NANLITE

Forza 720B

USER MANUAL

Forza 720B LED Bi-color Spot Light

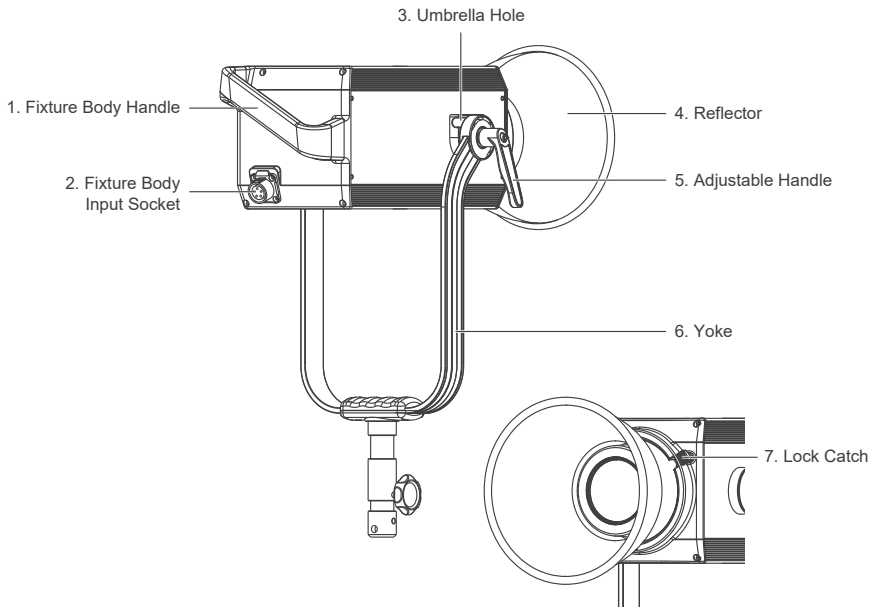## ▍Product Diagram
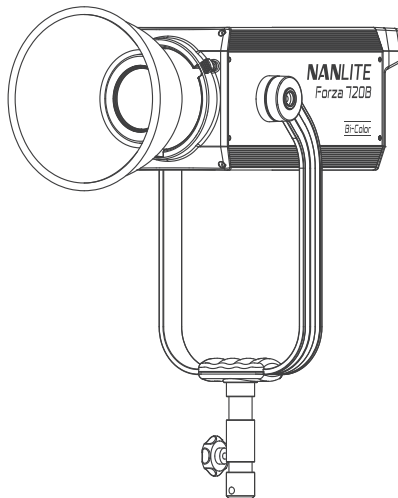
▍Technical Data

Rated power: 800W

Input voltage/current: DC48V/16.67A Max
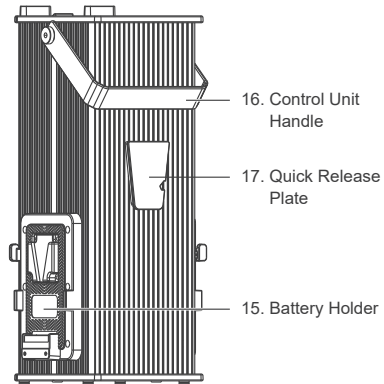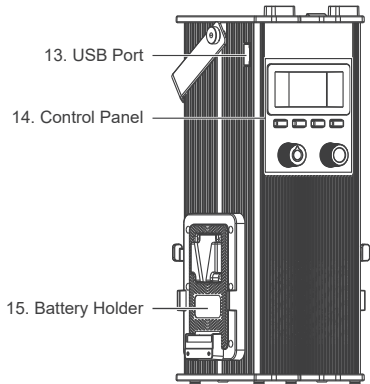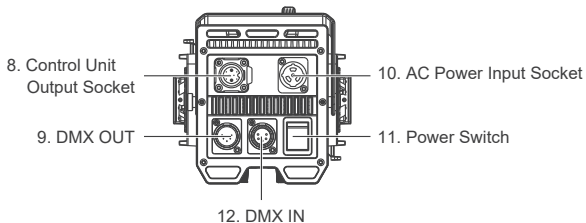　　　　　　　　　　　AC100-240V 50/60Hz

