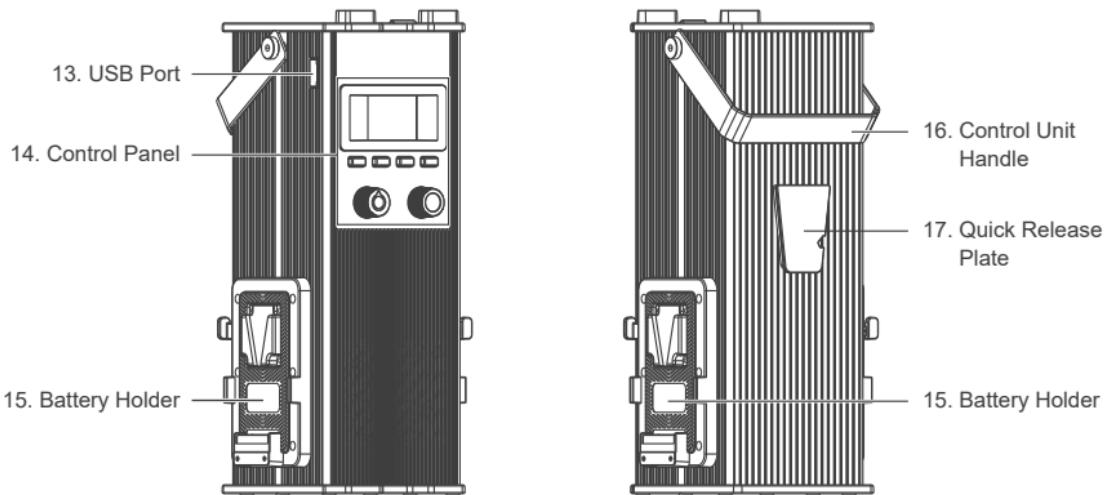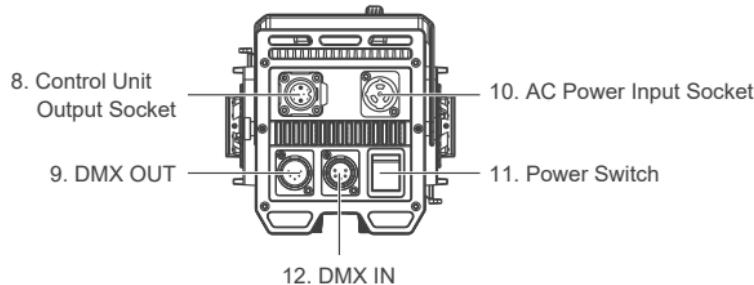
Color Temperature: 2700K-6500K

CRI: average 96

TLCI: average 97

Product Details

3. Umbrella Hole

1. Fixture Body Handle

4. Reflector

2. Fixture Body
Input Socket

5. Adjustable Handle

6. Yoke

7. Lock Catch

8. Control Unit Output Socket

10. AC Power Input Socket

9. DMX OUT

11. Power Switch

12. DMX IN

13. USB Port

14. Control Panel

16. Control Unit Handle

17. Quick Release Plate

15. Battery Holder

15. Battery Holder
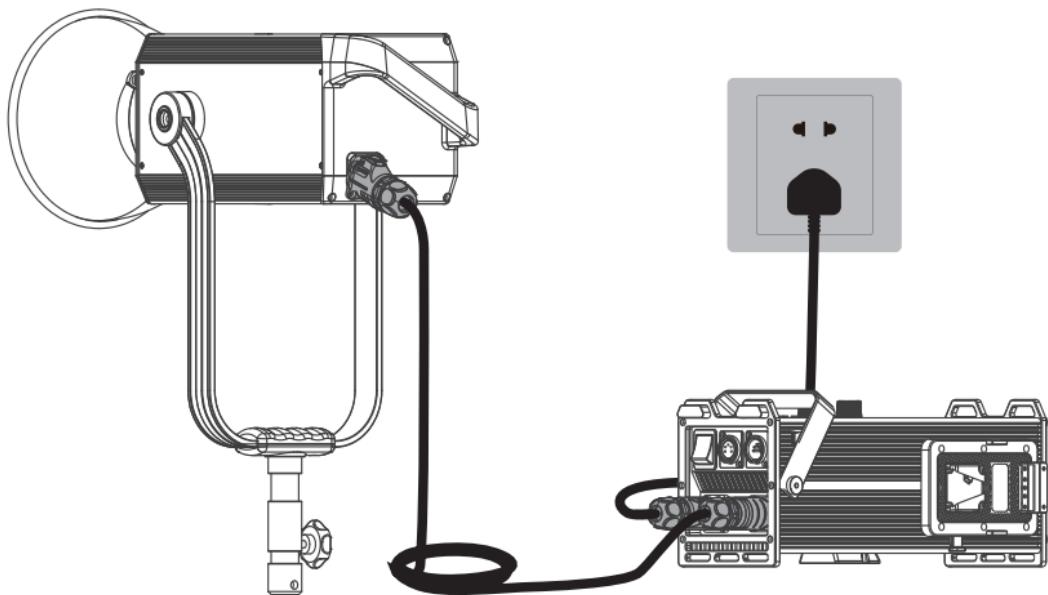
Detailed Description

1. Fixture body handle: For lifting the fixture body and adjusting the direction of the illumination.
2. Fixture body input socket: For connecting the fixture body with control unit.
3. Umbrella hole: For installing/removing an umbrella.
4. Reflector: For concentrating light to improve the central illumination.
5. Adjustable Handle: Tighten or release the tilt movement of the fixture on the yoke.
6. Yoke: For connecting the fixture to the light stand and adjusting the direction of illumination.
7. Lock catch: To lock or release the reflector or other accessories.
8. Control unit output socket: For connecting the DC cable for connecting the fixture body and control unit.
9. DMX OUT: DMX signal output interface.
10. AC power input socket: For connecting the AC power cable to supply power to the control unit.
11. Power switch: To turn on/off the fixture.
12. DMX IN: DMX signal input interface.
13. USB port: For updating the firmware.
14. Control panel: For displaying various function operations and data.
15. Battery holder: For mounting the 14.4-26V/12A V-mount battery.
16. Control unit handle: For lifting the control unit.
17. Quick release plate: For mounting the quick release clamp.
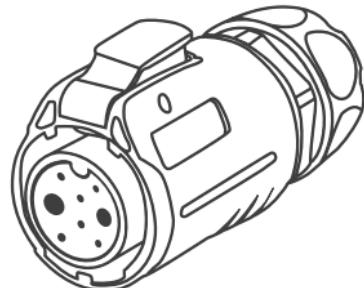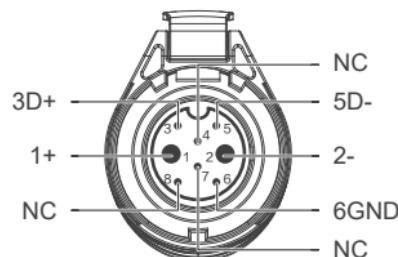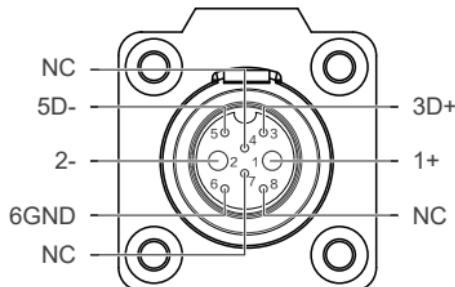
Usage

