
4x4 multi-color stitched matrix light



User Manual

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NWITC®
BLUE SEA LIGHTING

1. Notes and Installation Notes and Installation

1.1 Declaration

Thank you for choosing our company's products! This product is in perfect condition and fully packaged when it leaves the factory. To ensure your safe and effective use of this product, please carefully and completely read this user manual before using it. This manual contains important information regarding installation and usage. Please follow the instructions in the manual for installation and operation. Also, please properly keep this manual for future use. Our company does not assume any responsibility for any damage to the lamps or other performance caused by individuals not following the instructions during installation, use, or maintenance.

If there are any technical changes to this manual, no further notice will be given.

1.2 Maintenance and Care

Before conducting maintenance and servicing, please disconnect the power supply.

This lamp should be kept dry and should not be operated in a humid environment.

Intermittent use can effectively extend the lifespan of this lamp.

To achieve good ventilation and lighting effects, it is necessary to frequently clean the fan, fan mesh, and lenses.

Do not wipe the lamp housing with organic solvents such as alcohol to avoid damage.

1.3 Product Precautions

This lamp is for professional use only.

Before operation, ensure that the power voltage matches the required power voltage of the equipment.

Do not place this product in areas prone to loosening or vibration.

If the lamp shows any abnormalities during use, stop using it immediately.

To ensure the lifespan of the product, do not place it in damp or water-leaking areas, and do not operate it in an environment with a temperature exceeding 60 degrees Celsius.

When using the bulb, the voltage variation should not exceed $\pm 10\%$. If the voltage is too high, it will shorten the bulb's lifespan; if the voltage is too low, it will affect the color of the bulb.

After power off, wait for 20 minutes for the lamp to cool down completely before reactivating it.

Regularly inspect the rotating parts and attached accessories of the lamp. If they become loose or shaky, reinforce them promptly to prevent accidents.

To ensure the normal use of this product, please carefully read this manual.

1.4 Product Introduction

Total Power: 300W;

Voltage: AC 100V - 240V 50/60Hz

Light Source: 4 x 50W RGBW COBLED + 4 x 40W Amber COBLED

RGBW LED: 40-degree beam angle

Average LED Lifespan: 50,000 hours

DMX Modes: 11A/11B/20 channels

IP20 Protection Grade

Display: LCD display and 4-button menu

Data: 3-pin DMX input/output

180-degree Installation Bracket System

Quick Splicing Locking Mechanism, can be spliced up, down, left and right

Power Lock Power Input/Output

100-240V 50Hz/60Hz (Automatic Sensing)

Maximum Power Consumption: 300W (2.7A@120V~60Hz, 1.4A@230V~50Hz)

Product Size: 350x350x75mm

Product Weight: 5kg

1.5 Signal Line Connection

The lamp is equipped with standard 3-core or 5-core XLR sockets for DMX input and output. Please use shielded twisted-pair signal lines specifically designed for DMX 512; the signal lines are generally connected over a distance of 150 meters. For long-distance signal transmission, a DMX512 signal amplifier must be added.

Connect one shielded twisted-pair signal line from the DMX output port of the controller to the DMX input port of the first device, then from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then, install a terminal plug on the 3-core jack at the last connection point of each link. (Weld a 4/1W, 120 Ω resistor between the 2nd and 3rd pins of the 2-pin jack with pins.)

Important reminder: The wires must not touch each other or come into contact with the metal casing.

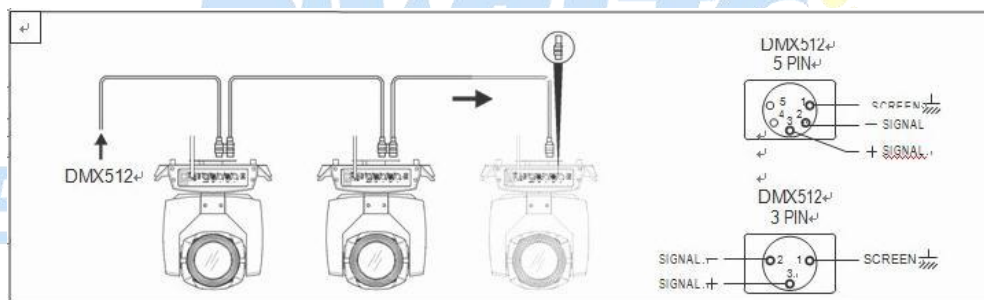


Figure 1 Diagram of DMX Signal Line Connection

Calculation Method for the Initial Address Code of the Lamp:

The initial address code of the current lamp is equal to (the initial address code of the previous lamp) + (the number of channels of the lamp).

Explanation:

1: The initial address code of the first lamp is A001.

2: The basic channel number of the controller should be greater than or equal to the total number of usage channels of the lamps.

