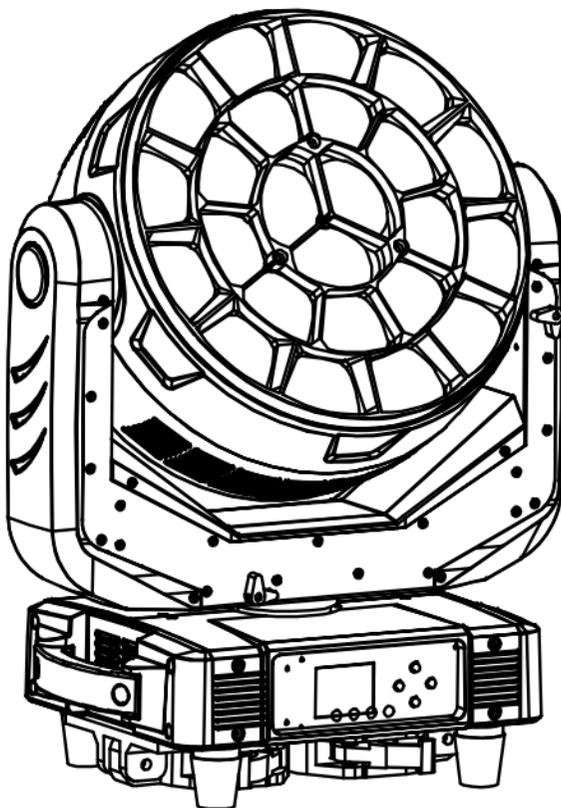


---

# Wash Zoom Big B-eye 24\*60w moving head



User manual

Please read the instructions carefully before us

# TABLE OF CONTENTS

|                                  |        |
|----------------------------------|--------|
| 1. Safety Instructions .....     | 1 - 3  |
| 2. Technical Specifications..... | 5      |
| 3. How To Control The Unit.....  | 6-9    |
| 4. DMX Channel List.....         | 10 -30 |
| 5. Shape.....                    | 30-31  |
| 7.Trouble shooting.....          | 32     |
| 8..Fixture Cleaning.....         | 33     |

## statement

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

# 1. Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

Unpack and check carefully there is no transportation damage before using the unit.

Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

The unit is for indoor use only. Use only in a dry location.

The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

Disconnect main power before replacement or servicing.

Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

Maximum ambient temperature is  $T_a: 40^{\circ}\text{C}$ . DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to  $85^{\circ}\text{C}$ . DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

⚠ DO NOT touch any wire during operation as high voltage might be causing electric shock.

### **Warning:**

⚠ To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

⚠ DO NOT open the unit within five minutes after switching off.

⚠ The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

### **Caution:**

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

### **Installation:**

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

## 2. Technical Specifications

**Light Source:** 24\*60W 4IN1 RGBW LED

Average lifespan> 50000 hours

Beam Angle:3.5°- 45°

Glass light guide + PMMA high quality optical lens

Power Consumption: 1500W

Power factor PF≥0.95

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

Net Weight: 26 kgs

Dimension: 444mm×376mm×573mm

Working temperature: -10℃～45℃

### Control

DMX Channel:21/25/33/129/106 Channels (ArtNet 106CH)

Control Modes: DMX512/master-Slave/Auto Run/Music/ArtNet

### Pan/Tilt

Pan : 540° ,accuracy 2.11°/step, fine-tuning accuracy: 0.008°;

Tilt : 270°,accuracy 0.86° /step, fine-tuning accuracy: 0.0034° ;

Using magnetic coded reset system

### Construction

Display:2.4-inch TFT color display;Chinese and English languages can be switched,180° reversible TFT Display

Data In/Out socket: 3-pin & 5-pin XLR sockets

Powercon in

Protection Rating: IP20

### **Electronic control technology:**

Menu or console control lamp reset;

0-100% dimming;

Constant current drive mode;

Temperature sensor detection, intelligent adjustment of light source power;

Lamp information query;

Intelligent fan speed control

### **Features**

Full optical domain dimming, 65536-level dimming accuracy; fast strobe 1~25Hz;

Single point control of lamp beads;

Combine the three-in-one effect of dyeing, beam and bee eye;

Preset various kinds of color macro function; preset various kinds of effect macro function

## **3. How To Control The Unit**



Menu

Up

Down

Enter

**Display:**

- MENU To select the programming functions
- DOWN To go backward in the selected functions
- uP To go forward in the selected functions
- ENTER To confirm the selected functions

