

## **Maris M**

### **LH -M4910**

This manual contains important information.  
Please read before operating fixture.

Guangzhou Leahua Lighting Technology Ltd  
[http:// www.leahualighting.com](http://www.leahualighting.com)

# Index

|                                   |    |
|-----------------------------------|----|
| 1. Safety Instructions .....      | 2  |
| 2. Technical Specifications ..... | 3  |
| 3. Operation .....                | 6  |
| 3.1 Front panel operation: .....  | 6  |
| 3.2 Board instruction: .....      | 6  |
| 3.3 DMX address setting: .....    | 8  |
| 4. DMX Protocol .....             | 10 |
| 5. Installation .....             | 23 |
| 5.1 Power connection .....        | 23 |
| 6. Maintenance & Cleaning .....   | 24 |
| 6.1 Cleaning .....                | 24 |
| 6.2 Lubrication .....             | 24 |
| 6.3 Troubleshooting .....         | 24 |

## Accessories

| Name             | Quantity | Remark   |
|------------------|----------|----------|
| User manual      | 1pc      |          |
| Power cable      | 1pc      |          |
| DMX signal cable | 1pc      |          |
| Safety cord      | 1pc      | Optional |

# 1. Safety Instructions

**WARNING!!! To reduce the risk of fire, electric shock, or injury to persons, follow these important safety instructions:**

- Check before use

Before operation, inspect the fixture for transportation damage. Do not use it if damaged. Unauthorized modification or improper use is not covered by warranty.

- Environment

The fixture is IP65-rated, suitable for indoor/outdoor use, and can operate in humid or dusty areas. Keep it away from excessive heat, fire, vibration, electrical surges, and strong light.

- Personnel & operation

Installation and operation must be performed by qualified personnel. Ensure all covers are securely in place, wear protective gear, and do not open the housing or attempt self-maintenance.

- Optical safety

Do not look directly into the light source. Do not use with dimmer packs. Maintain a minimum distance of 20 m from illuminated surfaces, and replace damaged optical components immediately.

- Electrical safety

Ensure correct voltage, proper grounding, and compliant power cords. Do not use damaged cables, and unplug by holding the plug. Avoid operating under heavy rain or extreme humidity, and avoid frequent on/off switching.

- Installation

Use the safety cord through the provided safety holes. Keep at least 50 cm ventilation clearance and do not mount on flammable surfaces or aim the beam at combustible objects (minimum 20 m).

- Temperature & normal conditions

Housing temperature may reach 45 – 75° C during operation. Slight smoke or odor may occur at first ignition and is considered normal.

## 2. Technical Specifications

### Power

Input Voltage: AC100-240V, 50/ 60Hz

Power Consumption: 700W

### Light source

Light Source: 49 × 10W WW LED; 441 × 1W RGBW LED

Life expectancy: 20000 hours (factory rated)