1. Connection Between the Light Fixture, Control Unit and the Power Outlet.
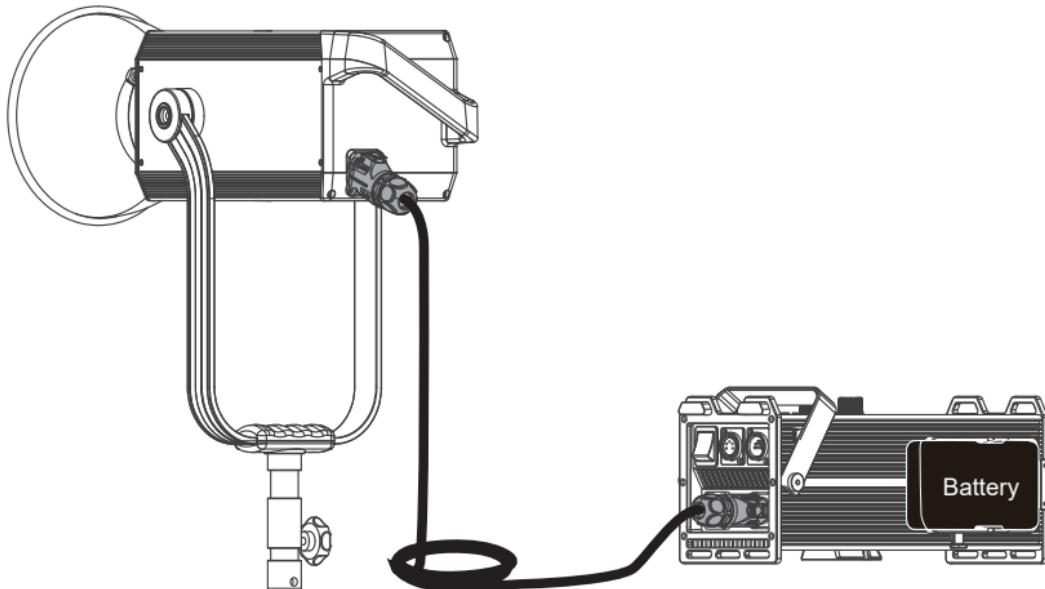
Note:

①When connecting the power supply, please make sure the power, voltage and frequency are consistent with the control unit.

②Make sure to use the provided power cable and DC connecting cable. The connection between the DC plug and the fixture body input socket should be connected as following.

1: Power supply + pole   5: D-
2: Power supply - pole   6: GND
3: D+   7: NC
4: NC   8: NC
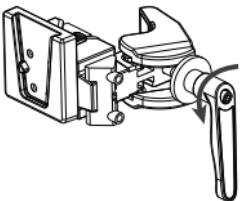
2. Connection Between the Light Fixture and Control Unit with Battery
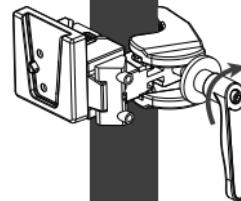
Note:

1. When powered by two 14.8V batteries, the maximum output is 40%.

2. When powered by two 26V batteries, the maximum output is 65%.

3. Do not use the 14.8V and 26V batteries at the same time, or use only one battery of either kind to power the fixture.

4. The batteries are not included and are sold separately.
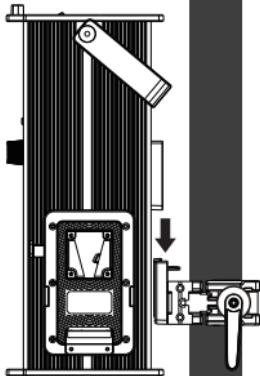
3. Quick Release Clamp Installation
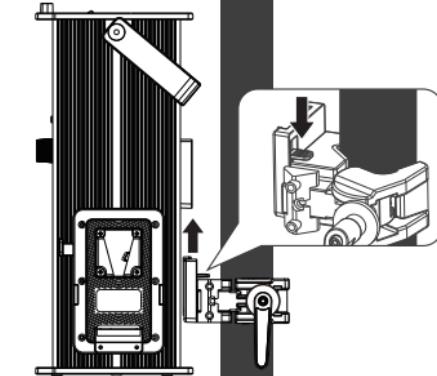
①Rotate the adjustable handle to release the clamp.

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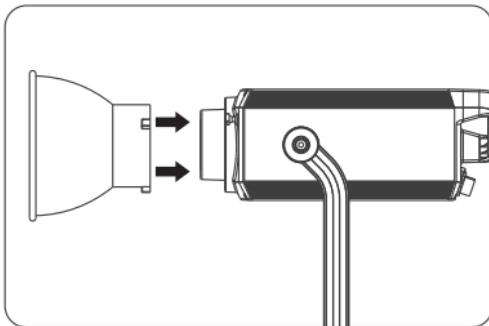

③Align the quick release plate on the control unit with the quick release mount on the clamp, a click sound will be heard when the control unit is fastened in place.
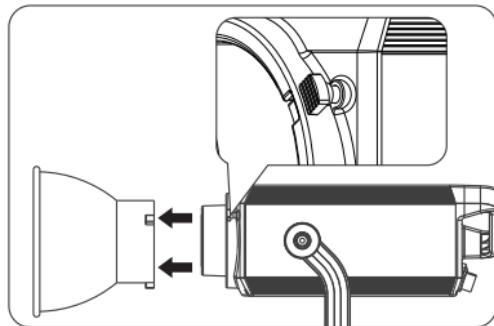

④When removing the control unit, press the lock catch on the clamp and release the control unit from the clamp.

4. Reflector Installation

①Align the reflector to the fixture's Bowens mount, rotate the reflector in the direction shown on the fixture until it clicks into place.

②Press the lock catch and rotate the reflector until it is free to be removed from the fixture.
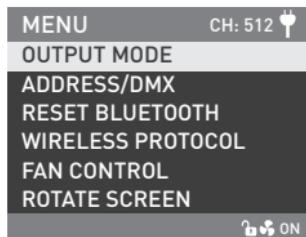
Remote Control

· Forza 720B supports 2.4G remote control, DMX/RDM control, and includes a built-in bluetooth module as well.