3: Note: When using any controller, each lamp must have its own initial address code. If the initial address code of the first lamp is set as A001 and the total number of channels of the lamp is 16CH; then the initial address code of the second lamp is set as A017; the initial address code of the third lamp is set as A033; and so on. (This setting method also needs to be determined according to different consoles)

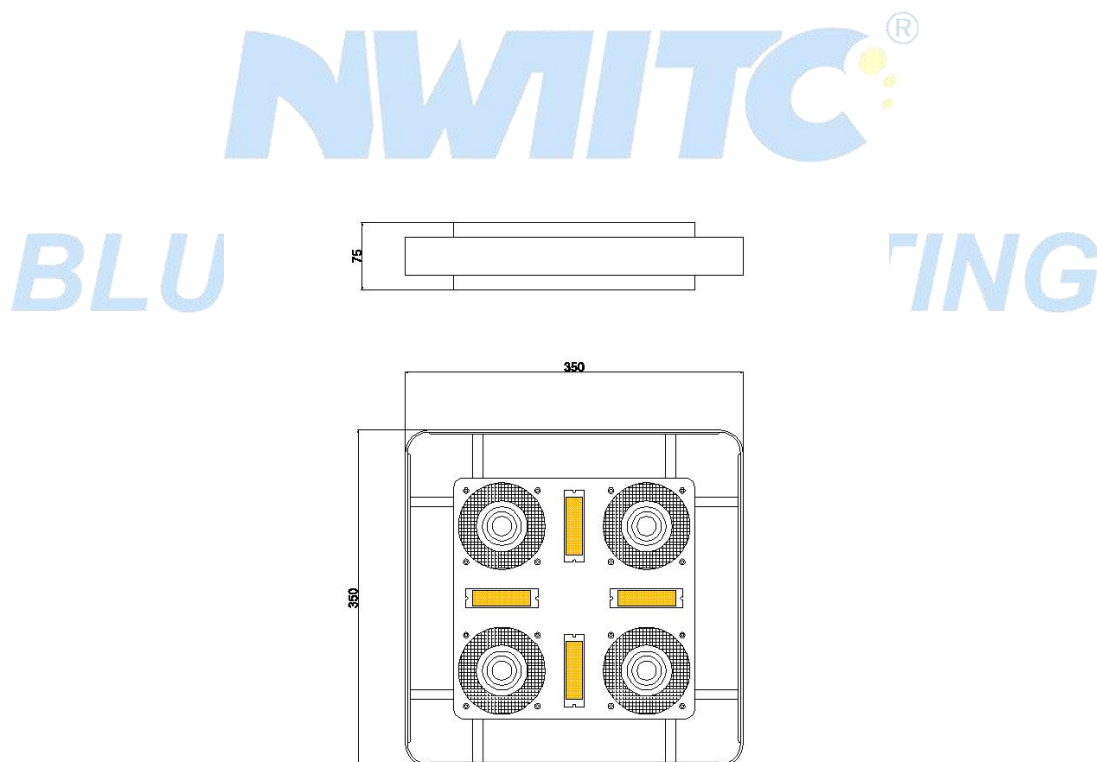
1.1 Lamp Installation

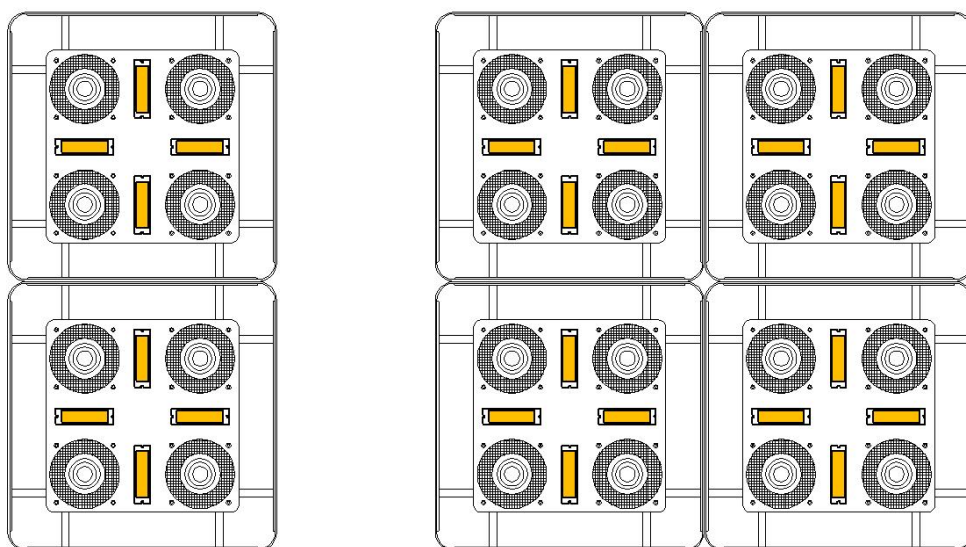
Lamps can be placed horizontally, hung at an angle, or inverted. When hanging at an angle or upside down, special attention must be paid to the installation method.