### Beam Angle

Beam Angle: (Beams) 6.2°; (Pixels) 63.4°

Field Angle: (Beams) 12.8°; (Pixels) 98.4°

### Control

Display: LCD display

Control mode: DMX512, master-slave, auto, sound, Art-Net, RDM

Channel: HSV/ 5/ 7/ 10/ 12/ 13/ 16/ 1813/ 1817/ 1825CH

### Dimming/Strobe

Dimming: 0-100% linear dimming system

Strobe: 1-25 F.P.S, speed adjustable

Dynamic Effect: Pre-programmed dynamic and static patterns, FX effect

### Housing

Housing: Metal

Protection rate: IP65

### Working temperature

Working temperature: -10°C-45°C

### Connection

Power connection: Powercon in/out

DMX connection: DMX 3-pin + RJ45 in/ out

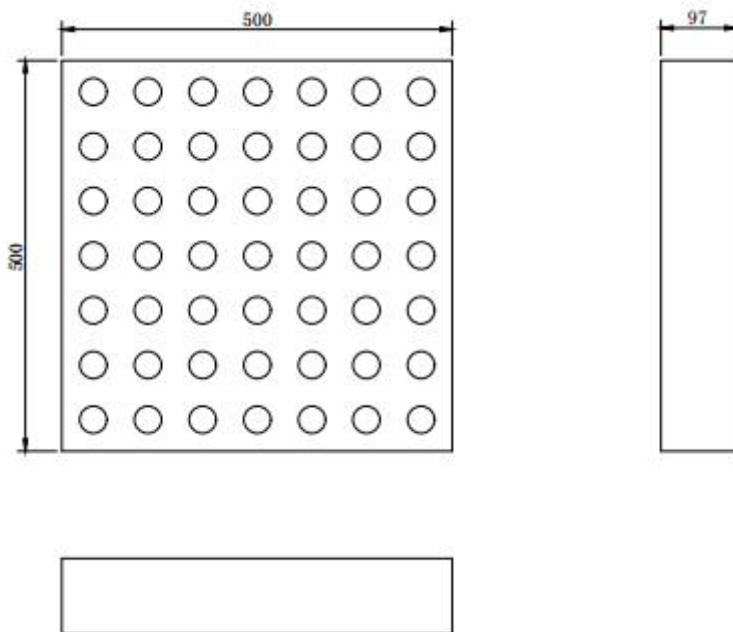
**Product dimensions**

500×500×104mm

**Net weight**

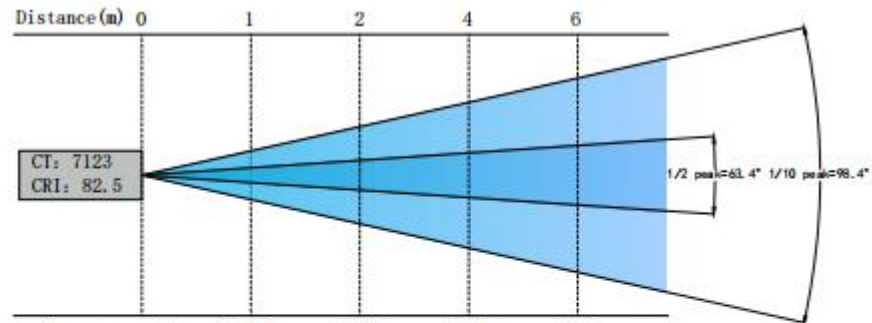
10.7kg

**Dimensions:**



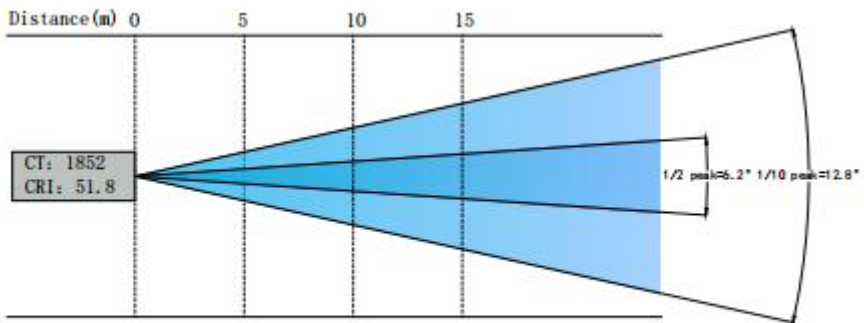
**Light output:**

### Fill Light



|                    |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| 63.4° Diameter (m) | 1.235 | 2.47  | 4.94  | 7.41  |
| 98.4° Diameter (m) | 2.315 | 4.63  | 9.26  | 13.89 |
| RGBW (Lux)         |       | 768.8 | 128.9 | 62.4  |
| R (Lux)            |       | 190.3 | 22.3  | 11.7  |
| G (Lux)            |       | 533.8 | 61    | 30.7  |
| B (Lux)            |       | 84.8  | 9.1   | 4.4   |
| W (Lux)            |       | 753.7 | 127.4 | 42.8  |

### Key Light



|                    |         |        |        |
|--------------------|---------|--------|--------|
| 6.2° Diameter (m)  | 0.545   | 1.09   | 1.635  |
| 12.8° Diameter (m) | 1.125   | 2.25   | 3.375  |
| WW (Lux)           | 12524.2 | 5113.5 | 2090.3 |

## 3. Operation

### 3.1 Front panel operation:



|       |   |
|-------|---|
| MENU  | To enter into move backward or leave the menu |
| UP    | To go backward to move up in the menu         |
| DOWN  | To go forward to move down in the menu        |
| ENTER | To perform the desired functions              |

Pressing any button from the home screen will show the selectable menu items from the menu map. When a menu function is selected, the display will immediately show the first available option for the selected menu function. To select a menu item, press <ENTER>.

Use the <UP> and <DOWN> buttons to navigate the menu options. Press the <ENTER> button to select the menu function currently displayed, or to enable a menu option. To return to the previous option or menu without changing the value, press the <MENU> button.