▲ Address code need to be pre-set for 2.4G remote control, DMX/RDM control solutions.

1. ADDRESS/DMX, including ADDRESS, DMX MODE and DMX DIMMING CURVE settings.

   ① Address Setting
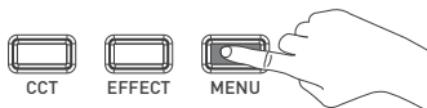
   Press MENU button to access options.

MENU	CH: 512
OUTPUT MODE	
ADDRESS/DMX	
RESET BLUETOOTH	
WIRELESS PROTOCOL	
FAN CONTROL	
ROTATE SCREEN	
	ON

Left knob

Right knob

CCT   EFFECT   MENU
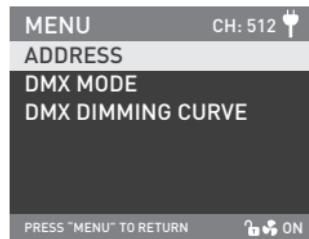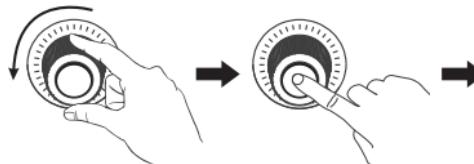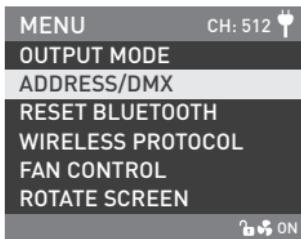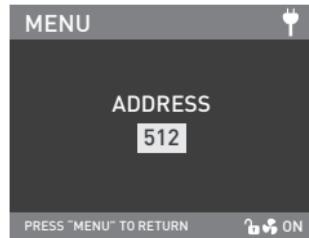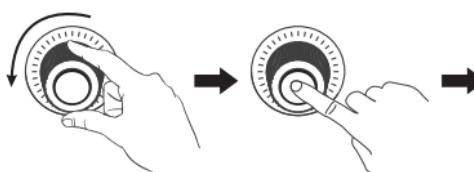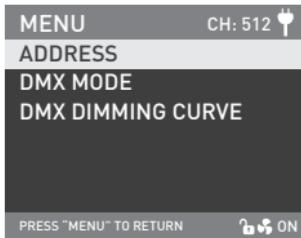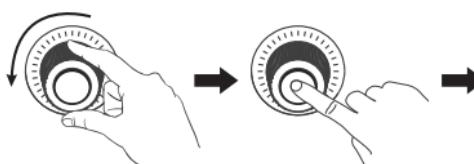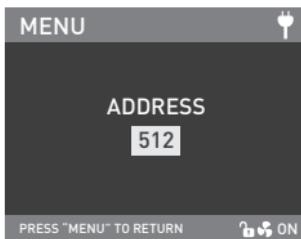
Rotate the "right knob" to ADDRESS/DMX. Press the "right knob" to enter the corresponding secondary menu.
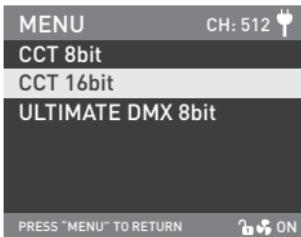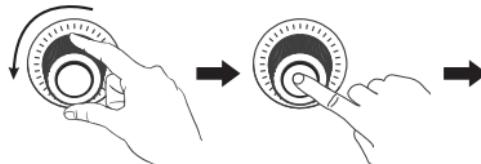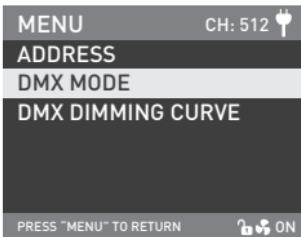
Rotate the "right knob" to ADDRESS. Press the "right knob" to enter the corresponding tertiary.
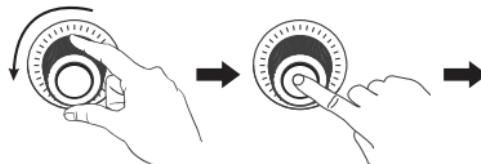

Rotate the "right knob" to select the desired ADDRESS code. Press the "right knob" to set.

2. DMX MODE
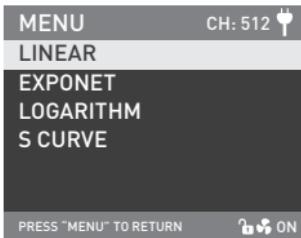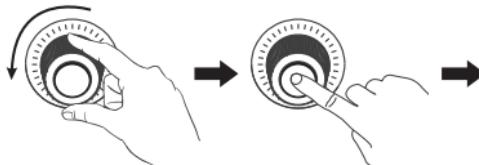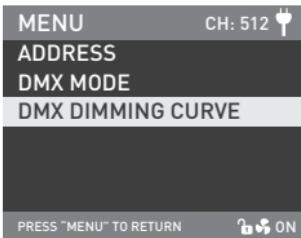
Rotate the "right knob" to DMX MODE. Press the "right knob" to enter the corresponding tertiary menu.
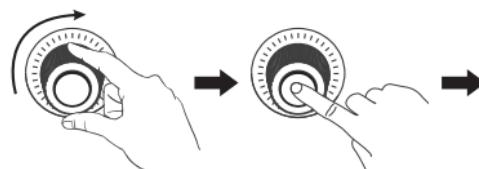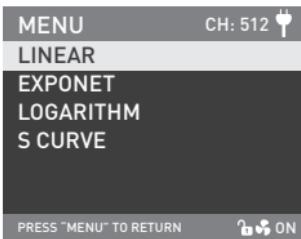

Rotate the "right knob" to select CCT 8bit, CCT 16bit or ULTIMATE DMX 8bit. Press the "right knob" to set.

3. DMX DIMMING CURVE

MENU	CH: 512
ADDRESS	
DMX MODE	
DMX DIMMING CURVE	
PRESS "MENU" TO RETURN	ON

MENU	CH: 512
LINEAR	
EXPONET	
LOGARITHM	
S CURVE	
PRESS "MENU" TO RETURN	ON

Rotate the "right knob" to DMX DIMMING CURVE. Press the "right knob" to enter the corresponding tertiary menu.

MENU	CH: 512
LINEAR	
EXPONET	
LOGARITHM	
S CURVE	
PRESS "MENU" TO RETURN	ON

MENU	CH: 512
SET	
PRESS "MENU" TO RETURN	ON

Rotate the "right knob" to select LINEAR, EXPONENT, LOGARITHM or S CURVE. Press the "right knob" to set.

