

## ***IP65 40x20W RGBW LED WALL WASH LIGHTS***

### ***USER MANUAL***



***For safety, please read this user manual carefully before initial use.***

Tealshine reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Tealshine assumes no liability or responsibility for any errors or omissions. Please consult Tealshine for any clarification or information regarding this item.

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## 1 Important Safety Information

| Symbol                                                                                              | Meaning                                                                                                                              |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|                    | General risk.                                                                                                                        |
|                    | Electric shock risk                                                                                                                  |
|                    | Hot surface                                                                                                                          |
|                  | Suitable for indoor use only.                                                                                                        |
| $T_a 45^{\circ}\text{C}$                                                                            | Maximum operating ambient temperature.                                                                                               |
|                  | Minimum distance from illuminated objects.                                                                                           |
|                  | Do not stare at the operating light source.                                                                                          |
| <br>Risk Group 2 | Photo-biological safety risk group2                                                                                                  |
|                  | Never expose the front lens to sunlight or any strong artificial Light source from any angle to avoid damage of head internal parts. |



European Community Directive 2012/19/EU on Waste Electrical and Electronic Equipment. (WEEE)

## 2 General Warning

Carefully read the instruction contained in this User Manual, as they give important information regarding your safety and others during installation, use, and maintenance of the product.

The unit is not suitable for domestic use and must be installed by qualified personnel only.

The device must always be equipped with an efficient ground connection.

## 3 Level of protection IP



- The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP65.
- The projector contains electric and electronic components which should under no circumstances come into contact with oil, water, or any other liquid. The proper functioning of the unit would be compromised should this occur.

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## 4 Included Items

- 1x PowerCON female connector
- 2x Omega clamp with ¼- turn “Fast Lock” connection(For moving head)
- Safety cable(Optional)
- Signal cable

## 5 General Warranty Conditions

The unit is guaranteed for 12 months from the date of purchase against manufacturing material defects.

The warranty covers defects in materials and workmanship. The warranty is not applicable where a defect is caused by misuse or unauthorized repair of the product.

Any functional or/and physical modification of the product is not allowed.

## 6 Product Installation

The unit is suitable for dry locations only.

The unit may be either floor or ceiling mounted.

### 6.1 Floor mounting

For floor mounting installations, This model is supplied with four rubber mounting feet at the base

## 6.2 Ceiling mounting

For ceiling mounting installations, we recommend the use of appropriate clamps to fix the unit to the mounting surface.

The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hang it.

The structure should also be sufficiently rigid as not to move or shake whilst the device is moving.

Four ¼-turn “Fast Lock” connections placed in the base of the unit allow this model to hang by using Omega brackets (provided with the unit).

## 6.3 Safety Cable

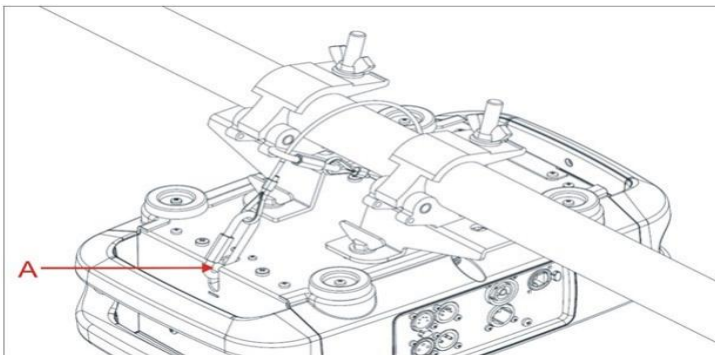


A safety cable must be securely fixed to this model and to the suspension truss in order to avoid the fixture accidentally falling, should the main fixing point fail.

The safety cable used must be approved by a notified body according to IEC 60598-2-17 and must be capable of bearing at least 10 times the weight of the unit. For more information,

please refer to an authorized service center.

