

Forza 720B USER MANUAL

Guangdong NanGuang Photo&Video Systems Co., Ltd

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





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:

- ③When 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



1. Loosen the adjustable handle to open the clamp.



 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.



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



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

4. Reflector Installation



 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.

Address Setting

Press MENU button to access options.



MENU CH: 512			MENU	CH: 512 벅
OUTPUT MODE			ADDRESS	
ADDRESS/DMX			DMX MODE	
RESET BLUETOOTH	A CONTRACT OF	SUTTRE	DMX DIMMING	CURVE
WIRELESS PROTOCOL				
FAN CONTROL		ARAC		
ROTATE SCREEN				
a 😽 0	N (2	PRESS "MENU" TO RETURN	N 🔓 🗣 ON

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 🕈			MENU	CH: 512 벅
ADDRESS			CCT 8bit	
DMX MODE	\sim		CCT 16bit	
DMX DIMMING CURVE	-		ULTIMATE DMX 8	bit
PRESS "MENU" TO RETURN 🛛 🔒 🖧 ON		<pre>/</pre>	PRESS "MENU" TO RETURN	🔓 💞 ON

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



Rotate "Right knob" to select the corresponding DMX mode. Press "Right knob" to set.

3. DMX DIMMING CURVE



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



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:



- 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.



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 $120\Omega(OHM)$ 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.



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:



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".



2.CCT button: press the CCT button to enter the CCT mode.

CCT MODE	СН: 512 🕈
100.0% _{DIM}	5600K
	🔒 🖧 ON
CCT	LOCK

l

③Brightness 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.



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.



 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.



Rotate "Left knob" to select the desired special effect.



Rotate "Right knob" to select options under the effects.



Rotate "Left knob" to set the corresponding parameters.

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

(2) When 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.



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.

①OUTPUT MODE

MENU	CH: 512 뿌			MENU	CH: 512 벅
OUTPUT MODE				MAX OUTPUT	
ADDRESS/DMX				CONSTANT OUT	PUT
RESET BLUETOO	тн	S. S	SUUTIN		
WIRELESS PROTO	DCOL			•	
FAN CONTROL			Rex , ,		
ROTATE SCREEN					
	🚡 💞 ON		7	PRESS "MENU" TO RETURN	i 🔒 🖧 ON

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



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.

@WIRELESS PROTOCOL

For more operation details please refer to P16.

⑤FAN CONTROL



Rotate "Right knob" to FAN CONTROL. Press "Right knob" to enter the corresponding secondary menu.



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.

©ROTATE SCREEN



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



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.

BUTTON 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.

③LANGUAGE

MENU	CH: 512 뿌			MENU	CH: 512 Ϋ
WIRELESS PROTO	COL			ENGLISH	
FAN CONTROL			_	简体中文	
ROTATE SCREEN		Service A	STUTION REAL		
SCREEN BRIGHTN	ESS				
BUTTON BACKLIG	IT		REXC. 1		
LANGUAGE					
	🔓 🐝 ON		7	PRESS "MENU" TO RETURN	🔓 🐝 ON

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



Rotate "Right knob" to select the ENGLISH or CHINESE. Press "Right knob" to set.

@FIRMWARE 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.



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.

1VERSION



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

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	 Please check whether the power supply, cable and outlet are properly connected and that the cable is not faulty or loose. Please check whether the voltage value is within the specified parameters. 	
The fixture can be operated manually, but DMX control is not working.	 Please check whether the DMX address code setting of the fixture is correct. 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	 Please check if the fan is OFF 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:



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

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