Color Temperature: 2700K-6500K

CRI: average 96

TLCI: average 97

Product Details

1. Fixture Body Handle

2. Fixture Body
   Input Socket

3. Umbrella Hole

4. Reflector

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

15. Battery Holder

16. Control Unit Handle

17. Quick Release Plate

15. Battery Holder

▐ Detailed Description

1. Fixture body handle: Be convenient for users to lift the lamp head and adjust the diection of the light.
2. Fixture body input socket: For connecting the lamp head 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: Mount the fixture on a stand, pan and tilt.
7. Lock catch: To lock or release the reflector or other accessories.
8. Control unit output socket: To connect a DC cable for connecting between the lamp head 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 14.8V/12A V-mount battery.
16. Control unit handle: Be convenient for users to lift 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.
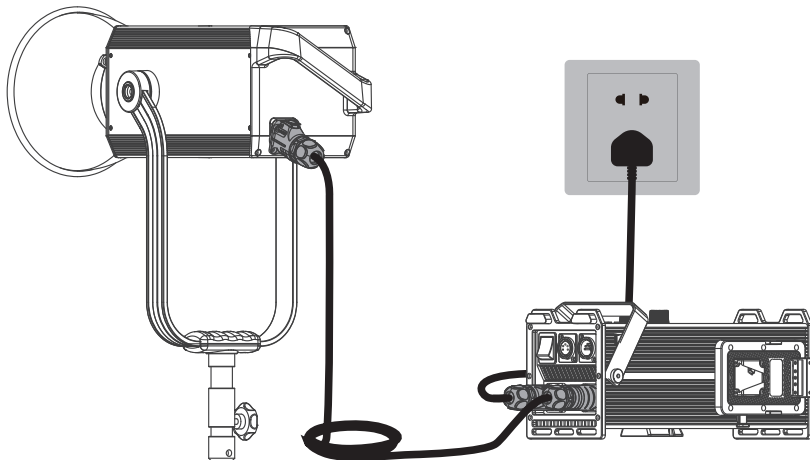
Note:

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.

NC		NC
5D-		5D-
2-		2-
6GND		6GND
NC		NC

3D+   1+   NC

3D+   1+   NC
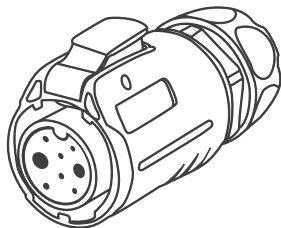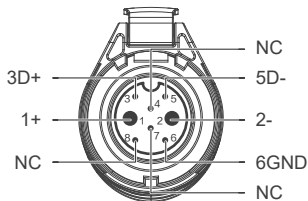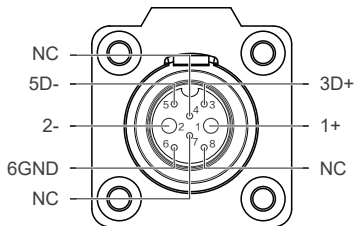
1: Power supply + pole   5: D-
2: Power supply - pole   6: GND
3: D+   7: NC
4: NC   8: NC

2. Connection Between the Light Fixture and Control Unit with Battery
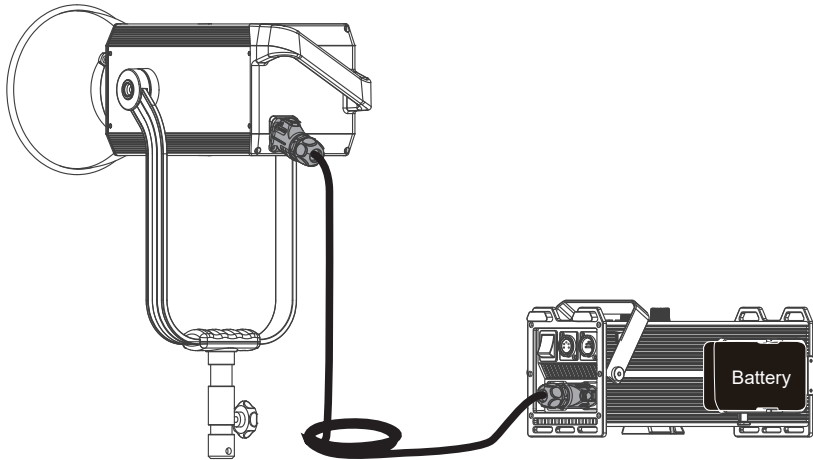
Note:

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.

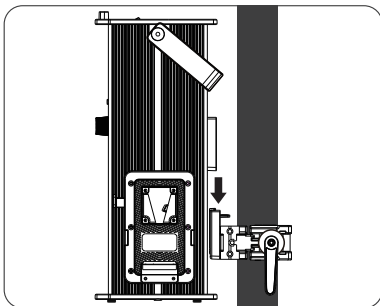4. The batteries are not included and are sold separately.
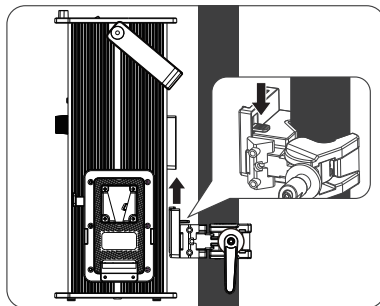
3. Quick Release Clamp Installation
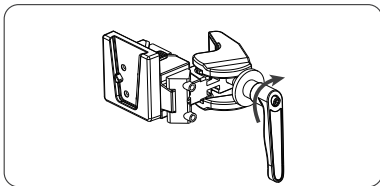
1. Loosen the adjustable handle to open the clamp.
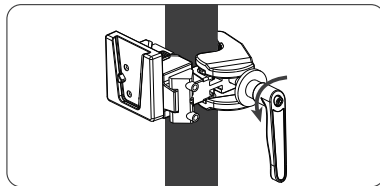
2. Mount the quick release clamp on the light stand, then rotate the adjustable handle to tighten the clamp.
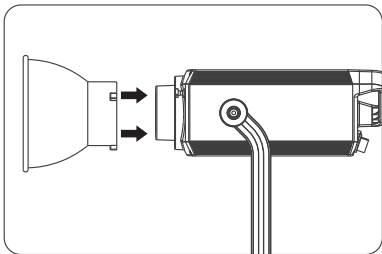