### 3.2 Board instruction:

|         |              |       |              |
|---------|--------------|-------|--------------|
| Address | DMX Address  | 0-255 |              |
| Set     | running mode | DMX   | Console mode |
|         |              | Sound | Sound mode   |
|         |              | Auto1 | Program1     |
|         |              | Auto2 | Program2     |

|        |                 |   |  |  |
|--------|-----------------|---|--|--|
|        |                 | D+A   | Receive dual control signals from DMX and Artnet (only 1813CH, 1817CH, and 1825CH are effective) |  |
|        |                 | Artnet  | Artnet mode, receiving Artnet signals  |  |
|        | Channel         | HSV/1CH/5CH/7CH/10CH/12CH/13CH/16CH/1813CH /1817CH/1825CH |  |  |
|        | Network         | IP Address  | Set the IP address for the fixture   |  |
|        |                 | Net Mask  | Set the sub net mask for the fixture   |  |
|        |                 | Universe  | Set the domain( Universe) for the fixture  |  |
|        | Pixel flip      | 0°  | Pixel flip 0 degrees   |  |
|        |                 | 90°   | Pixel flip 90 degrees  |  |
|        |                 | 180°  | Pixel flip 180 degrees   |  |
|        |                 | 270°  | Pixel flip 270 degrees   |  |
|        | Signal Keep     | ON/OFF  |  |  |
|        | Screen Saver    | ON/OFF  |  |  |
|        | Screen Lock     |   |  |  |
|        | Invert Screen   | OFF/ON  |  |  |
|        | Update Slave    | OFF/ON  |  |  |
|        | Language        | En/中文   |  |  |
|        | Load Default    | NO/YES  |  |  |
| Manual | 01 Dimmer       | 0-255   |  |  |
|        | 02 Red          | 0-255   |  |  |
|        | 03 Green        | 0-255   |  |  |
|        | 04 Blue         | 0-255   |  |  |
|        | 05 White        | 0-255   |  |  |
|        | 06 Main White   | 0-255   |  |  |
|        | 07 Strobe       | 0-255   |  |  |
|        | 08 Macro colour | 0-255   |  |  |
|        | 09 Linear CCT   | 0-255   |  |  |
|        | 10 Effect       | 0-255   |  |  |

|                 |                         |              |
|-----------------|-------------------------|--------------|
|                 | 11 Effect speed         | 0-255        |
|                 | 12 Function             | 0-255        |
| Calibration     | Balance-Red             | 0-255        |
|                 | Balance-Green           | 0-255        |
|                 | Balance-Blue            | 0-255        |
|                 | Balance-White           | 0-255        |
|                 | Power                   | 0-255        |
|                 | Balance1-White          | 0-255        |
|                 | Balance2-White          | 0-255        |
|                 | Balance3-White          | 0-255        |
|                 | ...                     | 0-255        |
|                 | Balance49-White         | 0-255        |
|                 | MIC                     |              |
| Change password |                         |              |
| Reset           | Record Effect           | OFF/1-50     |
|                 | Play Effect             | OFF/1-30     |
|                 | Sync Effect             | OFF/1-30/ALL |
| Note            | Reset Info              |              |
|                 | DMX Data                |              |
|                 | SD Card Info            |              |
|                 | Hardware:<br>52.00.00.0 |              |
|                 | Software:<br>04.00.00.0 |              |

### 3.3 DMX address setting:

Each fixture must be assigned a unique DMX start address within the 001 – 512 range. The start address represents the first channel the fixture occupies. This product provides ten DMX modes ( HSV/ 5/ 7/ 10/ 12/ 13/ 16/ 1813/ 1817/ 1825C channels); therefore, the next fixture's start address must be calculated according to the number of channels used in the

selected mode to avoid overlapping addresses.

For example, when operating in 5-channel mode, set Fixture 1 to 001, Fixture 2 to 006, Fixture 3 to 011, Fixture 4 to 16, etc.

| DMX Mode | Fixture1 | Fixture2 | Fixture3 | Fixture4 | ... |
|----------|----------|----------|----------|----------|-----|
| HSV CH   | 001      | 004      | 007      | 010      | ... |
| 5CH      | 001      | 6        | 11       | 16       | ... |
| 7CH      | 001      | 8        | 15       | 23       | ... |
| 10CH     | 001      | 11       | 21       | 31       | ... |
| 12CH     | 001      | 13       | 25       | 37       | ... |
| 13CH     | 001      | 14       | 26       | 38       | ... |
| 16CH     | 001      | 17       | 33       | 49       | ... |
| 1813CH   | 001      | 1814     | 3629     | 5442     | ... |
| 1817CH   | 001      | 1818     | 3635     | 5452     | ... |
| 1825CH   | 001      | 1826     | 3651     | 5476     | ... |