2. DMX Remote Control
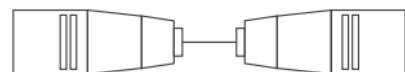
①Connect the fixture to the DMX/RDM consoles via DMX cable as shown below:

DMX IN

GND 1
DATA- 2
DATA+ 3
NC
NC

DMX OUT

NC
NC
1 GND
2 DATA-
3 DATA+

· 5-pin shielded cable with a diameter not less than 0.3mm must be used for connection between light fixture and DMX/RDM console, or between light fixture and light fixture. XLR plug/socket and the cable should be connected as shown above.

· Pin1, Pin2, Pin3 for connecting DMX signal. Pin4, Pin5 has no connection.
　▲NOTE: When connecting DMX, make sure the internal pin is not in contact with the inner case. The fixture can match the DMX512 (1990) control signal.

· 5-pin and 3-pin XLR plug/socket conversion, the fixture comes with 5-pin XLR plug/socket. If a 3-pin XLR plug is used, please follow the instruction below.
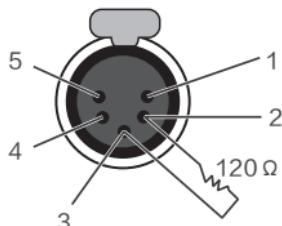
| 5PIN	3PIN
Pin 1:GND(SCREEN)	Pin 1:GND(SCREEN)
Pin 2:Signal(-)	Pin 2:Signal(-)
Pin 3:Signal(+)	Pin 3:Signal(+)
Pin 4:N/C	
Pin 5:N/C	
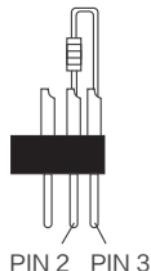
②DMX Terminator

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 unit.

PIN 2   PIN 3

③Address Setting of the Light Fixtutre.

④Refer to the DMX reference guide and control the light via DMX/RDM console.

(For detailed operation please refer to the DMX/RDM console operation manual.)
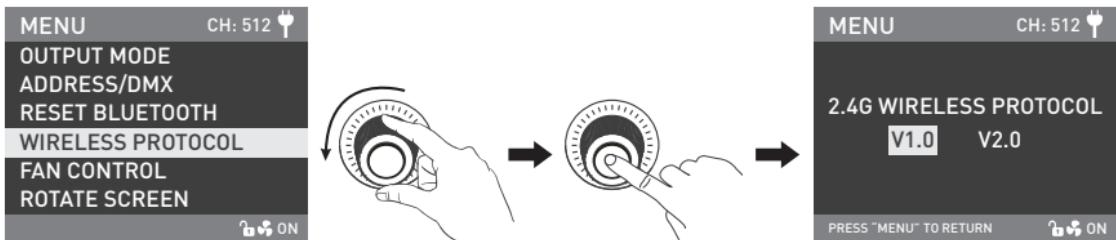
Note: DMX reference guide "Forza_720B_DMX_REFERENCE_GUIDE_EN" is downloadable from www.nanlite.com.

3. 2.4G Remote Control
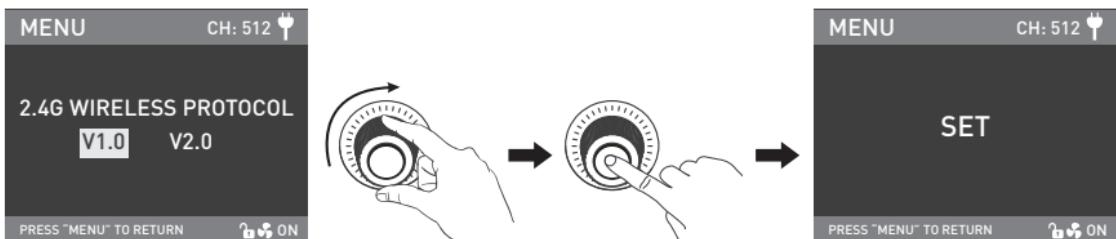
· Set the address of the 2.4G remote controller to be consistent with the light fixture, enabling the fixture to be remotely controlled by 2.4G remote controller or by APP via the transmitter box.

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.

Rotate the "right knob" to WIRELESS PROTOCOL, press the "right knob" to enter the corresponding secondary menu.
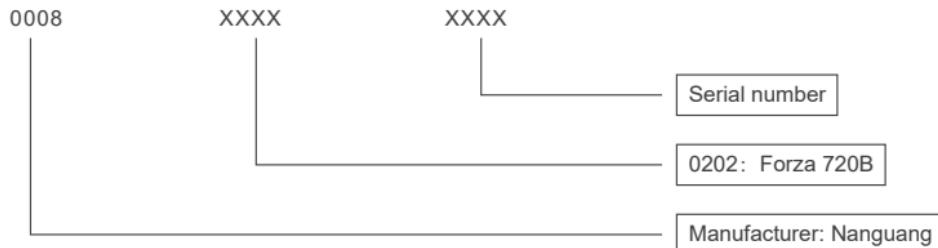

Rotate the "right knob" to select V1.0 or V2.0, press the "right knob" to set.

4. RDM Remote Control

①Connect the light fixture to the console with RDM function by using a connection cable, the connection method is the same as that with a DMX/RDM console.
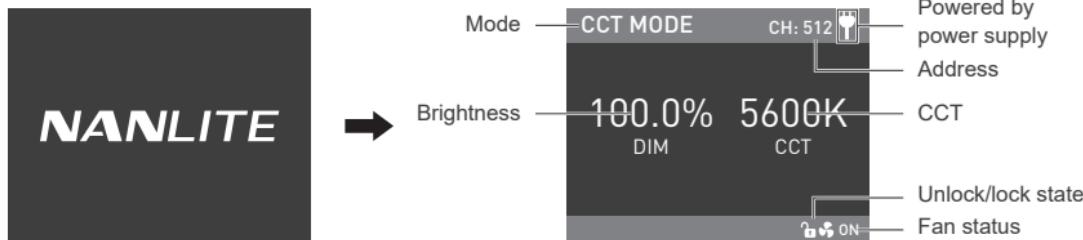
②Control the fixture via a console with RDM function. (For specific operation methods, please refer to the RDM console operation manual.)

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

```
0008            XXXX            XXXX
```

Serial number

0202：Forza 720B

Manufacturer: Nanguang
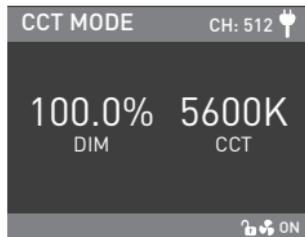
Operating Instructions

1. Be sure that the power switch of the control unit is in the "off ". Now it is safe to connect the control unit and power the unit on, the screen will display "NANLITE".