3. Align the quick release plate on the control unit with the quick release mount on the clamp to mount the control unit on to the clamp.
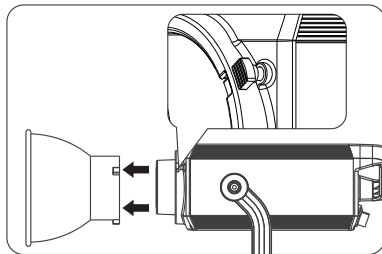

4. When removing the control unit, press the lock catch on the clamp and release the control unit from the clamp.

4. Reflector Installation

1. Align the reflector with the mount and rotate according to the lock catch sign to secure it into the fixture.

2. Press the lock catch and rotate the reflector according to the sign to release it from the fixture.
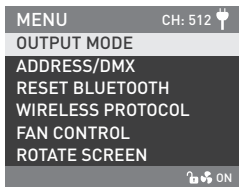
▍Remote Control

· 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.
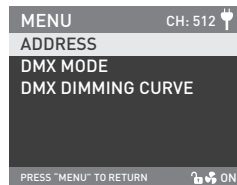
①Address Setting

Press MENU button to access options.
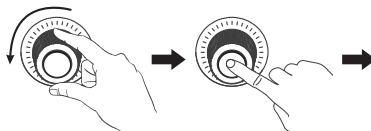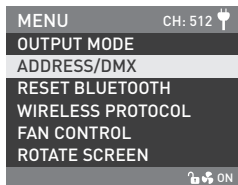

MENU	CH: 512 🔌
OUTPUT MODE	
ADDRESS/DMX	
RESET BLUETOOTH	
WIRELESS PROTOCOL	
FAN CONTROL	
ROTATE SCREEN	
🔒🌀 ON	

Left knob   Right knob

CCT   EFFECT   MENU

Rotate "Right knob" to ADDRESS/DMX. Press "Right knob" to enter the corresponding sencondary menu.
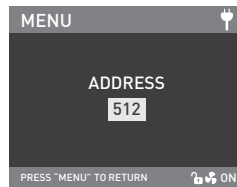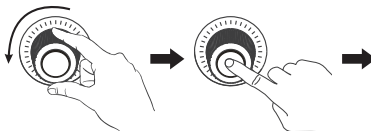
Rotate "Right knob" to ADDRESS. Press "Right knob" to enter the corresponding third menu.

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

2. DMX MODE

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

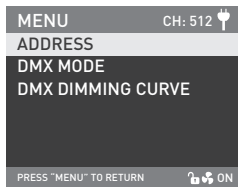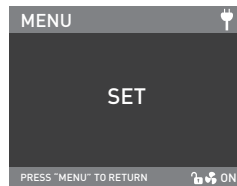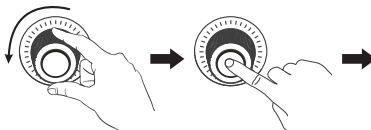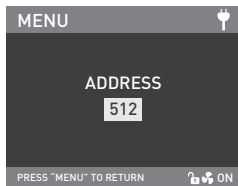| MENU	CH: 512
CCT 8bit	
CCT 16bit	
ULTIMATE DMX 8bit	
PRESS "MENU" TO RETURN	ON
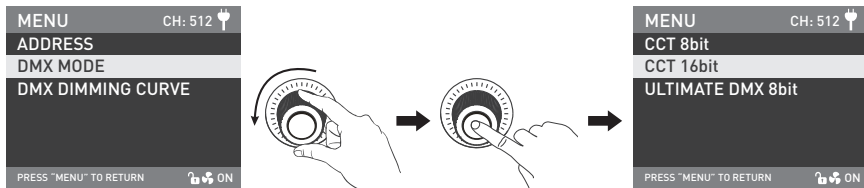
Rotate "Right knob" to DMX MODE. Press "Right knob" to enter the corresponding third menu.