### Set DMX Address Code

- 1 Press "**Menu**" to "Set DMX Address",and press"**ENTER**" keys to enter into
- 2 Show "Set DMX Address DMX Address:**001**",Press the "**UP and DOWN**" keys to amended
- 3 Press "**ENTER**"keys to save and Exit,Press the"**MENU**"Keys does not save and Exit

|                                    |               |                             |  |
|------------------------------------|---------------|-----------------------------|--|
| Menu                               | 1.Pan Degree  | 1) 540 ° , 2)360°           | X-axis running angle selection                     |
|                                    | 2.Mic Sense   | 001 - 100                   | Sound sensitivity adjustment                       |
|                                    | 3.Pan Invert  | 1.NO 2.YES                  | X axis forward and reverse settings                |
|                                    | 4.Tilt Invert | 1.NO 2.YES                  | Y axis forward and reverse settings                |
|                                    | 5.No Signal   | 1.Black Out 2.Hold          | Set the state when the machine has no signal input |
|                                    | 6.Fan Set     | 1.Auto 2.Low 3.High         | Set fan speed                                      |
|                                    | 7. ArtNet Set | ArtNet Enable:1.ON<br>2.OFF |  |
| 2.Universe:0--255                  |               |                             |  |
| 3.IP model:A.2.X.X.X<br>B.10.X.X.X |               |                             |  |

|                   |                        |                                  |   |
|-------------------|------------------------|----------------------------------|---|
| Menu              | 7.ArtNet Set           | C.Customer                       |   |
|                   |                        | 4.Customer<br>IP:192.168.000.001 |   |
|                   |                        | 5.SubNetMask:255.00<br>0.000.000 |   |
|                   | 8.Default              | Yes                              | Reset   |
|                   |                        | No                               |   |
|                   | 9.Adjust               | Pass Word: ****                  |   |
|                   |                        | Pan:0 - 255                      | Change the value of<br>Pan/Tilt/Focus/Rotation to<br>correct the angle;<br><br>Change the value of R/G/B/W<br>to adjust the white balance |
|                   |                        | Tilt:0 - 255<br>Focus:0 - 255    |   |
|                   |                        | Rotation:0 - 255                 |   |
|                   |                        | Red:0 - 255                      |   |
| Green:0 - 255     |                        |                                  |   |
| Blue:0 - 255      |                        |                                  |   |
| White:0 - 255     |                        |                                  |   |
| Address           | Setting from 001 - 512 |                                  |   |
| Model             | DMX512                 |                                  | Set control mode  |
|                   | Auto                   |                                  |   |
|                   | Sound                  |                                  |   |
|                   | Manual                 | 1.Pan(X):0--255                  | Manual  |
|                   |                        | 2.Tilt (Y) :0--255               |   |
|                   |                        | 3.Focus:0--255                   |   |
| 4.Rotation:0--255 |                        |                                  |   |
| 5.Red: 0--255     |                        |                                  |   |

|             |                    |                 |   |
|-------------|--------------------|-----------------|---|
| Model       | Manual             | 6.Greed: 0--255 | Manual                                    |
|             |                    | 7.Blue: 0--255  |   |
|             |                    | 8.White: 0--255 |   |
|             |                    | 9.Strobe: 0-255 |   |
|             | Master/Alone       | 1.Master        | Master/Alone                              |
|             |                    | 2.Alone         |   |
| Channel     | 1.21 CH            | 1.21 CH         | Select channel mode                       |
|             | 2.25 CH            | 2.25 CH         |   |
|             | 3.33 CH            | 3.33 CH         |   |
|             | 4. 129 CH          | 4.129 CH        |   |
|             | 5.106 CH           | 5. 106 CH       |   |
| Display     | Display            | 1.YES 2.NO      | Display font forward and reverse settings |
| Language    | English or Chinese |                 | Choose a language                         |
| Reset       | YES or NO          |                 | Reset                                     |
| Information | 1. CH Value        |                 | Show all channel information              |
|             | 2.Temp ____°C      |                 | Display LED board temperature             |
|             | 3.Soft V.XXX       |                 |   |
|             | 4.IP               |                 | 002.050.164.014                           |
|             | 5.Mask             |                 | 255.000.000.000                           |

## 4.DMX Channel List

### Model 1 - CH21

| Channel | Display           | Function         | Value     |
|---------|-------------------|------------------|-----------|
| CH-1    | Red               | Red dimming      | 0 --- 255 |
| CH-2    | Red adjustment    | Red adjustment   | 0 --- 255 |
| CH-3    | Green             | Green dimming    | 0 --- 255 |
| CH-4    | Green adjustment  | Green adjustment | 0 --- 255 |
| CH-5    | Blue              | Blue dimming     | 0 --- 255 |
| CH-6    | Blue adjustment   | Blue dimming     | 0 --- 255 |
| CH-7    | White             | White dimming    | 0 --- 255 |
| CH-8    | White adjustment  | White adjustment | 0 --- 255 |
| CH-9    | Color temperature | No               | 0--15     |
|         |                   | R100%,G UP,B0%   | 16--35    |
|         |                   | R DOWM,G100%,B0% | 36--55    |
|         |                   | R0%,G100%,B UP   | 56--75    |
|         |                   | R0%,G DOWM,B100% | 76--95    |
|         |                   | R UP,G0%,B100%   | 96--115   |