## 4. DMX Protocol

| 1CH | 5CH | 7CH | 10CH | 12CH | 13CH    | Function           | Value       | Description |
|-----|-----|-----|------|------|---------|--------------------|-------------|-------------|
| 1   | *   | 1   | 1    | 1    | 1       | Dimmer             | 000-255     | 0 ~100%     |
| *   | *   | *   | 2    | *    | 2       | Dimmer<br>Fine     | 000-255     | 0 ~100%     |
|     | 1   | 2   | 3    | 2    | 3       | Red                | 000-255     | 0 ~100%     |
|     | *   | *   | *    | *    | 4       | Red Fine           | 000-255     | 0 ~100%     |
|     | 2   | 3   | 4    | 3    | 5       | Green              | 000-255     | 0 ~100%     |
|     | *   | *   | *    | *    | 6       | Green Fine         | 000-255     | 0 ~100%     |
|     | 3   | 4   | 5    | 4    | 7       | Blue               | 000-255     | 0 ~100%     |
|     | *   | *   | *    | *    | 8       | Blue Fine          | 000-255     | 0 ~100%     |
|     | 4   | 5   | 6    | 5    | 9       | White              | 000-255     | 0 ~100%     |
|     | *   | *   | *    | *    | 10      | White Fine         | 000-255     | 0 ~100%     |
|     | 5   | 6   | 7    | 6    | 11      | Warm<br>White      | 000-255     | 0 ~100%     |
|     | *   | *   | *    | *    | 12      | Warm<br>White Fine | 000-255     | 0 ~100%     |
|     | 7   | 8   | 7    | 13   | Shutter | 000-010            | No Function |             |

|  |  |   |   |   |   |             |         |                      |
|--|--|---|---|---|---|-------------|---------|----------------------|
|  |  |   |   |   |   |             | 011-255 | Shutter Slow to Fast |
|  |  |   |   |   |   |             | 000-005 | No Function          |
|  |  |   |   |   |   |             | 006-013 | R                    |
|  |  |   |   |   |   |             | 014-021 | G                    |
|  |  |   |   |   |   |             | 022-029 | B                    |
|  |  |   |   |   |   |             | 030-037 | W                    |
|  |  |   |   |   |   |             | 038-045 | WW                   |
|  |  |   |   |   |   |             | 046-053 | RG                   |
|  |  |   |   |   |   |             | 054-061 | RB                   |
|  |  |   |   |   |   |             | 062-069 | RW                   |
|  |  |   |   |   |   |             | 070-077 | R-WW                 |
|  |  | * | 9 | 8 | * | Fixed Color | 078-085 | GB                   |
|  |  |   |   |   |   |             | 086-093 | GW                   |
|  |  |   |   |   |   |             | 094-101 | G-WW                 |
|  |  |   |   |   |   |             | 102-109 | BW                   |
|  |  |   |   |   |   |             | 110-117 | B-WW                 |
|  |  |   |   |   |   |             | 118-125 | W-WW                 |
|  |  |   |   |   |   |             | 126-133 | RGB                  |
|  |  |   |   |   |   |             | 134-141 | RGW                  |
|  |  |   |   |   |   |             | 142-149 | RG-WW                |
|  |  |   |   |   |   |             | 150-157 | RBW                  |
|  |  |   |   |   |   |             | 158-165 | RB-WW                |
|  |  |   |   |   |   |             | 166-173 | RW-WW                |

|  |  |    |   |   |                          |         |             |
|--|--|----|---|---|--------------------------|---------|-------------|
|  |  |    |   |   |                          | 174-181 | GBW         |
|  |  |    |   |   |                          | 182-189 | GB-WW       |
|  |  |    |   |   |                          | 190-197 | BW-WW       |
|  |  |    |   |   |                          | 198-205 | RGBW        |
|  |  |    |   |   |                          | 206-213 | RGB-WW      |
|  |  |    |   |   |                          | 214-221 | GBW-WW      |
|  |  |    |   |   |                          | 222-229 | RBW-WW      |
|  |  |    |   |   |                          | 230-237 | RGBW-WW     |
|  |  |    |   |   |                          | 238-255 | No Function |
|  |  | 10 | 9 | * | Color<br>Temperatur<br>e | 000-005 | No Function |
|  |  |    |   |   |                          | 006-018 | 2700K       |
|  |  |    |   |   |                          | 019-031 | 2800K       |
|  |  |    |   |   |                          | 032-044 | 3000K       |
|  |  |    |   |   |                          | 045-057 | 3200K       |
|  |  |    |   |   |                          | 058-070 | 3500K       |
|  |  |    |   |   |                          | 071-083 | 4000K       |
|  |  |    |   |   |                          | 084-096 | 4500K       |
|  |  |    |   |   |                          | 097-109 | 5000K       |
|  |  |    |   |   |                          | 110-122 | 5600K       |
|  |  |    |   |   |                          | 123-135 | 6000K       |
|  |  |    |   |   |                          | 136-148 | 6500K       |
|  |  |    |   |   |                          | 149-161 | 7000K       |
|  |  |    |   |   |                          | 162-174 | 7500K       |
|  |  |    |   |   | 175-187                  | 8000K   |             |