As shown in Figure 2, before positioning the lamp, it is necessary to ensure the stability of the installation location. When installing in reverse hanging mode, it is essential to ensure that the lamp does not fall off the support frame. Safety ropes should be used to assist in hanging, ensuring safety and preventing the lamp from falling or sliding.

During the installation and debugging of the lamp, no one is allowed to pass under it. Regularly check if the safety ropes are worn out or if the hook screws are loose.

If any consequences occur due to unstable hanging installation, causing the lamp to fall, our company will not bear any responsibility.





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1. Control Panel

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2.1 Button Instructions



MENU: Menu

ENTER: OK

UP: Up

DOWN: Down

2.2 Menu Description



Mode	DMX Mode	
	Color selection mode	
	Self-moving mode	
	Voice control mode	
	Full brightness mode	
Parameters:	DMX address,	
	color selection value,	
	walking effect,	
	walking mode,	
	red value,	
	greered value,	
	blue value,	
	white value	
Inverted		
	Language	
	Inverted display	
	Screen saver settings	
Information		
	Manufacturer Information	
	Model number of this machine	
	Software version	

Factory setup	factory data reset	

2. Function Channel

3.1 Channel Table

1. 4 x 4-in-1 DMX point controllers + 4 x warm white DMX channel function meters

11CH-A

Channel	function	explain
CH1	Total dimming	Overall dimming, from dark to bright
CH2	R dimming	Red dimming, from dark to bright
CH3	G dimming	Green dimming, from dark to bright
CH4	B dimming	Blue light, from dark to bright
CH5	W dimming	White tone adjustment, from dark to bright
CH6	Y dimming	Yellow light adjustment, from dim to bright
CH7	Total flicker	Global strobe, from slow to fast
CH8	RGBW function selection	0-10: Dimming mode; 11-50: Color selection (selected by CH9); 51-190: 28 auto-running effects; 191-200: RGBW flickering; 201-210: RGBW gradient; 211-220: Pulse change; 221-250: Full auto-running; 251-255: Voice control (CH9 selects voice control 1, 2)
CH9	RGBW function speed	Function speed, from slow to fast (color selection during color output, and selection of strobe and jump during voice control)
CH10	Y Function Selection	0-10: Dimming mode; 11-50: Color selection (selected by CH11); 51-210: 20 auto-running effects; 211-220: Y gradient; 221-230: Y pulse variation; 231-250: Full auto-running process; 251-255: Voice control (CH11 selects voice control 1, 2)
CH11	Y Function Speed	Function speed, from slow to fast (color selection during color output, and selection of strobe and jump during voice control)

11CH-B

Channel	function	explain
CH1	Total dimming	Total dimming, from dark to bright
CH2	Total flicker	Global strobe, from slow to fast
CH3	Total flicker	Global strobe, from slow to fast
CH4	RGBW function selection	0-10: Dimming mode; 11-50: Color selection (chosen by CH5); 51-190: 28 self-propelled effects; 191-200: RGBW jump; 201-210: RGBW gradient; 211-220: Pulse variation; 221-250: Self driving throughout the entire process; 251-255: Voice control (CH5 select voice control 1, 2)

CH5	RGBW function speed	Function speed, from slow to fast (color selection for color output, voice control for strobe and jump)
CH6	Y Function Selection	0-10: Dimming mode; 11-50: Color selection (chosen by CH7); 51-210: 20 self-propelled effects; 211-220: Y gradient; 221-230: Y pulse change; 231-250: Self driving throughout the entire process; 251-255: Voice control (CH7 select voice control 1, 2)
CH7	R dimming	Red dimming, from dark to bright
CH8	G dimming	Green dimming, from dark to bright
CH9	B dimming	Blues light, from dark to bright
CH10	W dimming	White dimming, from dark to bright
CH11	Y dimming	Yellow dimming, from dark to bright

