

# Operating Instructions for Waterproof Beam Light



## Special Notes

- While resetting, press the touch screen or the “OK” button and hold for 5 seconds to stop resetting.
- After power is on, press the “Confirm” button, or press the touch screen and hold to stop resetting and enter testing mode.
- Set DMX address as 512 and return to the interface. Press “512” on the touch screen and hold for 5 seconds, or press the “OK” button and hold for 5 seconds to either “Display” or “Hide” the logo.
- The pattern plate and color plate have automatic magnetic detection and error correction functions. When a Hall sensor is being installed and the channel value is 0, or when resetting calibration is used for fine tuning, make sure that it is magnetized. When resetting calibration range of the pattern plate and color plate exceed +/-20, zero-point error correction function will be disabled. If it can be magnetized, the user may find the pattern plate or color plate of a lamp losing its steps and pushes channel value to 0, the system will then perform resetting error correction for the pattern plate or color plate.
- Signal indicator:
  - Flickering of the ERR red indicator indicates an error. You may enter “Information”-> “Wrong system information” to view the error.
  - Normal lighting up of the DMX blue indicator indicates that DMX signal is received. Normal switching off of the DMX blue indicator indicates that there is no DMX signal.
  - If the blue indicator on the motor driver board flickers rapidly at an interval of 1 second, serial port signals transmitted from the display board are received. If it flickers slowly at an interval of 2 seconds, there is no serial port signal. Flickering of the lamp indicates that the system is running. Normal switching on/off of the indicator indicates a fault in the motor driver board.

Color temperature: 8000K

Lens: Yilong optical lens

Horizontal: 540°

Vertical: 270°

Light source: 380W

Total power: 500W

Waterproof grade: IP65

DMX512 signal control

Color plate: 13 colors plus white light, and bidirectional speed change rainbow effect is available.

Rotary pattern plate: 17 fixed pattern plates (3 glass pattern positions) plus white light

Atomization: 1 Atomization mirror

Biprism: 8+16 prisms or 8+8 prisms for bidirectional speed change rotation

Light dimming: 0-100%

Strobing: 1-13 times/second

Focusing: Electronic focusing

Light output angle: 1.9°-3°

Panel: LCD sensitive button

Appearance: Patented product of full PV+ fiber plastic outer shell

Hanging: Can be hung

Net weight: 25KG

Dimension: 39\*32\*67

## (DMX Channels)

| Channel | Mode of Channel  |                         |
|---------|------------------|-------------------------|
|         | 16               | 20                      |
| 1       | Color wheel      | Color wheel             |
| 2       | STOP/STROBE      | STOP/STROBE             |
| 3       | Light dimming    | Light dimming           |
| 4       | Pattern plate    | Pattern plate           |
| 5       | Prism 1          | Prism 1                 |
| 6       | Prism rotation 1 | Prism rotation 1        |
| 7       | Prism 2          | Prism 2                 |
| 8       | Prism rotation 2 | Prism rotation 2        |
| 9       | 6 colors+ frost  | 6 colors+ frost         |
| 10      | Focusing         | Focusing                |
| 11      | PAN              | PAN                     |
| 12      | PAN FINE         | PAN FINE                |
| 13      | TILT             | TILT                    |
| 14      | TILT FINE        | TILT FINE               |
| 15      | Resetting        | Resetting               |
| 16      | Bulb control     | Bulb control            |
| 17      |                  | None                    |
| 18      |                  | Speed of color wheel    |
| 19      |                  | DIMMER-PRISM-FROST TIME |
| 20      |                  | Speed of pattern plate  |

➤ **COLOUR WHEEL - channel 1**

➤ **STOP/STOBE - channel 2**

➤ **DIMMER - channel 3**

| BIT   | EFFECT | 效果      | 备注 |
|-------|--------|---------|----|
| 255   | 100%   | 亮度 100% |    |
| ..... | .....  | .....   |    |
| 0     | 0%     | 亮度 0%   |    |

#### STATIC GOBO CHANGE - channel 4

|    |                         |         |                                                 |
|----|-------------------------|---------|-------------------------------------------------|
| 70 | WHITE SHAKE, SLOW SPEED | 白光孔慢速抖动 |                                                 |
| 65 | GOBO 13                 | 图案 13   |                                                 |
| 60 | GOBO 12                 | 图案 12   | 数值总是 5 的倍数<br>The value is always multiple of 5 |
| 55 | GOBO 11                 | 图案 11   |                                                 |
| 50 | GOBO 10                 | 图案 10   |                                                 |
| 45 | GOBO 9                  | 图案 9    |                                                 |
| 40 | GOBO 8                  | 图案 8    |                                                 |
| 35 | GOBO 7                  | 图案 7    |                                                 |
| 30 | GOBO 6                  | 图案 6    |                                                 |
| 25 | GOBO 5                  | 图案 5    |                                                 |
| 20 | GOBO 4                  | 图案 4    |                                                 |
| 15 | GOBO 3                  | 图案 3    |                                                 |
| 10 | GOBO 2                  | 图案 2    |                                                 |
| 5  | GOBO 1                  | 图案 1    |                                                 |
| 0  | WHITE                   | 白色      |                                                 |