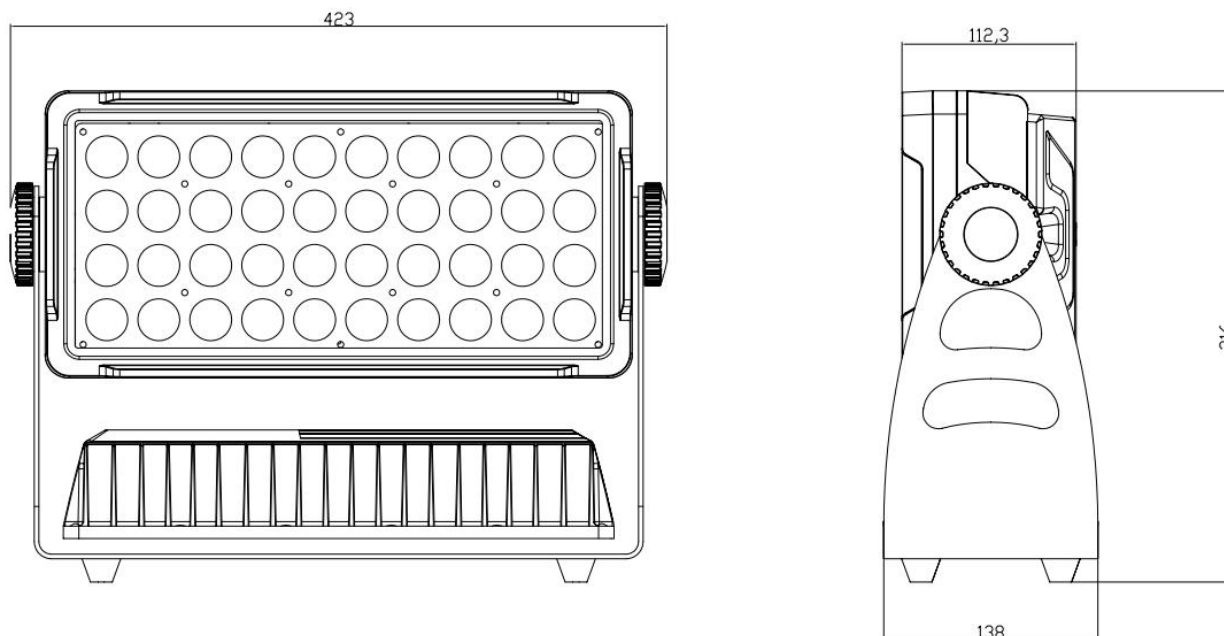
You may attach the safety cable to the attachment point (A) located at the base of the fixture, as shown in the picture as below.



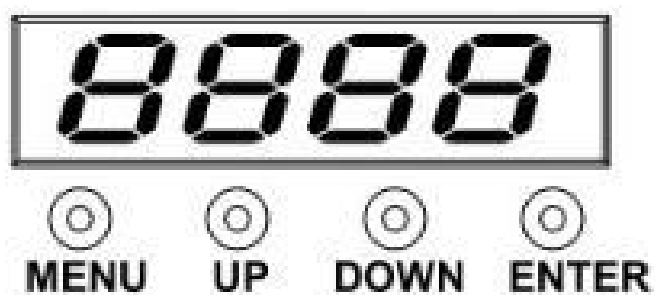
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## 7 Product Features

### 7.1 Dimensions



### 7.2 Menu Operation



|                  |                                                                                                                                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MENU</b>      | <ul style="list-style-type: none"><li>• To access the control menus in the display panel.</li><li>• To return to the previous level in the menu structure without saving any changes.</li><li>• To exit the menus.</li></ul> |
| <b>ENTER</b>     | <ul style="list-style-type: none"><li>• To select any desired menu.</li><li>• To confirm any selection made or save any changes.</li></ul>                                                                                   |
| <b>UP / DOWN</b> | <ul style="list-style-type: none"><li>• To navigate the menus' structure.</li><li>• To scroll between any values.</li></ul>                                                                                                  |