NANLITE →

Mode ——— CCT MODE   CH: 512

Brightness ——— 100.0% 5600K
                DIM   CCT

Powered by power supply

Address

CCT

Unlock/lock state

Fan status

2.CCT button: press the CCT button to enter the CCT mode.
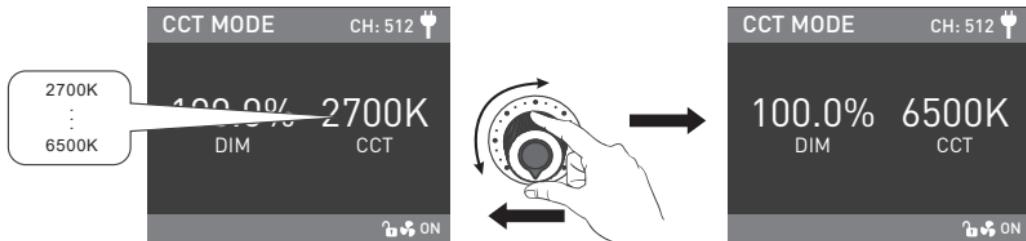
①Brightness setting, rotate the "left knob" clockwise to increase the brightness while counterclockwise to reduce the brightness, the screen will show the percentage of brightness, DIM range: 0.0-100.0%.
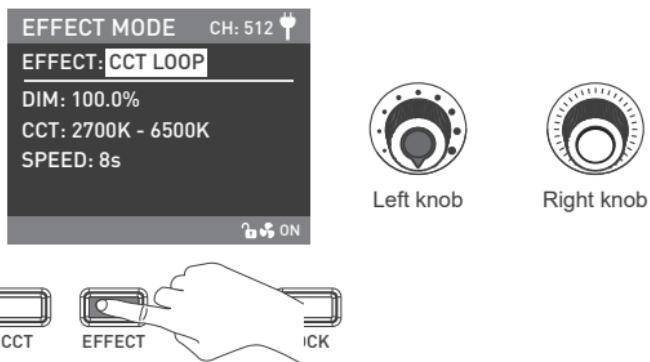

Note: In other modes, the DIM adjustment range is the same as that in CCT mode. When the fixture function is unlocked, in any mode, press the "left knob" to turn off the fixture, the brightness percentage indicated on the screen will be 0.0%. Press again to restore the fixture to its previous state, and press continuously to switch the fixture between on and off.

②CCT setting, rotate the "right knob" clockwise to increase the CCT while counterclockwise to reduce the CCT, the CCT is shown on the screen, CCT range: 2700K-6500K.

CCT MODE	CH: 512

2700K
⋮
6500K

100.0% 2700K
DIM   CCT

ON

CCT MODE	CH: 512

100.0% 6500K
DIM   CCT

ON
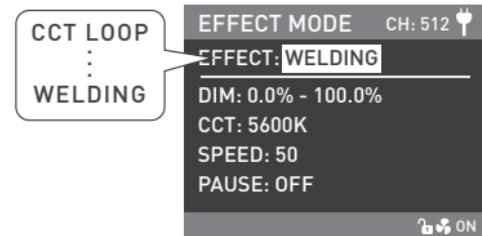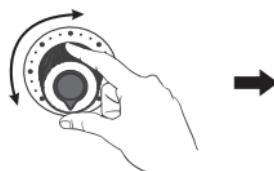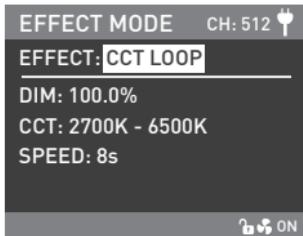
Note: Press the the "right knob" could quickly switch to 2700K, 3200K, 4300K, 5600K, 6500K.
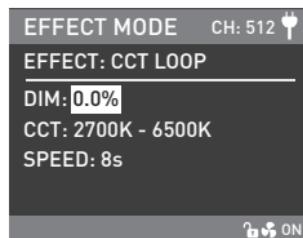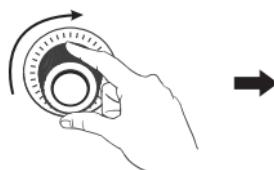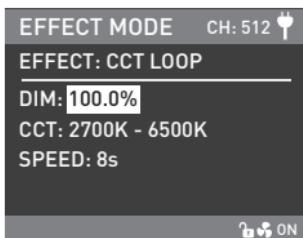
3. EFFECT Button: Press the EFFECT button to enter EFFECT MODE.

EFFECT MODE	CH: 512

EFFECT: CCT LOOP

DIM: 100.0%
CCT: 2700K - 6500K
SPEED: 8s

ON

Left knob   Right knob

CCT   EFFECT   ICK
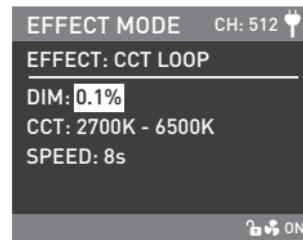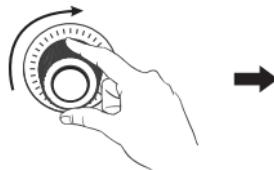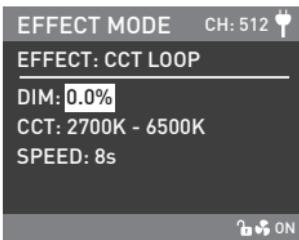
· Forza 720B has built-in effects including CCT LOOP, INT LOOP, FLASH, PULSE,   STORM AUTO, STORM MANUAL, TV, PAPARAZZI, CANDLE/FIRE, BAD BULB, FIREWORK, EXPLOSION AUTO, EXPLOSION MANUAL and WELDING.

EFFECT MODE	CH: 512
EFFECT: CCT LOOP	
DIM: 100.0%	
CCT: 2700K – 6500K	
SPEED: 8s	
	ON

CCT LOOP
:
WELDING

EFFECT MODE	CH: 512
EFFECT: WELDING	
DIM: 0.0% – 100.0%	
CCT: 5600K	
SPEED: 50	
PAUSE: OFF	
	ON

Rotate the "left knob" to select the EFFECT.

EFFECT MODE	CH: 512
EFFECT: CCT LOOP	
DIM: 100.0%	
CCT: 2700K – 6500K	
SPEED: 8s	
	ON

EFFECT MODE	CH: 512
EFFECT: CCT LOOP	
DIM: 0.0%	
CCT: 2700K – 6500K	
SPEED: 8s	
	ON

Rotate the "right knob" to set the corresponding parameters under the effects.
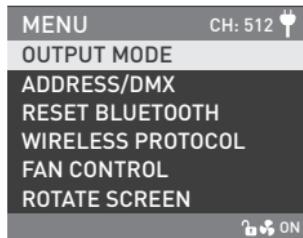
Rotate the "left knob" to set the corresponding parameters.