#### ➤ PRISM INSERTION 1- channel 5

| BIT     | EFFECT         | 效果   | 备注 |
|---------|----------------|------|----|
| 128-255 | PRISM INSERTED | 插入棱镜 |    |
| 0-127   | PRISM EXCLUDED | 移开棱镜 |    |

#### ➤ PRISM ROTATION 1- channel 6

| BIT     | EFFECT        | 效果       | 备注 |
|---------|---------------|----------|----|
| 255     | FAST ROTATION | 快速旋转（正向） |    |
| .....   | .....         | .....    |    |
| 193     | SLOW ROTATION | 慢速旋转（正向） |    |
| 191-192 | STOP          | 停止       |    |
| 190     | SLOW ROTATION | 慢速旋转（反向） |    |
| .....   | .....         | .....    |    |
| 128     | FAST ROTATION | 快速旋转（反向） |    |
| 0-127   | POSITION      | 棱镜角度调节   |    |

#### ➤ PRISM INSERTION2 - channel 7

| BIT     | EFFECT         | 效果   | 备注 |
|---------|----------------|------|----|
| 128-255 | PRISM INSERTED | 插入棱镜 |    |
| 0-127   | PRISM EXCLUDED | 移开棱镜 |    |

➤ **PRISM ROTATION2 - channel 8**

| BIT     | EFFECT        | 效果       | 备注 |
|---------|---------------|----------|----|
| 255     | FAST ROTATION | 快速旋转（正向） |    |
| .....   | .....         | .....    |    |
| 193     | SLOW ROTATION | 慢速旋转（正向） |    |
| 191-192 | STOP          | 停止       |    |
| 190     | SLOW ROTATION | 慢速旋转（反向） |    |
| .....   | .....         | .....    |    |
| 128     | FAST ROTATION | 快速旋转（反向） |    |
| 0-127   | POSITION      | 棱镜角度调节   |    |

➤ **FOCUS - channel 10**

| BIT   | EFFECT | 效果      | 备注 |
|-------|--------|---------|----|
| 255   | 100%   | 调焦 100% |    |
| ..... | .....  | .....   |    |
| 0     | 0%     | 调焦 0%   |    |



➤ **PAN - channel 11（略）**



➤ **PAN FINE - channel 12（略）**



➤ **TILT - channel 13（略）**



➤ **TILT FINE - channel 14（略）**

➤ **PAN-TITL TIME - channel 15 复位**

➤ **LAMP CONTROL&RESET - channel 16**

| BIT     | EFFECT       | 效果   | 备注                                                                                              |
|---------|--------------|------|-------------------------------------------------------------------------------------------------|
| 101-255 | LAMP ON      | 点亮灯泡 | 在相应区域停留 5 秒之后开始开关灯泡。<br><br>Lamp switch passing through the unused range and staying 5 seconds. |
| 10-100  | LAMP OFF     | 熄灭灯泡 |                                                                                                 |
| 0-10    | UNUSED RANGE | 无效区域 |                                                                                                 |

➤ **RFU channel 17**

➤ **TIMING CHANNELS**

|    | Timing Channel | Channel function    | Remark         |
|----|----------------|---------------------|----------------|
| 18 | Colour time    | Colour wheel        | 255 SLOW SPEED |
| 19 | Beam time      | Dimmer-Prism -Frost | ..... ..       |
| 20 | Gobo time      | Static Gobo         | 0 FAST SPEED   |

# (Description of the Menu)

A level of password is set before entering the main menu to prevent from erroneous operation of any non-professional. The default password is “Up down up down”. Press “Confirm” key for password authentication.

➤ **Structure of menu**

|                |                                   |
|----------------|-----------------------------------|
| Main interface |                                   |
|                | ---- Setting ---- Operation mode  |
|                | ---- DMX address                  |
|                | ---- Channel mode                 |
|                | ---- X reversal                   |
|                | ---- Y reversal                   |
|                | ---- XY exchange                  |
|                | ---- XY coder                     |
|                | ---- DMX signal                   |
|                | ---- Power on to light bulb       |
|                | ---- Linear change of color wheel |
|                | ---- Restore to default setting   |
|                | ---- Manual                       |
|                | -- System -- Version of software  |
|                | -- Resetting calibration          |
|                | -- Sensor monitoring              |
|                | -- Error of system                |
|                | -- Authority setting              |
|                | -- DMX monitoring                 |
|                |                                   |
|                | -- Chinese-English switch         |
|                | -- Screen rotation                |