MENU	CH: 512
CCT 8bit	
CCT 16bit	
ULTIMATE DMX 8bit	
PRESS "MENU" TO RETURN	ON

MENU	CH: 512
SET	
PRESS "MENU" TO RETURN	ON
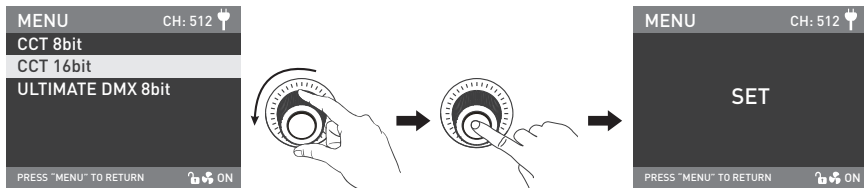
Rotate "Right knob" to select the corresponding DMX mode. Press "Right knob" to set.

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
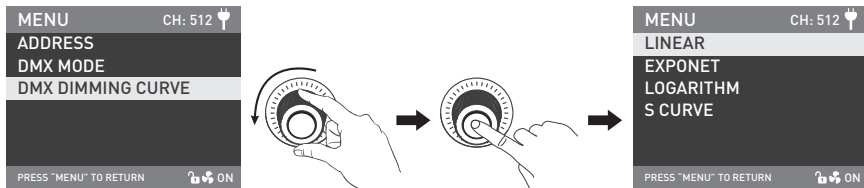
Rotate "Right knob" to DMX DIMMING CURVE. Press "Right knob" to enter the corresponding third menu.

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

MENU	CH: 512
SET	
PRESS "MENU" TO RETURN	ON
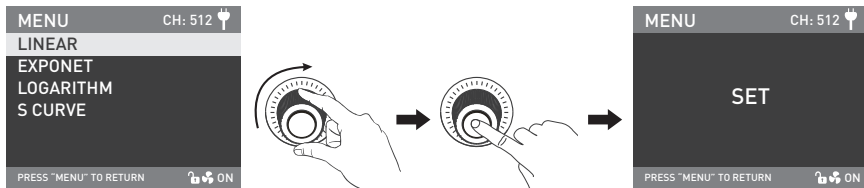
Rotate "Right knob" to select the corresponding DMX dimming curve. Press "Right knob" to set.

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+

· The connection between light fixtures, or light fixture and DMX/RDM console, must use five core shielded cable. Make sure its diameter is not less than 0.3mm. XLR plug/socket and the wire 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.

· Plug of 5-Pin and 3-Pin XLR plug/socket conversion. The fixture is supplied with 5-Pin XLR plug. If using a 3-Pin XLR plug, please follow the instructions 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	
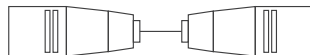
②DMX Terminator

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.

5
1
2
4
120 Ω
3
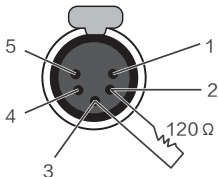
DMX Terminator Connection
Connect a 120Ω(OHM) resistor across Pin 2 and Pin 3 in an XLR plug and insert into the DMX OUT socket on the last unit.

PIN 2   PIN 3
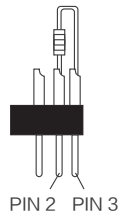
③Address Setting of the Light Fixtutre.

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.
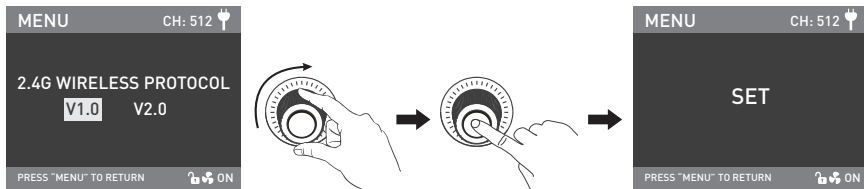
3. 2.4G Remote Control

· 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.
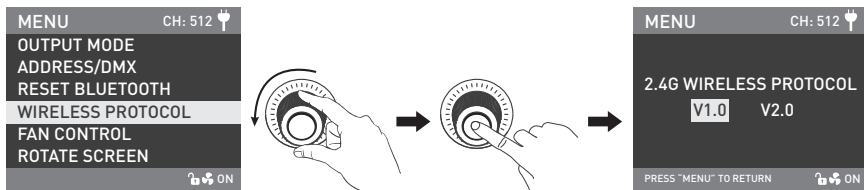
Rotate "Right knob" to WIRELESS PROTOCOL, press "Right knob" to enter the corresponding sencondary menu.


Rotate "Right knob" to select V1.0 or V2.0, press "Right knob" to set.
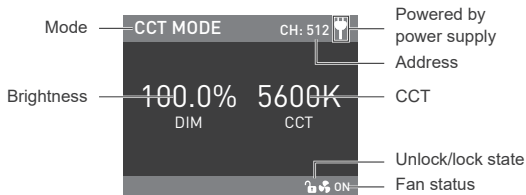
4. RDM Remote Control

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.)