|  |  |   |    |   |                         |         |                         |
|--|--|---|----|---|-------------------------|---------|-------------------------|
|  |  |   |    |   |                         | 188-200 | 8500K                   |
|  |  |   |    |   |                         | 201-213 | 9000K                   |
|  |  |   |    |   |                         | 214-226 | 9500K                   |
|  |  |   |    |   |                         | 227-239 | 10000K                  |
|  |  |   |    |   |                         | 240-255 | No Function             |
|  |  | * | 10 | * | Auto programs           | 000-010 | No Function             |
|  |  |   |    |   |                         | 011-040 | Auto Program 1          |
|  |  |   |    |   |                         | 041-080 | Auto Program 2          |
|  |  |   |    |   |                         | 081-120 | Auto Program 3          |
|  |  |   |    |   |                         | 121-160 | Auto Program 4          |
|  |  |   |    |   |                         | 161-200 | Auto Program 5          |
|  |  |   |    |   |                         | 201-240 | Auto Program 6          |
|  |  |   |    |   |                         | 241-255 | No Function             |
|  |  |   | 11 | * | Auto speed              | 000-255 | Auto speed slow to fast |
|  |  |   | 12 | * | Control (Hold 3Seconds) | 000-007 | No function             |
|  |  |   |    |   |                         | 008-015 | Dimmer Reset            |
|  |  |   |    |   |                         | 016-023 | Red Shift: ON           |
|  |  |   |    |   |                         | 024-031 | Red Shift: OFF          |

|  |  |  |  |  |  |  |         |                                |
|--|--|--|--|--|--|--|---------|--------------------------------|
|  |  |  |  |  |  |  | 032-039 | Dimmer: S-Curve                |
|  |  |  |  |  |  |  | 040-047 | Dimmer: Linear                 |
|  |  |  |  |  |  |  | 048-055 | Dimmer: Square                 |
|  |  |  |  |  |  |  | 056-063 | Dimmer: Inverse Square         |
|  |  |  |  |  |  |  | 064-071 | Dimmer speed mode off          |
|  |  |  |  |  |  |  | 072-079 | Dimmer speed mode 1            |
|  |  |  |  |  |  |  | 080-087 | Dimmer speed mode2             |
|  |  |  |  |  |  |  | 088-095 | Dimmer speed mode3             |
|  |  |  |  |  |  |  | 096-103 | Pixel Flipping:Normal          |
|  |  |  |  |  |  |  | 104-111 | Pixel Flipping:Flip Right 90°  |
|  |  |  |  |  |  |  | 112-119 | Pixel Flipping:Flip Right 180° |
|  |  |  |  |  |  |  | 120-127 | Pixel Flipping:Flip Right 270° |

|  |  |  |  |  |  |  |  |         |                          |
|--|--|--|--|--|--|--|--|---------|--------------------------|
|  |  |  |  |  |  |  |  | 128-255 | Future Use (No Function) |
|--|--|--|--|--|--|--|--|---------|--------------------------|

**1813CN;1817CN;1825CH**

| 1813CH  |            |     | 1817CH  |            |     | 1825CH  |            |     | Function  | Value   | Description |
|---------|------------|-----|---------|------------|-----|---------|------------|-----|-----------|---------|-------------|
| Art-Net | ArtNet+DMX |     | Art-Net | ArtNet+DMX |     | Art-Net | ArtNet+DMX |     | /         | /       | /           |
| Art-Net | Art-Net    | DMX | Art-Net | Art-Net    | DMX | Art-Net | Art-Net    | DMX | /         | /       | /           |
| 1       |            |     | 1       |            |     | 1       |            |     | Red 1     | 000-255 | 0 ~100%     |
| 2       | 2          |     | 2       | 2          |     | 2       | 2          |     | Green 1   | 000-255 | 0 ~100%     |
| 3       | 3          |     | 3       | 3          |     | 3       | 3          |     | Blue 1    | 000-255 | 0 ~100%     |
| 4       | 4          |     | 4       | 4          |     | 4       | 4          |     | White 1   | 000-255 | 0 ~100%     |
| 5       | 5          |     | 5       |            |     | 5       |            |     | Red 2     | 000-255 | 0 ~100%     |
| 6       | 6          |     | 6       | 6          |     | 6       | 6          |     | Green 2   | 000-255 | 0 ~100%     |
| 7       | 7          |     | 7       | 7          |     | 7       | 7          |     | Blue 2    | 000-255 | 0 ~100%     |
| 8       | 8          |     | 8       | 8          |     | 8       | 8          |     | White 2   | 000-255 | 0 ~100%     |
| ...     | ...        |     | ...     | ...        |     | ...     | ...        |     | ...       | ...     | ...         |
| 1757    | 1757       |     | 1757    | 1757       |     | 1757    | 1757       |     | Red 440   | 000-255 | 0 ~100%     |
| 1758    | 1758       |     | 1758    | 1758       |     | 1758    | 1758       |     | Green 440 | 000-255 | 0 ~100%     |