|               |                   |                       |             |
|---------------|-------------------|-----------------------|-------------|
| CH-9          | Color temperature | R100%,G0%,B DOWM      | 116--135    |
|               |                   | R100%,G UP,B UP       | 136--155    |
|               |                   | R DOWM,G DOWM, B 100% | 156--175    |
|               |                   | R100%G100%B100%W100%  | 176--195    |
|               |                   | 2800K                 | 196--200    |
|               |                   | 3200K                 | 201--205    |
|               |                   | 4000K                 | 206--210    |
|               |                   | 4500K                 | 211--215    |
|               |                   | 5000K                 | 216--220    |
|               |                   | 5600K                 | 221--225    |
|               |                   | 6500K                 | 226--230    |
|               |                   | 7000K                 | 231--235    |
|               |                   | 7500K                 | 236--240    |
|               |                   | 8000K                 | 241--255    |
|               |                   | CH-10                 | Macro color |
| Macro color 1 | 10--19            |                       |             |
| Macro color 2 | 20--29            |                       |             |
| .....         | .....             |                       |             |

|       |                 |   |           |
|-------|-----------------|---|-----------|
| CH-10 | Macro color     | Macro color 24                                  | 240--249  |
|       |                 | Macro color 25                                  | 250--255  |
| CH-11 | Dimmer          | dark to bright linear dimming                   | 0 --- 255 |
| CH-12 | Dimmer adjust   | Dimmer adjustment control                       | 0 --- 255 |
| CH-13 | Strobe          | Turn on the light                               | 0---3     |
|       |                 | Synchro strobe speed<br>slow to fast (1HZ-25HZ) | 4---203   |
|       |                 | Random strobe                                   | 204--255  |
| CH-14 | Pan             | Pan control                                     | 0 --- 255 |
| CH-15 | Pan adjustment  | Pan adjustment control                          | 0 --- 255 |
| CH-16 | Tilt            | Tilt control                                    | 0 --- 255 |
| CH-17 | Tilt adjustment | Tilt adjustment control                         | 0 --- 255 |
| CH-18 | Zoom            | Zoom  | 0-255     |
| CH-19 | Lens rotation   | 0~60°   | 0-155     |
|       |                 | Clockwise infinite rotation                     | 156-205   |
|       |                 | Counterclockwise rotation                       | 206-255   |
| CH-20 | Dimming Mode    | Mode -1   | 0 --- 49  |
|       |                 | Mode -2   | 50 --- 99 |
|       |                 | Mode -3   | 100---149 |

|       |       |                 |           |
|-------|-------|-----------------|-----------|
|       |       | Mode -4         | 150---255 |
| CH-21 | Reset | NO              | 0-250     |
|       |       | Reset within 5s | 251---255 |

## Model 2 - CH25

| Channel | Display         | Function                                      | Value     |
|---------|-----------------|---|-----------|
| CH-1    | Pan             | Pan control                                   | 0 --- 255 |
| CH-2    | Pan adjustment  | Pan Fine tuning control                       | 0 --- 255 |
| CH-3    | Tilt            | Tilt control                                  | 0 --- 255 |
| CH-4    | Tilt adjustment | Tilt Fine tuning control                      | 0 --- 255 |
| CH-5    | Pan/Tilt speed  | Speed from fast to slow                       | 0 --- 255 |
| CH-6    | Zoom            | Angle from small to large                     | 0 --- 255 |
| CH-7    | Lens rotation   | 0~60°   | 0-155     |
|         |                 | Clockwise infinite rotation from fast to slow | 156-205   |
|         |                 | Counterclockwise rotation from slow to fast   | 206-255   |
| CH-8    | Dimmer          | dark to bright linear dimming                 | 0 --- 255 |
| CH-9    | Strobe          | Turn on the light                             | 0---3     |

|       |                      |  |           |
|-------|----------------------|--|-----------|
| CH-9  | Strobe               | Synchro strobe speed<br>From slow to fast (1HZ-25HZ) | 4---203   |
|       |                      | Random strobe  | 204--255  |
| CH-10 | R dimming            | dark to bright linear dimming                        | 0-255     |
| CH-11 | G dimming            | dark to bright linear dimming                        | 0-255     |
| CH-12 | B dimming            | dark to bright linear dimming                        | 0-255     |
| CH-13 | W dimming            | dark to bright linear dimming                        | 0-255     |
| CH-14 | Color<br>temperature | No   | 0 ---15   |
|       |                      | R100%,G UP,B0%                                       | 16---35   |
|       |                      | R DOWM,G100%,B0%                                     | 36---55   |
|       |                      | R0%,G100%,B UP                                       | 56---75   |
|       |                      | R0%,G DOWM,B100%                                     | 76---95   |
|       |                      | R UP,G0%,B100%                                       | 96---115  |
|       |                      | R100%,G0%,B DOWM                                     | 116---135 |
|       |                      | R100%,G UP,B UP                                      | 136---155 |
|       |                      | R DOWM,G DOWM, B 100%                                | 156---175 |

|       |                   |                                |           |
|-------|-------------------|--------------------------------|-----------|
| CH-14 | Color temperature | R100%,G100%,B100%,W100%        | 176---195 |
|       |                   | 2800K                          | 196---200 |
|       |                   | 3200K                          | 201---205 |
|       |                   | 4000K                          | 206---210 |
|       |                   | 4500K                          | 211---215 |
|       |                   | 5000K                          | 216---220 |
|       |                   | 5500K                          | 221---225 |
|       |                   | 5600K                          | 226--230  |
|       |                   | 6500K                          | 231--235  |
|       |                   | 7000K                          | 236--240  |
|       |                   | 8000K                          | 241--245  |
| CH-15 | Macro color       | No                             | 0--9      |
|       |                   | Macro color 1                  | 10--19    |
|       |                   | Macro color 2                  | 20--29    |
|       |                   | ....(10 numbers 1 macro color) | ....      |
|       |                   | Macro color 24                 | 240--249  |
|       |                   | Macro color 25                 | 250--255  |
| CH-16 | Static pattern    | No                             | 0--9      |
|       |                   | Monochrome pattern 1           | 10--12    |