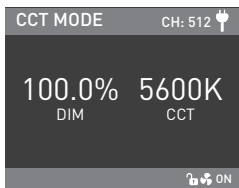Note: The UID format of the fixture is as follows:

0008	XXXX	XXXX

Serial number

0202：Forza 720B

Manufacturer: Nanguang
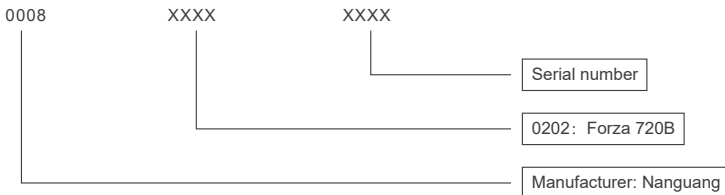
▌**Operating Instructions**

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".

Mode —— CCT MODE   CH: 512

Brightness —— 100.0%   5600K
                DIM   CCT

Powered by power supply
Address
CCT
Unlock/lock state
Fan status
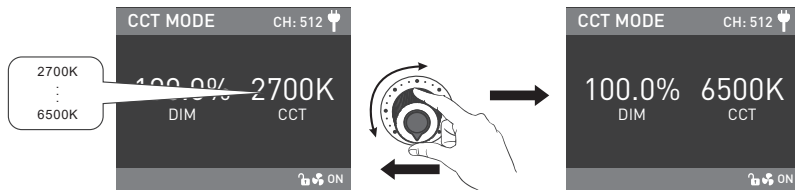
2.CCT button: press the CCT button to enter the CCT mode.

① Brightness setting, rotate "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%.
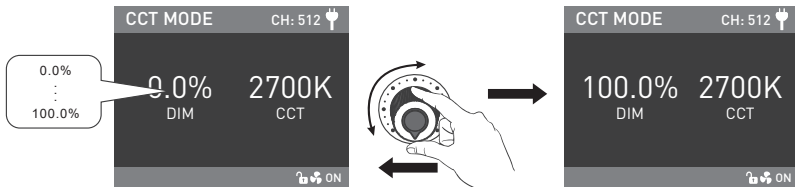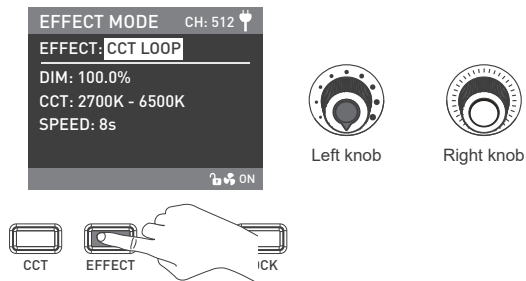

Note: In other modes, the range of brightness adjustment is the same as that in CCT mode. When the fixture function is unlocked, in any mode, press the "Left knob" to turn off the light, the brightness percentage indicated on the screen is 0.0% in this case. Press again to restore the light to its previous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

②CCT setting, rotate "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

100.0% 6500K
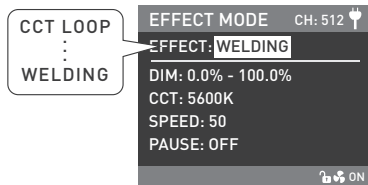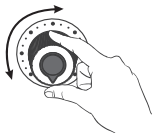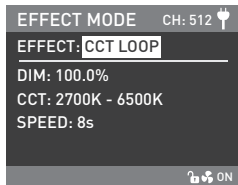DIM CCT

CCT MODE   CH: 512

ON

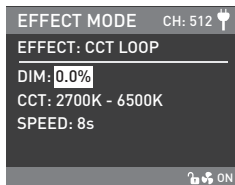Note: Press the "Right knob" could quickly switch to 2700K, 3200K, 4300K, 5600K, 6500K.

3. EFFECT Button: Press the EFFECT button to enter EFFECT MODE.

EFFECT MODE   CH: 512

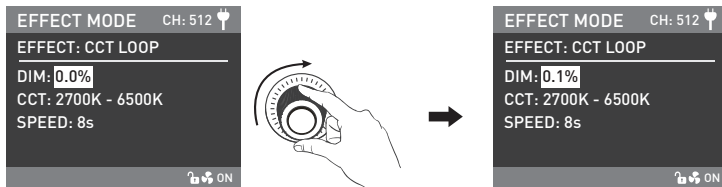EFFECT: CCT LOOP

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

ON

Left knob   Right knob

CCT   EFFECT   CK

NANLITE

· 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 "Left knob" to select the desired special 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
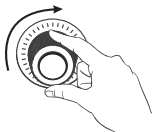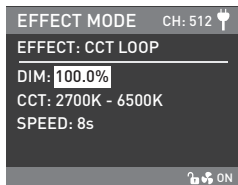
Rotate "Right knob" to select options under the effects.
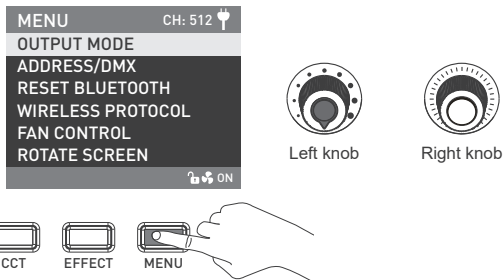

20

Rotate "Left knob" to set the corresponding parameters.

