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## 6x50W Four-color Spliced Retro Lamp



## User Manual

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## Table of Contents

|                                    |           |
|------------------------------------|-----------|
| 1. Notes and Installation .....    | 错误！未定义书签。 |
| 1.1 Declaration .....              | 1         |
| 1.2 Maintenance and upkeep .....   | 1         |
| 1.3 Product Cautionary Notes ..... | 1         |
| 1.4 Product Introduction .....     | 1         |
| 1.5 Signal line connection .....   | 2         |
| 1.6 Lamp installation .....        | 2         |
| 2. Control Panel .....             | 4         |
| 2.1 Button Instructions .....      | 4         |
| 2.2 Main Menu .....                | 5         |
| 2.2.1 settings .....               | 5         |
| 2.2.2 Manual .....                 | 5         |
| 2.2.3 Information .....            | 6         |
| 2.2.4 Factory .....                | 7         |
| 3. Channel function .....          | 8         |
| 3.1 Channel Table .....            | 8         |
| 4. Common faults .....             | 11        |

**BLUE SEA LIGHTING**

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## 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.

- 1.1 Product Introduction
- Total Power: 350W;
- Voltage: AC 100V - 240V 50/60Hz
- Light Source: 6 x 50W RGBA COBLED
- RGBA LED: 120-degree beam angle
- Average LED Lifespan: 50,000 hours
- 8 DMX Modes: 4/8/14/24 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: 280W (2.7A@120V~60Hz, 1.4A@230V~50Hz)
- Product Size: 415x250x105mm
- Product Weight: 5.5kg

### 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  $\Omega$  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.

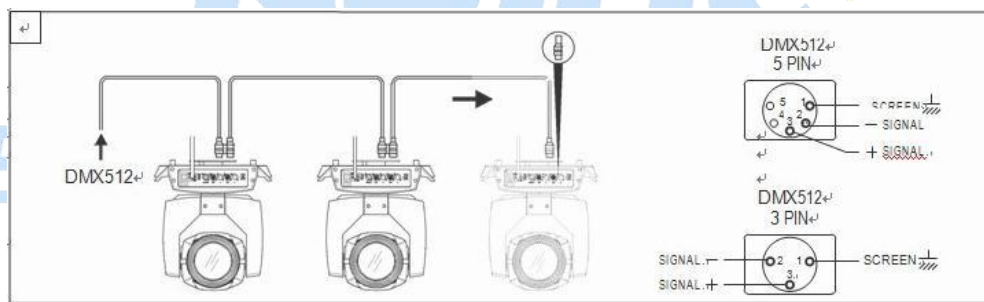


Figure 1 Diagram of DMX Signal Line Connection

### 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

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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.

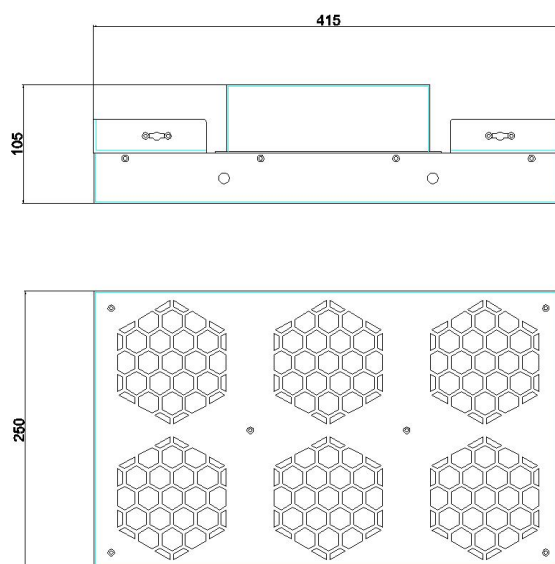
As shown in Figure 2, before positioning the lamp, it is necessary to ensure the stability of the installation location. When installing in reverse hanging mode, it is essential to ensure that the lamp does not fall off the support frame. Safety ropes should be used to assist in hanging, ensuring safety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

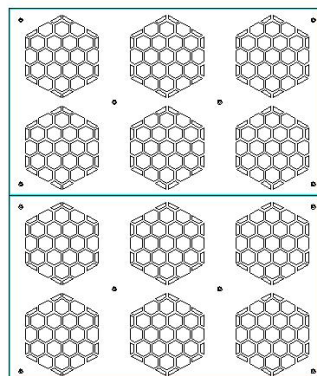
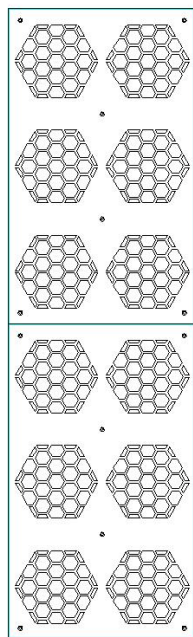
During the installation and debugging of the lamp, no one is allowed to pass under it. Regularly check if the safety ropes are worn out or if the hook screws are loose.