|       |                       |  |          |
|-------|-----------------------|--|----------|
| CH-16 | Static pattern        | Monochrome pattern 2                   | 13--15   |
|       |                       | .....(3 numbers 1 pattern)             | .....    |
|       |                       | Monochrome pattern 67                  | 208--210 |
|       |                       | Mixed color pattern 1                  | 211--213 |
|       |                       | Mixed color pattern 2                  | 214--216 |
|       |                       | ....(3 numbers 1 pattern)              | ....     |
|       |                       | Mixed color pattern 14                 | 250--252 |
|       |                       | Mixed color pattern 15                 | 253--255 |
| CH-17 | Dynamic pattern       | NO                                     | 0--9     |
|       |                       | Monochrome dynamic pattern 1           | 10--14   |
|       |                       | Monochrome dynamic pattern 2           | 15--19   |
|       |                       | .....(5 numbers 1 pattern)             | .....    |
|       |                       | Monochrome pattern 30                  | 155--159 |
|       |                       | Mixed color dynamic pattern 1          | 160--164 |
|       |                       | Mixed color dynamic pattern 2          | 165--169 |
|       |                       | .....(5 numbers 1 pattern)             | .....    |
|       |                       | Mixed color dynamic pattern 13         | 220--224 |
|       |                       | Mixed color dynamic pattern 14         | 225--255 |
|       | Dynamic pattern speed | Forward, from fast to slow (with 17CH) | 0--127   |

|       |  |                                       |           |
|-------|--|---------------------------------------|-----------|
| CH-18 |  | Reverse, from slow to fast(with 17CH) | 128--255  |
| CH-19 | Dynamic pattern speed (with 17 channels) | No                                    | 0--9      |
|       |  | Forward, from fast to slow            | 10--132   |
|       |  | Go backward, from slow to fast        | 133--255  |
| CH-20 | Back color R                             | dark to bright linear dimming         | 0-255     |
| CH-21 | Back color G                             | dark to bright linear dimming         | 0-255     |
| CH-22 | Back color B                             | dark to bright linear dimming         | 0-255     |
| CH-23 | Back color W                             | dark to bright linear dimming         | 0-255     |
| CH-20 | Dimming Mode                             | Mode -1                               | 0 --- 49  |
|       |  | Mode -2                               | 50 --- 99 |
|       |  | Mode -3                               | 100---149 |
|       |  | Mode -4                               | 150---255 |
| CH-25 | Reset                                    | NO                                    | 0-250     |
|       |  | Reset within 5s                       | 251-255   |

### Model 3 - CH33

| Channel | Display        | Function                | Value     |
|---------|----------------|-------------------------|-----------|
| CH-1    | Pan            | Pan control             | 0 --- 255 |
| CH-2    | Pan adjustment | Pan Fine tuning control | 0 --- 255 |

|       |                     |  |           |
|-------|---------------------|--|-----------|
| CH-3  | Tilt                | Tilt control   | 0 --- 255 |
| CH-4  | Tilt adjustment     | Tilt Fine tuning control                             | 0 --- 255 |
| CH-5  | Pan/Tilt speed      | Speed from fast to slow                              | 0 --- 255 |
| CH-6  | Zoom                | Angle from small to large                            | 0 --- 255 |
| CH-7  | Lens rotation       | 0~60°  | 0-155     |
|       |                     | Clockwise infinite rotation from fast to slow        | 156-205   |
|       |                     | Counterclockwise rotation from slow to fast          | 206-255   |
| CH-8  | Dimmer              | dark to bright linear dimming                        | 0 --- 255 |
| CH-9  | Dimming fine-tuning | Dimming fine-tuning control                          | 0--255    |
| CH-10 | Strobe              | Turn on the light                                    | 0---3     |
|       |                     | Synchro strobe speed<br>From slow to fast (1HZ-25HZ) | 4---203   |
|       |                     | Random strobe  | 204--255  |
| CH-11 | Red dimming         | Red dimming  | 0-255     |
| CH-12 | Red trim            | Red trim   | 0-255     |
| CH-13 | Green dimming       | Green dimming  | 0-255     |