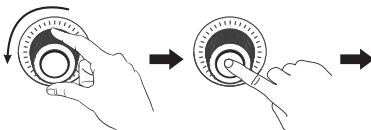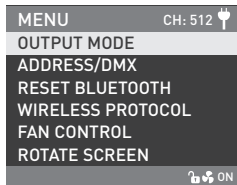Note: ①All the effects are set in same method.

②When setting the STORM AUTO and EXPLOSION AOTO, need to rotate "Right knob" to trigger the effect.
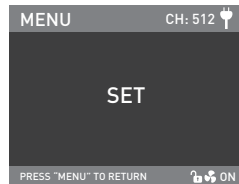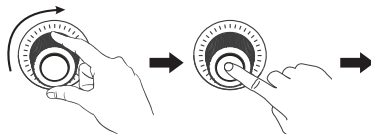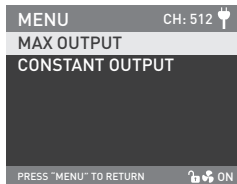
4. MENU: Press the MENU button to enter the menu.

Left knob   Right knob

CCT   EFFECT   MENU

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

21

① OUTPUT 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 "Right knob" to "OUTPUT MODE", press "Right knob" to enter the corresponding secondary menu.

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

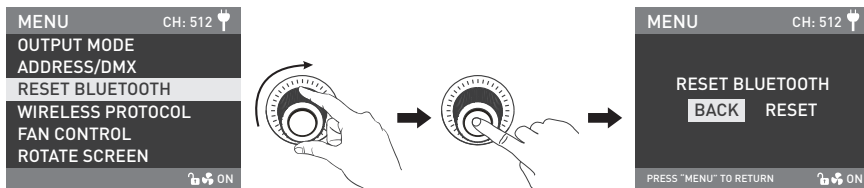| MENU	CH: 512 🔌
SET	
PRESS "MENU" TO RETURN	🔒 ⚡ ON

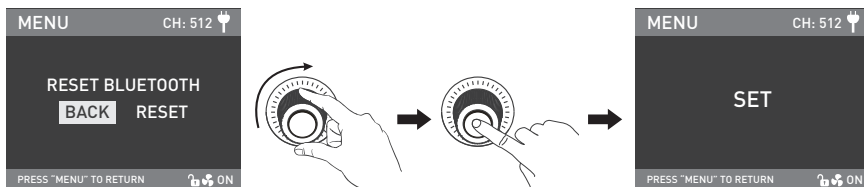Rotate "Right knob" to select the "MAX OUTPUT" or "CONSTANT OUTPUT", and press "Right knob" to set.

②ADDRESS/DMX

   For more operation details please refer to P10.

③RESET BLUETOOTH

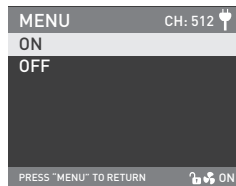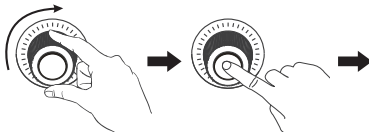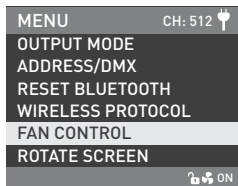Rotate "Right knob" to RESET BLUETOOTH. Press "Right knob" to enter the corresponding third menu.
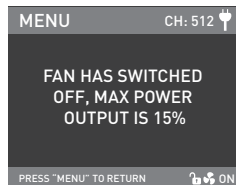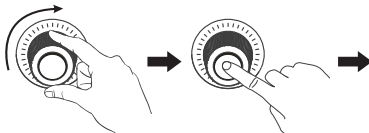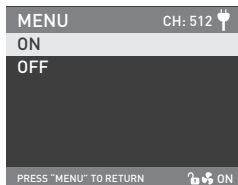

Rotate "Right knob" to select RESET. Press "Right knob" to set.

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	

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

Rotate "Right knob" to FAN CONTROL. Press "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 "Right knob" to select the fan ON or OFF. Press "Right knob" to set.