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. Channel Table

### 4-channel mode

| channel | function  | explain                            |
|---------|-----------|------------------------------------|
| CH1     | R Dimming | Red dimming, from dark to bright   |
| CH2     | G Dimming | Green dimming, from dark to light  |
| CH3     | B Dimming | Blue dimming, from dark to bright  |
| CH4     | W Dimming | White dimming, from dark to bright |

### 8-channel mode

| channel | function           | explain                                                                                                       |
|---------|--------------------|---------------------------------------------------------------------------------------------------------------|
| CH1     | Total dimming      | Total dimming, from dark to bright                                                                            |
| CH2     | R Dimming          | Red dimming, from dark to bright                                                                              |
| CH3     | G Dimming          | Green dimming, from dark to light                                                                             |
| CH4     | B Dimming          | Blue dimming, from dark to bright                                                                             |
| CH5     | W Dimming          | White dimming, from dark to bright                                                                            |
| CH6     | Total stroboscopic | Global strobe, from slow to fast                                                                              |
| CH7     | Function selection | 0: Dimming mode;                                                                                              |
|         |                    | 1-5: Color selection (chosen by CH8);                                                                         |
|         |                    | 6-201: Self driving effect 1- Self driving effect 99;                                                         |
|         |                    | 202-210: Jump effect;                                                                                         |
|         |                    | 211-220: Gradient effect;                                                                                     |
|         |                    | 221-230: Pulse effect;                                                                                        |
|         |                    | 231-250: Full process self-propelled+gradient+pulsating effect;                                               |
| CH8     | Function speed     | 201-255: Voice control (CH8 selects voice control strobe, voice control jump)                                 |
|         |                    | Function speed, from slow to fast (color selection for color output, voice strobe and jump for voice control) |

### 14-channel mode

| channel | function           | explain                                               |
|---------|--------------------|-------------------------------------------------------|
| CH1     | Total dimming      | Total dimming, from dark to bright                    |
| CH2     | Total stroboscopic | Global strobe, from slow to fast                      |
| CH3     | Function selection | 0: Dimming mode;                                      |
|         |                    | 1-5: Color selection (selected by CH4);               |
|         |                    | 6-201: Self driving effect 1- Self driving effect 99; |
|         |                    | 202-210: Jump effect;                                 |
|         |                    | 211-220: Gradient effect;                             |
|         |                    | 221-230: Pulse effect;                                |
|         |                    | 231-250: Full process                                 |

|      |                   |                                                                                                                            |
|------|-------------------|----------------------------------------------------------------------------------------------------------------------------|
|      |                   | self-propelled+gradient+pulsating effect;<br>201-255: Voice control (CH4 selects voice control strobe, voice control jump) |
| CH4  | Function speed    | 201-255: Voice control (CH4 selects voice strobe and voice jump)                                                           |
| CH5  | R Dimming control | The red light changes from dark to bright, and controls the color and brightness with CH9-CH14                             |
| CH6  | G Dimming control | The green light changes from dark to bright, and controls the color and brightness with CH9-CH14                           |
| CH7  | B Dimming control | Blue light changes from dark to bright, and coordinates with CH9-CH14 to control color and brightness                      |
| CH8  | W Dimming control | The white light changes from dark to bright, and controls the color and brightness with CH9-CH14                           |
| CH9  | LED01 dimming     | Bead 01 dimming, with CH5-CH8 to control color and brightness                                                              |
| ...  | ...               | ...                                                                                                                        |
| CH14 | LED6 dimming      | Bead06 dimming, with CH5-CH8 to control color and brightness                                                               |

#### 24-channel mode

| channel | function   | explain                                  |
|---------|------------|------------------------------------------|
| CH1     | R1 dimming | The first red lamp bead dims linearly.   |
| CH2     | G1 dimming | The first green lamp bead dims linearly. |
| CH3     | B1 Dimming | The first blue lamp bead dims linearly.  |
| CH4     | W1 dimming | The first white lamp bead dims linearly. |
| ...     | ...        | ...                                      |
| CH21    | R9 dimming | The 6th red lamp bead dims linearly.     |
| CH22    | G9dimming  | The 6th green lamp bead dims linearly.   |
| CH23    | B9Dimming  | The 6th blue lamp bead dims linearly.    |
| CH24    | W9Dimming  | The 6th white lamp bead dims linearly.   |

## 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;

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- 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.