|       |                   |                  |           |
|-------|-------------------|------------------|-----------|
| CH-14 | Green trim        | Green trim       | 0-255     |
| CH-15 | Blue dimming      | Blue dimming     | 0-255     |
| CH-16 | Blue trim         | Blue trim        | 0-255     |
| CH-17 | White dimming     | White dimming    | 0-255     |
| CH-18 | White trim        | White trim       | 0-255     |
| CH-19 | Dimming Mode      | Mode -1          | 0 --- 49  |
|       |                   | Mode -2          | 50 --- 99 |
|       |                   | Mode -3          | 100---149 |
|       |                   | Mode -4          | 150---255 |
| CH-20 | Color temperature | No               | 0 ---15   |
|       |                   | R100%,G UP,B0%   | 16---35   |
|       |                   | R DOWM,G100%,B0% | 36---55   |
|       |                   | R0%,G100%,B UP   | 56---75   |
|       |                   | R0%,G DOWM,B100% | 76---95   |
|       |                   | R UP,G0%,B100%   | 96---115  |
|       |                   | R100%,G0%,B DOWM | 116---135 |
|       |                   | R100%,G UP,B UP  | 136---155 |

|                                |                   |                         |             |
|--------------------------------|-------------------|-------------------------|-------------|
| CH-20                          | Color temperature | R DOWM,G DOWM, B 100%   | 156---175   |
|                                |                   | R100%,G100%,B100%,W100% | 176---195   |
|                                |                   | 2800K                   | 196---200   |
|                                |                   | 3200K                   | 201---205   |
|                                |                   | 4000K                   | 206---210   |
|                                |                   | 4500K                   | 211---215   |
|                                |                   | 5000K                   | 216---220   |
|                                |                   | 5500K                   | 221---225   |
|                                |                   | 5600K                   | 226--230    |
|                                |                   | 6500K                   | 231--235    |
|                                |                   | 7000K                   | 236--240    |
|                                |                   | 8000K                   | 241--245    |
|                                |                   | CH-21                   | Macro color |
| Macro color 1                  | 10--19            |                         |             |
| Macro color 2                  | 20--29            |                         |             |
| ....(10 numbers 1 macro color) | ....              |                         |             |
| Macro color 24                 | 240--249          |                         |             |
| Macro color 25                 | 250--255          |                         |             |

|       |                 |                                |          |
|-------|-----------------|--------------------------------|----------|
| CH-22 | Static pattern  | No                             | 0--6     |
|       |                 | Monochrome pattern 1           | 7--13    |
|       |                 | Monochrome pattern 2           | 14--20   |
|       |                 | .....(7 numbers 1 pattern)     | .....    |
|       |                 | Monochrome pattern 26          | 182--188 |
|       |                 | Mixed color pattern 1          | 189-195  |
|       |                 | Mixed color pattern 2          | 196--202 |
|       |                 | ....(7 numbers 1 pattern)      | ....     |
|       |                 | Mixed color pattern 8          | 245--251 |
|       |                 | Mixed color pattern 9          | 252--255 |
| CH-23 | Dynamic pattern | NO                             | 0--9     |
|       |                 | Monochrome dynamic pattern 1   | 10--12   |
|       |                 | Monochrome dynamic pattern 2   | 13--15   |
|       |                 | .....(3 numbers 1 pattern)     | .....    |
|       |                 | Monochrome pattern 57          | 178--180 |
|       |                 | Mixed color dynamic pattern 1  | 181--183 |
|       |                 | Mixed color dynamic pattern 2  | 184--186 |
|       |                 | .....(3numbers 1 pattern)      | .....    |
|       |                 | Mixed color dynamic pattern 18 | 232--234 |

|       |  |  |          |
|-------|--|--|----------|
|       |  | Mixed color dynamic pattern 19         | 235--255 |
| CH-24 | Pattern translation (with 23 channels)   | Select dynamic pattern scene           | 0--255   |
| CH-25 | Dynamic pattern speed (with 17 channels) | No                                     | 0--9     |
|       |  | Forward, from fast to slow             | 10--132  |
|       |  | Go backward, from slow to fast         | 133--255 |
| CH-26 | Pattern effect fade                      | Pattern effect fade                    | 0--255   |
| CH-27 | Background total dimming                 | Background total dimming from 0 - 100% | 0--255   |
| CH-28 | Background strobe                        | Background strobe                      | 0--255   |
| CH-29 | Back color Red                           | dark to bright linear dimming          | 0-255    |
| CH-30 | Back color Green                         | dark to bright linear dimming          | 0-255    |
| CH-31 | Back color Blue                          | dark to bright linear dimming          | 0-255    |
| CH-32 | Back color White                         | dark to bright linear dimming          | 0-255    |
| CH-33 | Reset                                    | NO                                     | 0-250    |
|       |  | Reset within 5s                        | 251-255  |

## Model 4 - CH 129

| Channel | Display             | Function                                      | Value     |
|---------|---------------------|---|-----------|
| CH-1    | Pan                 | Pan control                                   | 0 --- 255 |
| CH-2    | Pan adjustment      | Pan Fine tuning control                       | 0 --- 255 |
| CH-3    | Tilt                | Tilt control                                  | 0 --- 255 |
| CH-4    | Tilt adjustment     | Tilt Fine tuning control                      | 0 --- 255 |
| CH-5    | Pan/Tilt speed      | Speed from fast to slow                       | 0 --- 255 |
| CH-6    | Zoom                | Angle from small to large                     | 0 --- 255 |
| CH-7    | Lens rotation       | 0~60°   | 0-155     |
|         |                     | Clockwise infinite rotation from fast to slow | 156-205   |
|         |                     | Counterclockwise rotation from slow to fast   | 206-255   |
| CH-8    | Dimmer              | dark to bright linear dimming                 | 0 --- 255 |
| CH-9    | Dimming fine-tuning | Dimming fine-tuning control                   | 0--255    |
| CH-10   | Strobe              | Turn on the light                             | 0---3     |
|         |                     | Synchro strobe speed                          | 4---203   |
|         |                     | From slow to fast (1HZ-25HZ)                  |           |
|         |                     | Random strobe                                 | 204--255  |