20CH

Channel	function	explain
CH1	R1 dimming	Red 1 dimming, from dark to bright
CH2	G1 dimming	Green 1 dimming, from dark to bright
CH3	B1 dimming	Blue 1 dimming, from dark to bright
CH4	W1 dimming	White 1 dimming, from dark to bright
CH5	R2 dimming	Red 2 dimming, from dark to bright
CH6	G2 dimming	Green 2 dimming, from dark to bright
CH7	B2 dimming	Blue 2 dimming, from dark to bright
CH8	W2 dimming	White2 dimming, from dark to bright
CH9	R3 dimming	Red 3 dimming, from dark to bright
CH10	G3 dimming	Green 3 dimming, from dark to bright
CH11	B3 dimming	Blue 3 dimming, from dark to bright
CH12	W3 dimming	White 3 dimming, from dark to bright
CH13	R4 dimming	Red 4 dimming, from dark to bright
CH14	G4 dimming	Green 4 dimming, from dark to bright
CH15	B4 dimming	Blue 4 dimming, from dark to bright
CH16	W4 dimming	White 4 dimming, from dark to bright
CH17	Y1 dimming	Yellow 1 dimming, from dark to bright

CH18	Y2 dimming	Yellow 2 dimming, from dark to bright
CH19	Y3 dimming	Yellow 3 dimming, from dark to bright
CH20	Y4 dimming	Yellow 4 dimming, from dark to bright

2. Introduction to Menu Functions

System Settings		
1	DMX address	Address code setting: 1-512
2	Previous one	Quickly set the previous address code: 1-512
3	Next one	Quickly set the next address code: 1-512
4	Channel Selection	Channel selection: CH11A, CH11B, CH20
5	Signal retention	DMX signal loss hold function
6	Unlock without signal	Unlock the device in DMX no-signal state

working mode		
1	DMX mode	DMX mode: console or slave operation
2	Color selection mode	Color selection effect: 1-80
3	Self driving mode	RGBW self-propelled effect: 1-32; RGBW speed: 1-255;
4	Voice control mode	Y self-propelled effect: 1-23; Y speed: 1-255; (Confirmation key can be modified)
5	Full brightness mode	Voice control effect: 1 voice control flicker, 2 voice control jump

参数调整		
1	DMX address	DMX Address Code: 1-512
2	Color selection value	Color selection value: 1-80
3	Main light effect	Main lighting effect: 1-32
4	Main light velocity	Main light speed: 1-255
5	Auxiliary lighting effect	Auxiliary lighting effect: 1-23
6	Auxiliary light speed	Auxiliary light speed: 1-255
7	Voice control mode	Voice control effect: 1 voice control flicker, 2 voice control jump
8	Red light value	Full brightness mode: Red light 0-255
9	Green light value	Full brightness mode: Green light 0-255

10	Blue light value	Full brightness mode: Blue light 0-255
11	White light value	Full brightness mode: White light 0-255
12	Yellow light value	Full brightness mode: Yellow light 0-255

Display Settings		
1	Language Selection	Language selection: Chinese/English
2	Inverted display	Screen inverted display: On/Off
3	Screen Saver Settings	Screen saver switch: On/Off

Local device information		
1	Manufacturer information	Manufacturer information: 4-LED RGBW 4-in-1 + 4 warm white
2	Model of this machine	Model: HK02
3	software version	Software version: v1.00

Factory Settings		
1	Factory Settings	It has been set by the manufacturer before shipment, so the user does not need to set it

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Common faults

For some common faults, corresponding solutions have been proposed. Any problems that cannot be solved should be handled by professionals. Before maintaining the lamps, please disconnect the power supply first.

1. The light source is not bright.

Check if the voltage that matches the lamp is installed;

Check if the connection point of the lamp's power supply or the control switch is not in good contact;

Check if the power supply is insufficient;

Check if the DMX512 controller has sent the command.

2. After the lamp is reset normally, it does not accept control from the console.

Check if the digital startup address value and function options are correct;

Check if the connection of the communication control lines is correct, if the communication lines are too long or have been interrupted;

Check if the control equipment is faulty, and check if the signal amplifier connected in series is faulty;

Check if the communication lines are too long or if there is interference from other devices;

Optimize the wiring, shorten the length of the control signal lines, separate the high-voltage and low-voltage lines;

Add a signal amplifier;

Use high-quality shielded twisted-pair cables for the signal lines;

Connect a signal terminal resistor (120 ohms) at the end of the lamp.

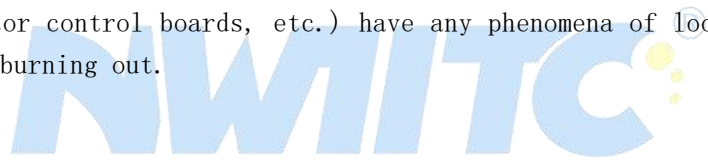
3. The lamp cannot be activated

Check if the power supply parameters of the lamp are consistent with those of the power supply;

Check if the lamp has contact failure or detachment due to squeezing deformation, internal part vibration, or moisture during long-distance transportation.

Please check if the internal wiring connectors of the lamp are loose or disengaged.

Check if the electronic components of the lamp (such as electronic transformers, PCB boards, motor control boards, etc.) have any phenomena of loosening, short circuiting, or burning out.



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