Note: ①All the effects are set in same method.
　　　②When setting the STORM AUTO and EXPLOSION AOTO, need to press the "right knob" to trigger the effect.
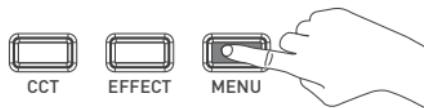
4. MENU: Press the MENU button to enter the menu.

Left knob　　　Right knob

CCT　　EFFECT　　MENU
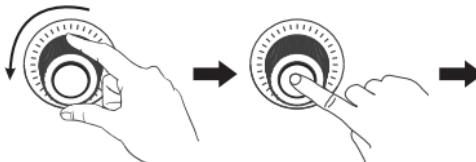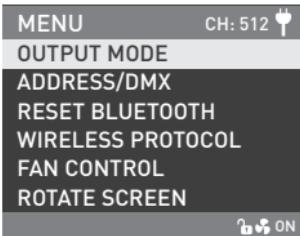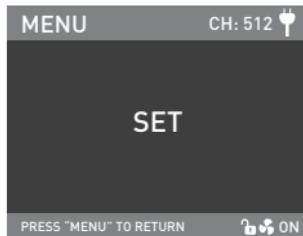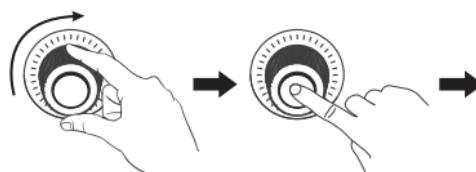
· Rotate the "right knob" to select the setting items and press the "right knob" to enter the corresponding secondary menu. Then rotate the "right knob" again to select corresponding options and press the "right knob" to set. Press the MENU button to return to the previous menu.

①OUTPUT MODE

MENU	CH: 512 🔌
OUTPUT MODE	
ADDRESS/DMX	
RESET BLUETOOTH	
WIRELESS PROTOCOL	
FAN CONTROL	
ROTATE SCREEN	
	🔒🔀 ON

MENU	CH: 512 🔌
MAX OUTPUT	
CONSTANT OUTPUT	
PRESS "MENU" TO RETURN	🔒🔀 ON

Rotate the "right knob" to OUTPUT MODE, press the "right knob" to enter the corresponding secondary menu.

MENU	CH: 512 🔌
MAX OUTPUT	
CONSTANT OUTPUT	
PRESS "MENU" TO RETURN	🔒🔀 ON

MENU	CH: 512 🔌
SET	
PRESS "MENU" TO RETURN	🔒🔀 ON
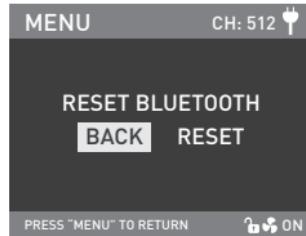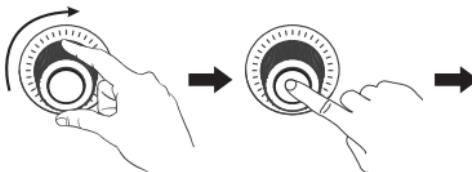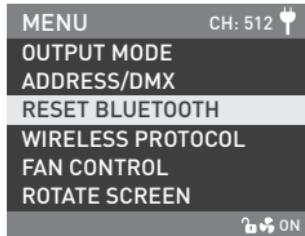
Rotate the "right knob" to select the MAX OUTPUT or CONSTANT OUTPUT, and press the "right knob" to set.
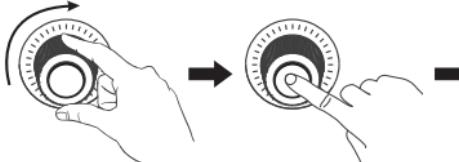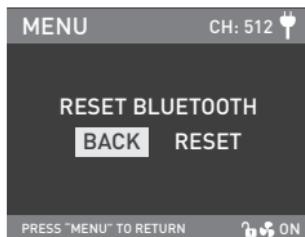
②ADDRESS/DMX

    For more operation details please refer to P10.

③RESET BLUETOOTH

Rotate the "right knob" to RESET BLUETOOTH. Press the "right knob" to enter the corresponding tertiary menu.
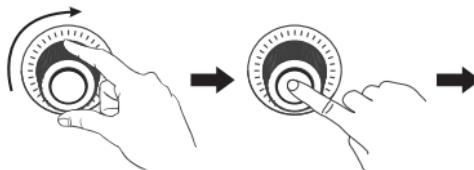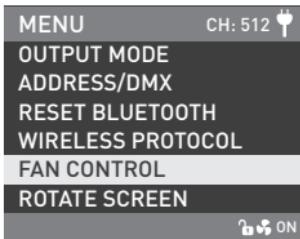
Rotate the "right knob" to select RESET. Press the "right knob" to set.
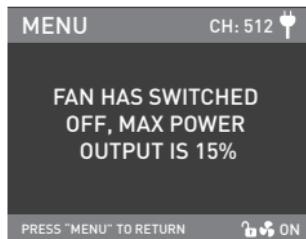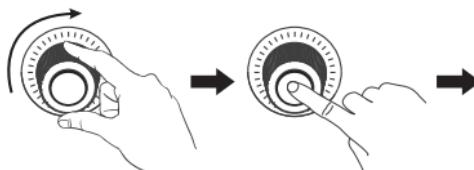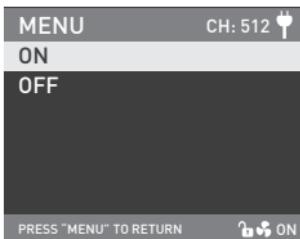
④WIRELESS PROTOCOL

   For more operation details please refer to P16.

⑤FAN CONTROL

MENU	CH: 512
OUTPUT MODE	
ADDRESS/DMX	
RESET BLUETOOTH	
WIRELESS PROTOCOL	
FAN CONTROL	
ROTATE SCREEN	
	ON

| MENU	CH: 512
ON	
OFF	
PRESS "MENU" TO RETURN	ON
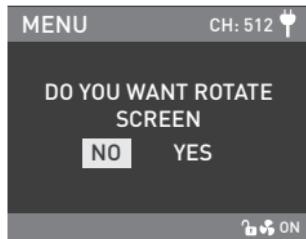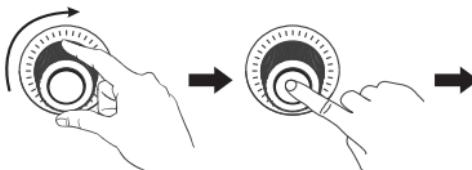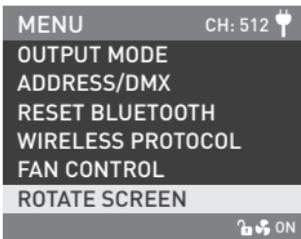
Rotate the "right knob" to FAN CONTROL. Press the "right knob" to enter the corresponding secondary menu.