|       |                   |                  |           |
|-------|-------------------|------------------|-----------|
| CH-11 | Red dimming       | Red dimming      | 0-255     |
| CH-12 | Red trim          | Red trim         | 0-255     |
| CH-13 | Green dimming     | Green dimming    | 0-255     |
| CH-14 | Green trim        | Green trim       | 0-255     |
| CH-15 | Blue dimming      | Blue dimming     | 0-255     |
| CH-16 | Blue trim         | Blue trim        | 0-255     |
| CH-17 | White dimming     | White dimming    | 0-255     |
| CH-18 | White trim        | White trim       | 0-255     |
| CH-19 | Dimming Mode      | Mode -1          | 0 --- 49  |
|       |                   | Mode -2          | 50 --- 99 |
|       |                   | Mode -3          | 100---149 |
|       |                   | Mode -4          | 150---255 |
| CH-20 | Color temperature | No               | 0 ---15   |
|       |                   | R100%,G UP,B0%   | 16---35   |
|       |                   | R DOWM,G100%,B0% | 36---55   |
|       |                   | R0%,G100%,B UP   | 56---75   |
|       |                   | R0%,G DOWM,B100% | 76---95   |
|       |                   | R UP,G0%,B100%   | 96---115  |

|               |                   |                         |             |
|---------------|-------------------|-------------------------|-------------|
| CH-20         | Color temperature | R100%,G0%,B DOWM        | 116---135   |
|               |                   | R100%,G UP,B UP         | 136---155   |
|               |                   | R DOWM,G DOWM, B 100%   | 156---175   |
|               |                   | R100%,G100%,B100%,W100% | 176---195   |
|               |                   | 2800K                   | 196---200   |
|               |                   | 3200K                   | 201---205   |
|               |                   | 4000K                   | 206---210   |
|               |                   | 4500K                   | 211---215   |
|               |                   | 5000K                   | 216---220   |
|               |                   | 5500K                   | 221---225   |
|               |                   | 5600K                   | 226--230    |
|               |                   | 6500K                   | 231--235    |
|               |                   | 7000K                   | 236--240    |
|               |                   | 8000K                   | 241--245    |
|               |                   | CH-21                   | Macro color |
| Macro color 1 | 10--19            |                         |             |
| Macro color 2 | 20--29            |                         |             |

|       |                 |                                |          |
|-------|-----------------|--------------------------------|----------|
| CH-21 | Macro color     | ....(10 numbers 1 macro color) | ....     |
|       |                 | Macro color 24                 | 240--249 |
|       |                 | Macro color 25                 | 250--255 |
| CH-22 | Static pattern  | No                             | 0--6     |
|       |                 | Monochrome pattern 1           | 7--13    |
|       |                 | Monochrome pattern 2           | 14--20   |
|       |                 | .....(7 numbers 1 pattern)     | ....     |
|       |                 | Monochrome pattern 26          | 182--188 |
|       |                 | Mixed color pattern 1          | 189-195  |
|       |                 | Mixed color pattern 2          | 196--202 |
|       |                 | ....(7 numbers 1 pattern)      | ....     |
|       |                 | Mixed color pattern 8          | 245--251 |
|       |                 | Mixed color pattern 9          | 252--255 |
| CH-23 | Dynamic pattern | NO                             | 0--9     |
|       |                 | Monochrome dynamic pattern 1   | 10--12   |
|       |                 | Monochrome dynamic pattern 2   | 13--15   |
|       |                 | .....(3 numbers 1 pattern)     | ....     |
|       |                 | Monochrome pattern 57          | 178--180 |
|       |                 | Mixed color dynamic pattern 1  | 181--183 |

|       |  |  |          |
|-------|--|--|----------|
| CH-23 | Dynamic pattern                          | Mixed color dynamic pattern 2          | 184--186 |
|       |  | .....(3numbers 1 pattern)              | .....    |
|       |  | Mixed color dynamic pattern 18         | 232--234 |
|       |  | Mixed color dynamic pattern 19         | 235--255 |
| CH-24 | Pattern translation (with 23 channels)   | Select dynamic pattern scene           | 0--255   |
| CH-25 | Dynamic pattern speed (with 17 channels) | No                                     | 0--9     |
|       |  | Forward, from fast to slow             | 10--132  |
|       |  | Go backward, from slow to fast         | 133--255 |
| CH-26 | Pattern effect fade                      | Pattern effect fade                    | 0--255   |
| CH-27 | Background total dimming                 | Background total dimming from 0 - 100% | 0--255   |
| CH-28 | Background strobe                        | Background strobe                      | 0--255   |
| CH-29 | Back color Red                           | dark to bright linear dimming          | 0-255    |
| CH-30 | Back color Green                         | dark to bright linear dimming          | 0-255    |
| CH-31 | Back color Blue                          | dark to bright linear dimming          | 0-255    |
| CH-32 | Back color White                         | dark to bright linear dimming          | 0-255    |
|       |  | NO                                     | 0-250    |