|      |      |        |           |      |        |      |      |        |                    |         |         |
|------|------|--------|-----------|------|--------|------|------|--------|--------------------|---------|---------|
| 1759 | 1759 |        | 1759      | 1759 |        | 1759 | 1759 |        | Blue 440           | 000-255 | 0 ~100% |
| 1760 | 1760 |        | 1760      | 1760 |        | 1760 | 1760 |        | White 440          | 000-255 | 0 ~100% |
| 1761 | 1761 |        | 1761      | 1761 |        | 1761 | 1761 |        | Red 441            | 000-255 | 0 ~100% |
| 1762 | 1762 |        | 1762      | 1762 |        | 1762 | 1762 |        | Green 441          | 000-255 | 0 ~100% |
| 1763 | 1763 |        | 1763      | 1763 |        | 1763 | 1763 |        | Blue 441           | 000-255 | 0 ~100% |
| 1764 | 1764 |        | 1764      | 1764 |        | 1764 | 1764 |        | White 441          | 000-255 | 0 ~100% |
| 1765 |      | 1      | 1765      |      | 1      | 1765 |      | 1      | Warm White 1       | 000-255 | 0 ~100% |
| 1766 |      | 2      | 1766      |      | 2      | 1766 |      | 2      | Warm White 2       | 000-255 | 0 ~100% |
| ...  |      |        | ...       |      |        | ...  |      |        | ...                | ...     | ...     |
| 1812 |      | 4<br>8 | 1812      |      | 4<br>8 | 1812 |      | 4<br>8 | Warm White 48      | 000-255 | 0 ~100% |
| 1813 |      | 4<br>9 | 1813      |      | 4<br>9 | 1813 |      | 4<br>9 | Warm White 49      | 000-255 | 0 ~100% |
|      |      |        | 1814      |      | 5<br>0 | 1814 |      | 5<br>0 | Master Dimmer      | 000-255 | 0 ~100% |
|      |      |        |           |      |        | 1815 |      | 5<br>1 | Master Dimmer Fine | 000-255 | 0 ~100% |
|      |      |        | 1811<br>5 |      | 5<br>1 | 1816 |      | 5<br>2 | RGBW Dimmer        | 000-255 | 0 ~100% |
|      |      |        | 1816      |      | 5<br>2 | 1817 |      | 5<br>3 | RGBW Dimmer Fine   | 000-255 | 0 ~100% |
|      |      |        | *         | *    | *      | 1818 |      | 5      | WW                 | 000-    | 0 ~100% |

|  |  |   |   |   |      |        |                      |             |                         |
|--|--|---|---|---|------|--------|----------------------|-------------|-------------------------|
|  |  |   |   |   |      | 4      | Dimmer               | 255         |                         |
|  |  | * | * | * | 1819 | 5<br>5 | WW<br>Dimmer<br>Fine | 000-<br>255 | 0 ~100%                 |
|  |  | * | * | * | 1820 | 5<br>6 | Shutter              | 000-<br>010 | No Function             |
|  |  |   |   |   |      |        |                      | 011-<br>255 | Shutter Slow<br>to Fast |
|  |  | * | * | * | 1821 | 5<br>7 | Fixed<br>Color       | 000-<br>005 | No Function             |
|  |  |   |   |   |      |        |                      | 006-<br>013 | R                       |
|  |  |   |   |   |      |        |                      | 014-<br>021 | G                       |
|  |  |   |   |   |      |        |                      | 022-<br>029 | B                       |
|  |  |   |   |   |      |        |                      | 030-<br>037 | W                       |
|  |  |   |   |   |      |        |                      | 038-<br>045 | WW                      |
|  |  |   |   |   |      |        |                      | 046-<br>053 | RG                      |
|  |  |   |   |   |      |        |                      | 054-<br>061 | RB                      |
|  |  |   |   |   |      |        |                      | 062-<br>069 | RW                      |
|  |  |   |   |   |      |        |                      | 070-<br>077 | R-WW                    |
|  |  |   |   |   |      |        | 078-<br>085          | GB          |                         |
|  |  |   |   |   |      |        | 086-<br>093          | GW          |                         |