MENU	CH: 512
ON	
OFF	
PRESS "MENU" TO RETURN	ON

MENU	CH: 512
FAN HAS SWITCHED OFF, MAX POWER OUTPUT IS 15%	
PRESS "MENU" TO RETURN	ON
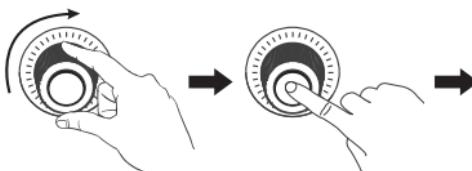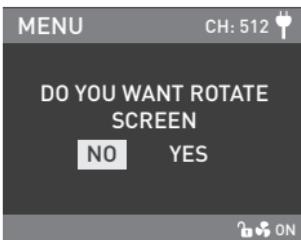
Rotate the "right knob" to select the fan ON or OFF. Press the "right knob" to set.

Note: 1. The maximum output is 100% when the fan is on.
2. The maximum output is 15% when the fan is off.

⑥ROTATE SCREEN
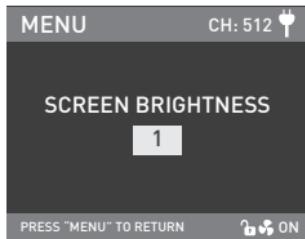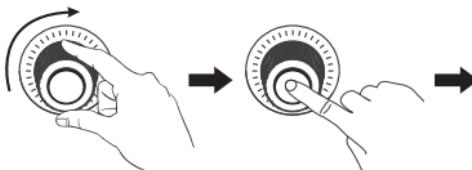
Rotate the "right knob" to ROTATE SCREEN. Press the "right knob" to enter the corresponding secondary menu.
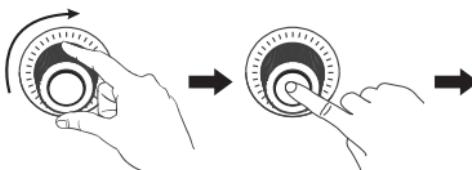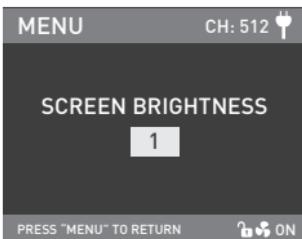
Rotate the "right knob" to select YES or NO. Press the "right knob" to set.

⑦SCREEN BRIGHTNESS
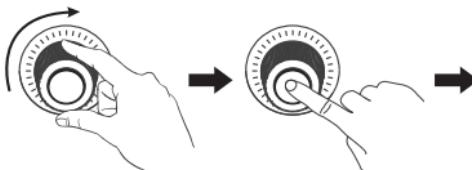
Rotate the "right knob" to SCREEN BRIGHTNESS. Press the "right knob" to enter the corresponding secondary menu.
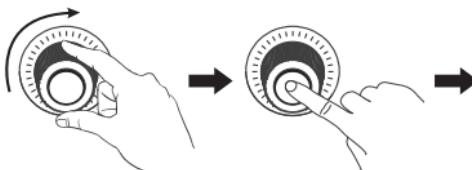

Rotate the "right knob" to select the screen brightness. Press the "right knob" to set.

⑧BUTTON BACKLIGHT
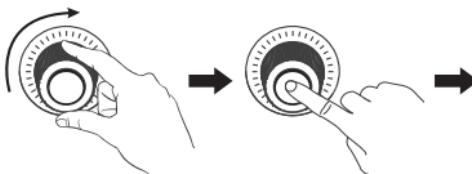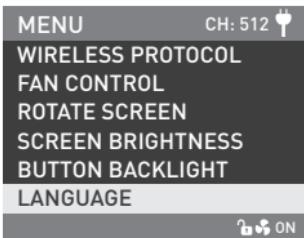
Rotate the "right knob" to BUTTON BACKLIGHT. Press the "right knob" to enter the corresponding secondary menu.
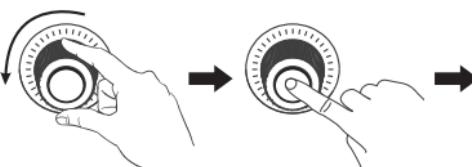
Rotate the "right knob" to select ON or OFF. Press the the "right knob" to set.

⑨LANGUAGE

| MENU	CH: 512
WIRELESS PROTOCOL	
FAN CONTROL	
ROTATE SCREEN	
SCREEN BRIGHTNESS	
BUTTON BACKLIGHT	
LANGUAGE	ON

MENU	CH: 512
ENGLISH	
简体中文	
PRESS "MENU" TO RETURN	ON
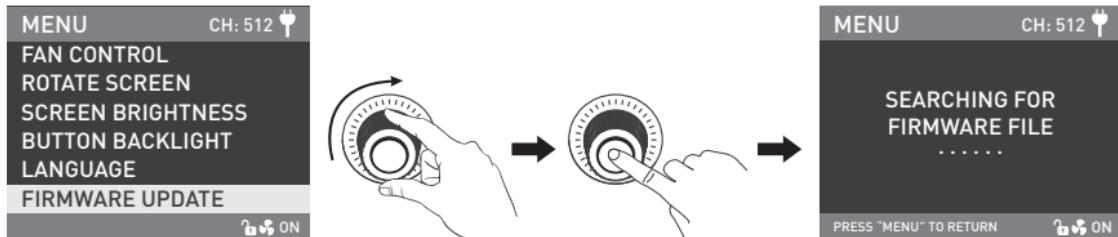
Rotate the "right knob" to LANGUAGE. Press the "right knob" to enter the corresponding secondary menu.

MENU	CH: 512
ENGLISH	
简体中文	
PRESS "MENU" TO RETURN	ON

MENU	CH: 512
已设置	
PRESS "MENU" TO RETURN	ON

Rotate the "right knob" to select the ENGLISH or 简体中文. Press the "right knob" to set.

⑩FIRMWARE UPDATE
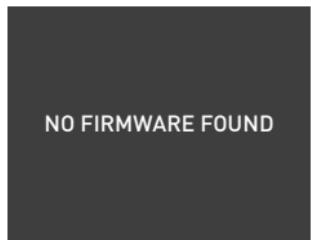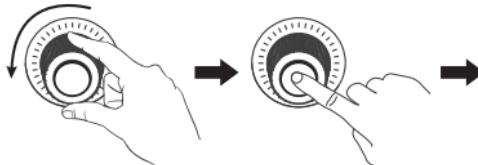
· Download the firmware files of light fixture and control unit, and put into the root directory of the USB drive(ensure the firmware versions match), and connect the USB drive to the USB port.