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

⑥ROTATE SCREEN

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

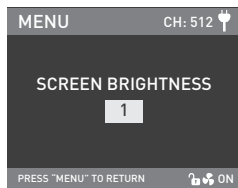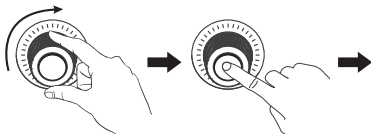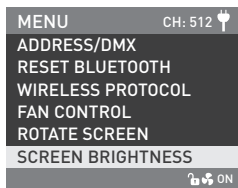| MENU	CH: 512
DO YOU WANT ROTATE SCREEN	
NO YES	
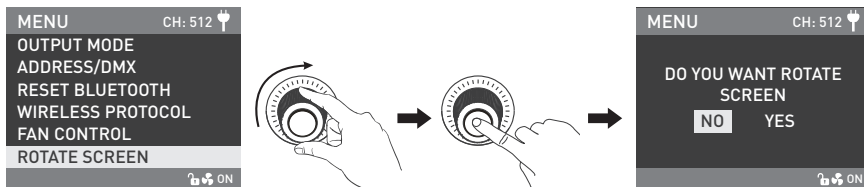
Rotate "Right knob" to ROTATE SCREEN. Press "Right knob" to enter the corresponding secondary menu.

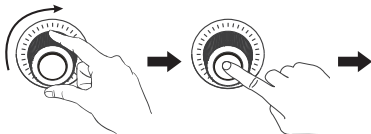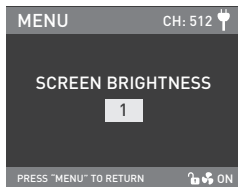| MENU	CH: 512
DO YOU WANT ROTATE SCREEN	
NO YES	

SET
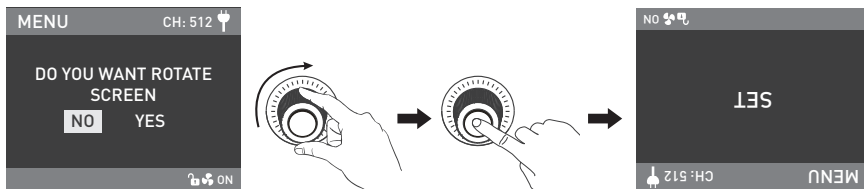
Rotate "Right knob" to select YES or NO. Press "Right knob" to set.
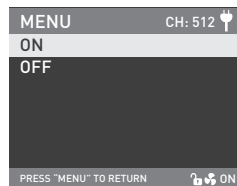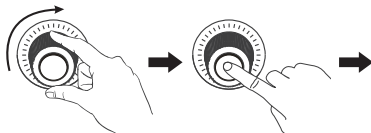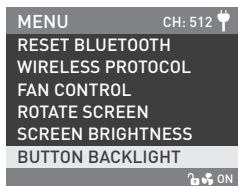
⑦SCREEN BRIGHTNESS

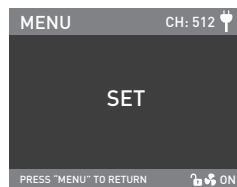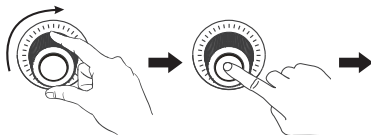Rotate "Right knob" to SCREEN BRIGHTNESS. Press "Right knob" to enter the corresponding secondary menu.

Rotate "Right knob" to select the screen brightness. Press "Right knob" to set.
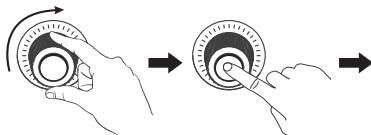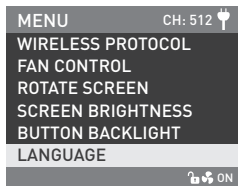
⑧BUTTON BACKLIGHT

Rotate "Right knob" to BUTTON BACKLIGHT. Press "Right knob" to enter the corresponding secondary menu.

Rotate "Right knob" to select ON or OFF. Press 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 "Right knob" to LANGUAGE. Press "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
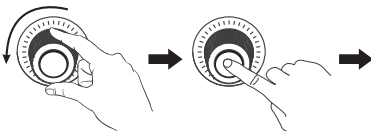
Rotate "Right knob" to select the ENGLISH or CHINESE. Press "Right knob" to set.
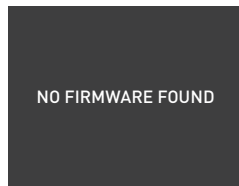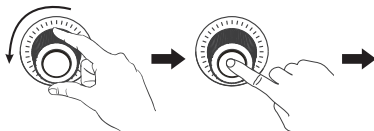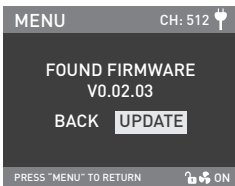
⑩FIRMWARE UPDATE