|        |                 |                     |         |
|--------|-----------------|---------------------|---------|
| CH-33  | Reset           | Reset within 5s     | 251-255 |
| CH-34  | R1 LED dimming  | Red1 LED dimming    | 0-250   |
| CH-35  | G1 LED dimming  | Green1 LED dimming  | 0-250   |
| CH-36  | B1 LED dimming  | Blue1 LED dimming   | 0-250   |
| CH-37  | W1 LED dimming  | White1 LED dimming  | 0-250   |
| CH-38  | .....           | .....               | .....   |
| CH-126 | R24 LED dimming | Red24 LED dimming   | 0-250   |
| CH-127 | G24 LED dimming | Green24 LED dimming | 0-250   |
| CH-128 | B24 LED dimming | Blue24 LED dimming  | 0-250   |
| CH-129 | W24 LED dimming | White24 LED dimming | 0-250   |

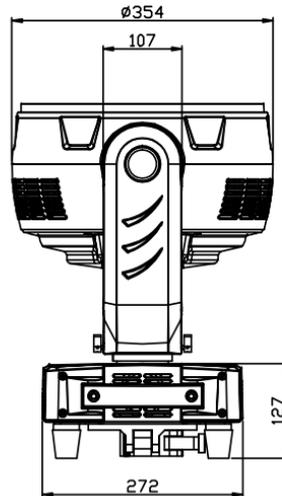
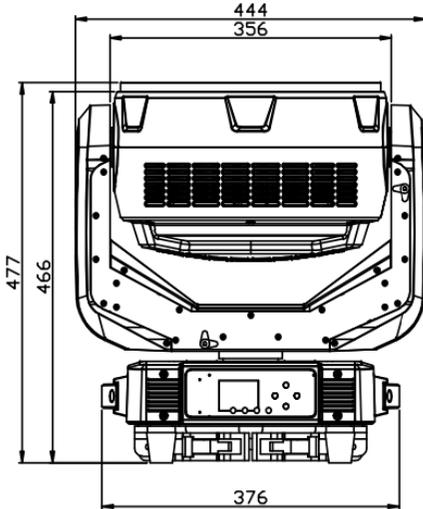
**Model 5 - 106 CH** (used with ArtNet, 1~10 channels are controlled by ordinary DMX512 signal, 11~106 channels are controlled by ArtNet signal)

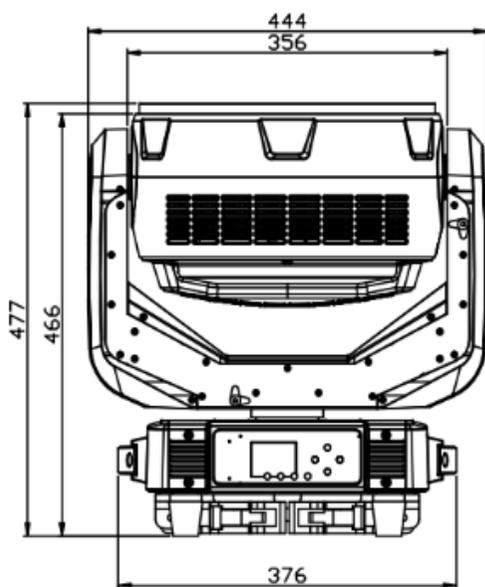
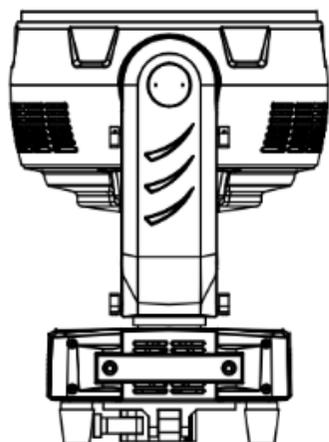
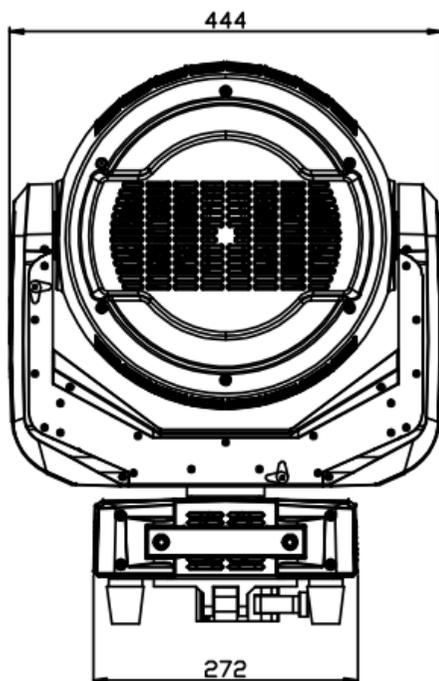
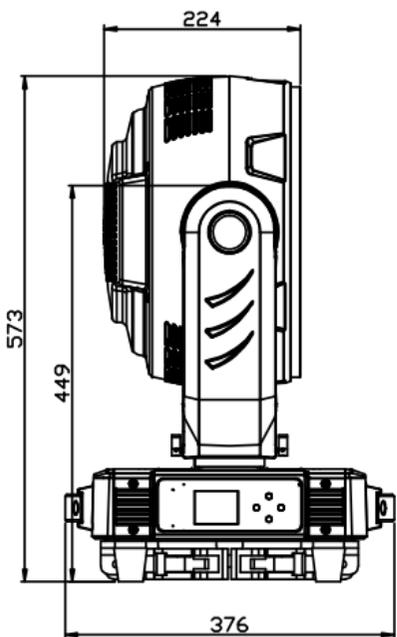
| Channel | Display        | Function                | Value     |
|---------|----------------|-------------------------|-----------|
| CH-1    | Pan            | Pan control             | 0 --- 255 |
| CH-2    | Pan adjustment | Pan Fine tuning control | 0 --- 255 |