Rotate the "right knob" to "FIRMWARE UPDATE", press the "right knob" to enter the interface to search for the firmware files.
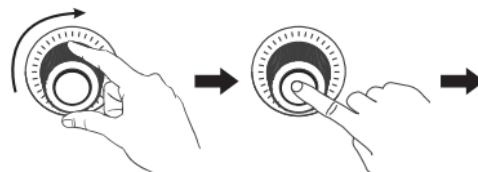
Note:
(1)Please do not rename the updated file.
(2)Ensure the USB flash drive is formatted to FAT, FAT32 or exFAT.
(3)If prompted that "PLEASE CONNECT THE LAMP HEAD TO THE CONTROLLER BEFORE FIRMWARE UPDATE", please check whether the light fixture is connected to the control unit or whether the connection is loose.
(4)If prompted that "THE VERSIONS OF THE TWO FIRMWARE FILES DON'T MATCH, PLEASE CHECK THE FILES AND TRY AGAIN", please check whether the versions of the two firmware files are consistent.
(5)If prompted that "MISSING PARTS OF FIRMWARE FILES,PLEASE CHECK THE FILES AND TRY AGAIN", please check whether there are two firmware files in the USB drive.
(6)If prompted that "NO FIRMWARE FOUND", please check whether the firmware files are correct, whether the firmware files are stored in the root directory of the USB drive, or whether the USB drive format is FAT, FAT32 or exFAT.
(7)If all the above steps are done and the firmware files still cannot be found, try to format the USB flash drive again.
(8)If the light fixture still cannot identify the USB flash drive, please replace the USB flash drive.
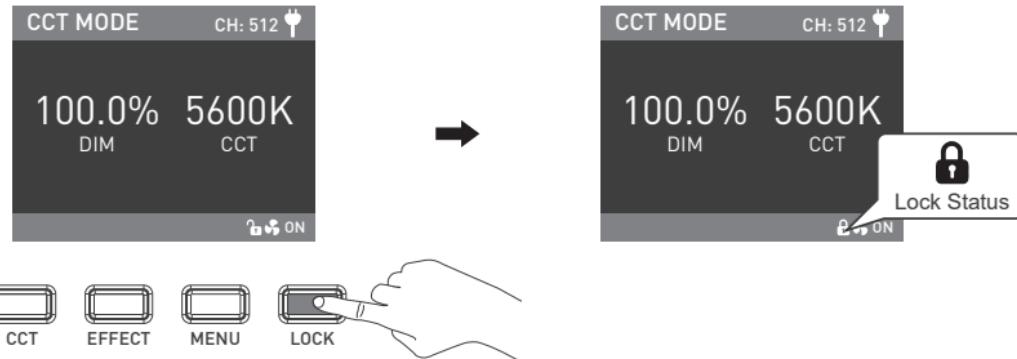
After finding the firmware file, enter the firmware update selection interface, rotate the "right knob" to select the "UPDATE", and press the "right knob" to make update. After update, the light fixture will automatically restart.

⑪VERSION

Rotate the "right knob" to VERSION, and press "right knob" to check the current version.

5. LOCK button: Press and hold the LOCK button to lock all functions. Operation buttons or adjustment knobs can not change the current function. Press and hold the LOCK button again to release the Lock status.

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

Safety Precautions

1. Please check for possible damage caused in transit after opening the package. Please do not use if damage is found. And contact with the distributor or manufacturer as soon as possible.
2. Please do not use a power cable with damaged insulation. Please do not unplug too hard or drag the power cable directly.
3. Please make sure the voltage of power supply accords with the voltage specified on the fixture before installation.
4. Please turn the fixture off when it is not in use or before cleaning.
5. Please keep the fixture safely stored and away from children.
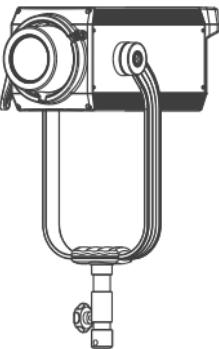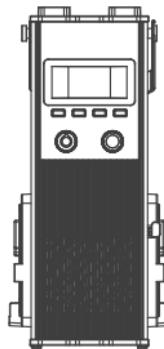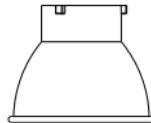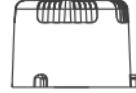
Notice

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 do not place the fixture near any flammables and explosives.
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 at will to repair by yourself. Qualified professionals should conduct maintenance under the condition of strictly following the operating procedures described in this manual.
9. Please do not cover the vents when using, to avoid affecting heat dissipation, and resulting in damage. Please pay attention to anti-scald when using the fixture for a long time, since the surface temperature of fixture will be high.
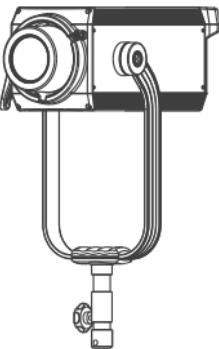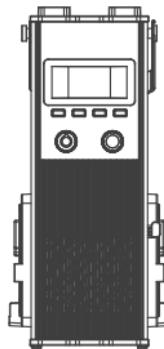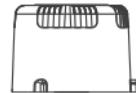
▎General Fault Detection and Diagnosis

| Fault Detection	Diagnosis
The light won't boot up properly	1. Please check whether the connection between control unit and cable or fixture are loose. 2. Please check whether the voltage value is within the specified parameters.
The fixture can be operated manually, but DMX control is not working.	1. Please check whether the DMX address code setting of the fixture is correct. 2. Please check whether the DMX signal cable is connected correctly and without damaged.
LCD display is on, but fixture cannot be operated.	Please check if the LCD display shows "🔒". Press and hold the LOCK button for 2s to unlock.
The fan doesn't work.	1. Please check if the fan is OFF. 2. If the screen dispays "Fan abnormal", please contact with place of purchase or supplier for purchase or replacement.
If the failure is not resolved after troubleshooting, please contact with distributor or manufacturer for maintenance.	

What's in the box? Please kindly check:

Forza 720B×1	Control Unit×1	Power Cable×1	Connecting Cable×1
		Quick Release Clamp×1	Reflector×1
Carrying Bag×1	COB Protective Cap×1	DMX Reference Guide×1	User Manual×1

Forza 720B Kit-ST

Forza 720B×1	Control Unit×1	Power Cable×1	Connecting Cable×1
		Quick Release Clamp×1	Reflector×1
Trolley Case×1	COB Protective Cap×1	DMX Reference Guide×1	User Manual×1

This manual has been compiled according to the rigorous testing for Nanlite products. Product designs are subject to change without prior notice. The latest version of the manual for this product is downloadable at www.nanlite.com.

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