· 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.
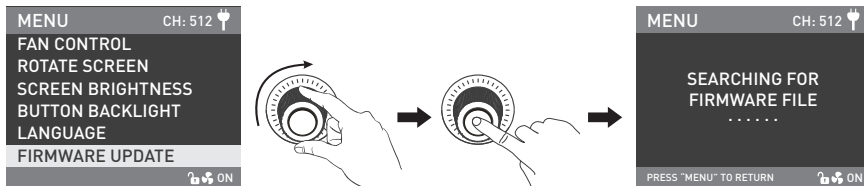
Rotate the "Right knob" to "Update", press the "Right knob" to enter the interface to search for the firmware files.
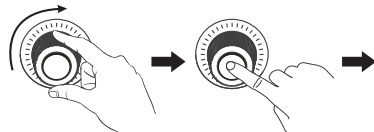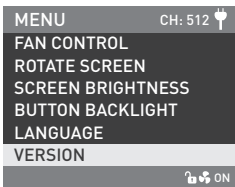
Note:
(1)Please do not rename the updated file
(2)Ensure the USB flash drive is formatted to FAT, FAT32 or exFAT.
(3)If prompted that "PLEASE CONNECT THE LAMP HEAD TO THE CONTROLLER BEFORE FIRMWARE UPDATE", please check whether the light fixture is connected to the control unit or whether the connection 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.

MENU	CH: 512

FOUND FIRMWARE
V0.02.03
BACK   UPDATE

PRESS "MENU" TO RETURN   ON

NO FIRMWARE FOUND

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

MENU	CH: 512

FAN CONTROL
ROTATE SCREEN
SCREEN BRIGHTNESS
BUTTON BACKLIGHT
LANGUAGE
VERSION

ON

MENU	CH: 512

VERSION: 0.02.03
To upgrade, please switch off the
light, plug in USB drive that has
new firmware, and restart the light.
www.nanlite.com

PRESS "MENU" TO RETURN   ON

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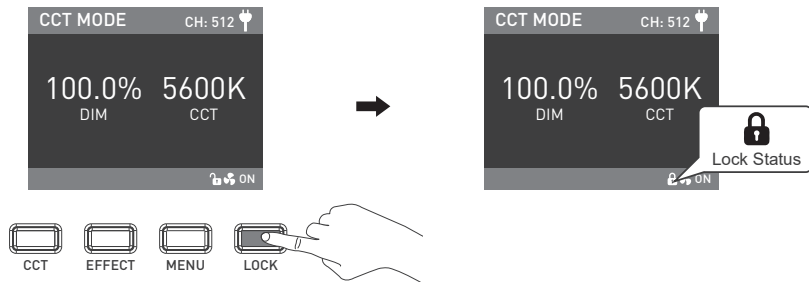
6. When the fixture is not in use, please turn off the power switch.

Safety Precautions

1. Please open the package to check for possible damage caused in transit, please do not use if damage is found and contact place of purchase or manufacturer.
2. 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.
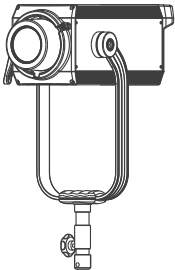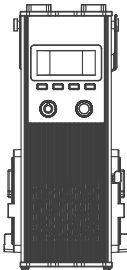5. Keep the light safely stored and away from children.
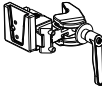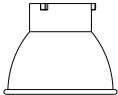
Notice

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 do not leave flammable or explosive articles within 0.5m of the fixture.
4. Please do not place objects on the light emitter or allow liquid to flow inside the fixture or the emitter.
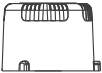5. Do not place the fixure near flammable substances like alcohol or gasoline.
6. When cleaning the light, please wipe off debris or dirt by using a cloth with clean water or neutral cleanser.
7. The fixture should be used in dry and ventilated place and avoid being used in damp, dusty or overheated 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, disasembling and repair can only be allowed when trained professionals are involved under strict protocal 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.

▌General Fault Detection and Diagnosis

Fault Detection	Diagnosis
The light won't boot up properly	1. Please check whether the power supply, cable and outlet are properly connected and that the cable is not faulty or 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 that the XLR signal cable is connected correctly and that it is not faulty or damaged.
LCD display is on, but light cannot be operated.	Please check if the LCD display shows "🔒". Press and hold the "LOCK" button for 2s to release the LOCK.
The fan doesn't work	1. Please check if the fan is OFF 2. If the screen dispays "Fan abnormal", please contact with dealer or supplier for purchase or replacement.
If the failure is not resolved after troubleshooting, please contact with distributor or supplier for maintenance.	

▌What's in the box? Please kindly check:

Forza 720B×1	Control Unit×1	Power Cable 4.5M×1	Connecting Cable 5M×1
		Quick Release Clamp×1	Reflector×1
Carrying Bag×1	COB Protective Cap×1	DMX Reference Guide×1	User Manual×1

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.

NANLITE

📞 +86-754-85751187   🖥 +86-754-85300887

✉ service@nanlite.com   📍 Zhanglin,324,Dongli Chenghai Shantou Guangdong China

www.nanlite.com