|       |                 |  |           |
|-------|-----------------|--|-----------|
| CH-3  | Tilt            | Tilt control   | 0 --- 255 |
| CH-4  | Tilt adjustment | Tilt Fine tuning control                             | 0 --- 255 |
| CH-5  | XY speed        | Speed from fast to slow                              | 0 --- 255 |
| CH-6  | Zoom            | Angle from small to large                            | 0 --- 255 |
| CH-7  | Lens rotation   | 0~60°  | 0-155     |
|       |                 | Clockwise infinite rotation from fast to slow        | 156-205   |
|       |                 | Counterclockwise rotation from slow to fast          | 206-255   |
| CH-8  | Reset           | NO   | 0-250     |
|       |                 | Reset within 5s                                      | 251-255   |
| CH-9  | Dimmer          | dark to bright linear dimming                        | 0 --- 255 |
| CH-10 | Strobe          | Turn on the light                                    | 0---3     |
|       |                 | Synchro strobe speed<br>From slow to fast (1HZ-25HZ) | 4---203   |
|       |                 | Random strobe  | 204--255  |
| CH-11 | Red 1dimming    | Red1 dimming   | 0-255     |
| CH-13 | Green 1dimming  | Green1 dimming                                       | 0-255     |
| CH-15 | Blue1 dimming   | Blue1 dimming  | 0-255     |
| CH-17 | White1 dimming  | White1 dimming                                       | 0-255     |

|        |                |       |                              |
|--------|----------------|-------|------------------------------|
| .....  | .....          | ..... | .....                        |
| CH-103 | R24<br>dimming | LED   | Red24 LED dimming<br>0-250   |
| CH-104 | G24<br>dimming | LED   | Green24 LED dimming<br>0-250 |
| CH-105 | B24<br>dimming | LED   | Blue24 LED dimming<br>0-250  |
| CH-106 | W24<br>dimming | LED   | White24 LED dimming<br>0-250 |

## 6. Shape





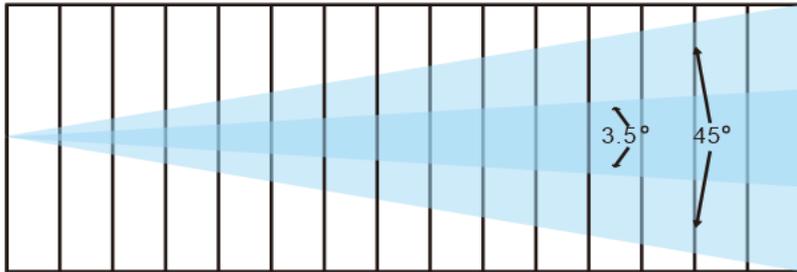
## 7.LUX Data

Beam Angle =3.5°

|          |        |       |       |       |
|----------|--------|-------|-------|-------|
| R lux    | 21000  | 14000 | 9450  | 4150  |
| G lux    | 42300  | 30700 | 20500 | 9520  |
| B lux    | 8860   | 6060  | 3890  | 1810  |
| W lux    | 52200  | 36100 | 24800 | 11400 |
| 4in1 lux | 113000 | 78200 | 54000 | 24800 |

Beam Angle =45°

|          |       |      |      |      |
|----------|-------|------|------|------|
| R lux    | 8570  | 1190 | 418  | 178  |
| G lux    | 17900 | 2650 | 991  | 430  |
| B lux    | 3520  | 530  | 198  | 86.7 |
| W lux    | 21300 | 3090 | 1150 | 508  |
| 4in1 lux | 47200 | 6690 | 2560 | 1120 |



|                        |  |      |      |      |      |
|------------------------|--|------|------|------|------|
| Distance (m)           |  | 1    | 3    | 5    | 8    |
| Spot diameter (m) 3.5° |  | 0.34 | 0.48 | 0.80 | 1.10 |
| Spot diameter (m) 45°  |  | 1.2  | 2.30 | 4.00 |      |

## 8.Trouble shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

### A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.

3. Check the power on LED.

## **B. Not responding to DMX controller**

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

## **C. One of the channels is not working well**

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

# **8. Fixture Cleaning**

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty

surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.