|  |  |  |  |  |  |  |  |  |         |        |
|--|--|--|--|--|--|--|--|--|---------|--------|
|  |  |  |  |  |  |  |  |  | 094-101 | G-WW   |
|  |  |  |  |  |  |  |  |  | 102-109 | BW     |
|  |  |  |  |  |  |  |  |  | 110-117 | B-WW   |
|  |  |  |  |  |  |  |  |  | 118-125 | W-WW   |
|  |  |  |  |  |  |  |  |  | 126-133 | RGB    |
|  |  |  |  |  |  |  |  |  | 134-141 | RGW    |
|  |  |  |  |  |  |  |  |  | 142-149 | RG-WW  |
|  |  |  |  |  |  |  |  |  | 150-157 | RBW    |
|  |  |  |  |  |  |  |  |  | 158-165 | RB-WW  |
|  |  |  |  |  |  |  |  |  | 166-173 | RW-WW  |
|  |  |  |  |  |  |  |  |  | 174-181 | GBW    |
|  |  |  |  |  |  |  |  |  | 182-189 | GB-WW  |
|  |  |  |  |  |  |  |  |  | 190-197 | BW-WW  |
|  |  |  |  |  |  |  |  |  | 198-205 | RGBW   |
|  |  |  |  |  |  |  |  |  | 206-213 | RGB-WW |
|  |  |  |  |  |  |  |  |  | 214-221 | GBW-WW |
|  |  |  |  |  |  |  |  |  | 222-    | RBW-WW |

|  |  |   |   |   |      |   |    |                   |         |             |
|--|--|---|---|---|------|---|----|-------------------|---------|-------------|
|  |  |   |   |   |      |   |    |                   | 229     |             |
|  |  |   |   |   |      |   |    |                   | 230-237 | RGBW-WW     |
|  |  |   |   |   |      |   |    |                   | 238-255 | No Function |
|  |  | * | * | * | 1822 | * | 58 | Color Temperature | 000-005 | No Function |
|  |  |   |   |   |      |   |    |                   | 006-018 | 2700K       |
|  |  |   |   |   |      |   |    |                   | 019-031 | 2800K       |
|  |  |   |   |   |      |   |    |                   | 032-044 | 3000K       |
|  |  |   |   |   |      |   |    |                   | 045-057 | 3200K       |
|  |  | * | * | * | 1822 | * | 58 | Color Temperature | 058-070 | 3500K       |
|  |  |   |   |   |      |   |    |                   | 071-083 | 4000K       |
|  |  |   |   |   |      |   |    |                   | 084-096 | 4500K       |
|  |  |   |   |   |      |   |    |                   | 097-109 | 5000K       |
|  |  |   | * |   |      |   |    |                   | 110-122 | 5600K       |
|  |  |   |   |   |      |   |    |                   | 123-135 | 6000K       |
|  |  |   |   |   |      |   |    |                   | 136-148 | 6500K       |
|  |  |   |   |   |      |   |    |                   | 149-161 | 7000K       |
|  |  |   |   |   |      |   |    |                   | 162-    | 7500K       |

|  |  |  |   |   |   |      |   |        |               |             |                         |
|--|--|--|---|---|---|------|---|--------|---------------|-------------|-------------------------|
|  |  |  |   |   |   |      |   |        | 174           |             |                         |
|  |  |  |   |   |   |      |   |        | 175-187       | 8000K       |                         |
|  |  |  |   |   |   |      |   |        | 188-200       | 8500K       |                         |
|  |  |  |   |   |   |      |   |        | 201-213       | 9000K       |                         |
|  |  |  |   |   |   |      |   |        | 214-226       | 9500K       |                         |
|  |  |  |   |   |   |      |   |        | 227-239       | 10000K      |                         |
|  |  |  |   |   |   |      |   |        | 240-255       | No Function |                         |
|  |  |  | * | * | * | 1823 | * | 5<br>9 | Auto programs | 000-010     | No Function             |
|  |  |  |   |   |   |      |   |        |               | 011-040     | Auto Program 1          |
|  |  |  |   |   |   |      |   |        |               | 041-080     | Auto Program 2          |
|  |  |  |   |   |   |      |   |        |               | 081-120     | Auto Program 3          |
|  |  |  |   |   |   |      |   |        |               | 121-160     | Auto Program 4          |
|  |  |  |   |   |   |      |   |        |               | 161-200     | Auto Program 5          |
|  |  |  |   |   |   |      |   |        |               | 201-240     | Auto Program 6          |
|  |  |  |   |   |   |      |   |        |               | 241-255     | No Function             |
|  |  |  | * | * |   | 1824 | * | 6<br>0 | Auto speed    | 000-255     | Auto speed slow to fast |

|  |  |      |   |        |      |   |        |                                |  |         |                        |
|--|--|------|---|--------|------|---|--------|--------------------------------|--|---------|------------------------|
|  |  |      |   |        |      |   |        |                                |  | 000-007 | No function            |
|  |  |      |   |        |      |   |        |                                |  | 008-015 | Dimmer Reset           |
|  |  |      |   |        |      |   |        |                                |  | 016-023 | Red Shift: ON          |
|  |  |      |   |        |      |   |        |                                |  | 024-031 | Red Shift: OFF         |
|  |  |      |   |        |      |   |        |                                |  | 032-039 | Dimmer: S-Curve        |
|  |  |      |   |        |      |   |        |                                |  | 040-047 | Dimmer: Linear         |
|  |  |      |   |        |      |   |        |                                |  | 048-055 | Dimmer: Square         |
|  |  | 1817 | * | 5<br>3 | 1825 | * | 5<br>3 | Control<br>(Hold 3<br>Seconds) |  | 056-063 | Dimmer: Inverse Square |
|  |  |      |   |        |      |   |        |                                |  | 064-071 | Dimmer speed mode off  |
|  |  |      |   |        |      |   |        |                                |  | 072-079 | Dimmer speed mode 1    |
|  |  |      |   |        |      |   |        |                                |  | 080-087 | Dimmer speed mode2     |
|  |  |      |   |        |      |   |        |                                |  | 088-095 | Dimmer speed mode3     |
|  |  |      |   |        |      |   |        |                                |  | 096-103 | Pixel Flipping:Normal  |

|  |  |  |  |  |  |  |  |  |  |         |                                |
|--|--|--|--|--|--|--|--|--|--|---------|--------------------------------|
|  |  |  |  |  |  |  |  |  |  | 104-111 | Pixel Flipping:Flip Right 90°  |
|  |  |  |  |  |  |  |  |  |  | 112-119 | Pixel Flipping:Flip Right 180° |
|  |  |  |  |  |  |  |  |  |  | 120-127 | Pixel Flipping:Flip Right 270° |
|  |  |  |  |  |  |  |  |  |  | 128-255 | Future Use (No Function)       |

| HSV | Function             | Value   | Description |
|-----|----------------------|---------|-------------|
| 1   | Hue( Chroma)         | 000-255 | 0 ~100%     |
| 2   | Saturation           | 000-255 | 0 ~100%     |
| 3   | Value( Color purity) | 000-255 | 0 ~100%     |

## 5. Installation

### 5.1 Power connection

Please checking the power equipment supported.

Please put the plug of power source wire connect with the main power source .

| ( EU )Wire   | Wire(America) | Direction of wire | General marks   |
|--------------|---------------|-------------------|---|
| Brown        | Black         | Live              | L   |
| Light blue   | White         | Neutral           | N   |
| Yellow/Green | Green         | Earth             |  |

## 6. Maintenance & Cleaning

Regular maintenance is essential to ensure optimal performance and extend the service life of the fixture.

### 6.1 Cleaning

Disconnect the unit from power before any cleaning work.

Use a soft, lint-free cloth slightly dampened with mild detergent to clean the exterior surfaces.

Gently remove dust from ventilation slots, optical lenses, and cooling components using compressed air or a soft brush.

Avoid using solvents, alcohol, or abrasive materials that may damage the housing or optical elements.

### 6.2 Lubrication

This fixture is designed with sealed or maintenance-free moving parts.

Under normal operating conditions, no additional lubrication is required.

If abnormal noise or movement resistance is observed, contact qualified service personnel before applying any lubricant.

### 6.3 Troubleshooting

If the fixture does not power on, verify the power supply, cables, and connectors.

For control issues, check DMX addressing, cable integrity, and ensure proper 3-pin/5-pin XLR connections.

Overheating or unexpected shutdown may indicate blocked ventilation; inspect and clean air inlets and outlets.

If problems persist after basic checks, discontinue use and contact authorized service technicians.



**LEAHUA**

Guangzhou Leahua Lighting Technology Ltd

---

---

Rm 1004, Building A  
Baiyun Lake Future Technology Center  
No,1 Xinghu Street, Shimen, Baiyun district  
Guangzhou 510440, China

---

---