### 7.3 Menu

| Menu | Level 1  | Level 2         | Range                                   | Description                                                                                                                                                                                                                                                            |
|------|----------|-----------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | DMX Mode | Address         | 001-512                                 |                                                                                                                                                                                                                                                                        |
|      |          | CH              | 4CH/9CH/19CH/24CH/49CH/40CH             |                                                                                                                                                                                                                                                                        |
|      | Auto     | Dimmer          | 000-255                                 |                                                                                                                                                                                                                                                                        |
|      |          | Macro           | 01-63                                   |                                                                                                                                                                                                                                                                        |
|      |          | Speed           | 000-240                                 |                                                                                                                                                                                                                                                                        |
|      |          | Color Selection | R/G/B/GB/RB/RG/W                        |                                                                                                                                                                                                                                                                        |
|      | Manual   | Dimmer          | 000-000                                 |                                                                                                                                                                                                                                                                        |
|      |          | R               | 000-255                                 |                                                                                                                                                                                                                                                                        |
|      |          | G               | 000-255                                 |                                                                                                                                                                                                                                                                        |
|      |          | B               | 000-255                                 |                                                                                                                                                                                                                                                                        |
|      |          | W               | 000-255                                 |                                                                                                                                                                                                                                                                        |
|      | Voice    | Dimmer          | 000-255                                 |                                                                                                                                                                                                                                                                        |
|      |          | Macro           | 01-04                                   |                                                                                                                                                                                                                                                                        |
|      |          | Mic Sensitivity | 000-240                                 |                                                                                                                                                                                                                                                                        |
|      |          | Color Selection | R/G/B/GB/RB/RG/W                        |                                                                                                                                                                                                                                                                        |
|      | Setting  | Signal State    | Clear/Keep                              |                                                                                                                                                                                                                                                                        |
|      |          | Master Slave    | OFF/ON                                  | OFF: Don't send host data to the slave<br>ON: Send host data to the slave                                                                                                                                                                                              |
|      |          | Fan Mode        | Temperature-controlled fan/Keep running | Temperature-controlled fan:<br>The fan operates at 45°C and stops below 40°C. The issue may indicate a short circuit or open circuit in the temperature control system. The fan runs when the LED is on and stops for approximately 20 seconds when the LED turns off. |
|      |          | Dimmer Curve    | Linear/Square/Invsquare/S-curve         |                                                                                                                                                                                                                                                                        |
|      |          | Dimmer Bit      | 8bit/16bit                              |                                                                                                                                                                                                                                                                        |
|      |          | Dimmer Speed    | 000-255                                 |                                                                                                                                                                                                                                                                        |
|      |          | Dimmer PMW      | 1-14K                                   |                                                                                                                                                                                                                                                                        |
|      |          | Screen Saver    | OFF/ON                                  | OFF: Don't enter screen saver                                                                                                                                                                                                                                          |

|  |           |                     |                                                  |                                                                                                                                                               |
|--|-----------|---------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |           |                     |                                                  | ON:Enter screen saver after 30 seconds                                                                                                                        |
|  |           | Screen Locker       | OFF/ON                                           |                                                                                                                                                               |
|  |           | Language            | Chinese/English                                  |                                                                                                                                                               |
|  |           | Display flip        | OFF/ON                                           |                                                                                                                                                               |
|  |           | Reset Default       | OFF/ON                                           |                                                                                                                                                               |
|  | Lamp Info | Use Time            | 00:00                                            |                                                                                                                                                               |
|  |           | Current Temperature | xx℃                                              |                                                                                                                                                               |
|  |           | Max Temperature     | xx℃                                              |                                                                                                                                                               |
|  |           | Fan State           | OFF/ON                                           |                                                                                                                                                               |
|  |           | Version             | *****                                            |                                                                                                                                                               |
|  | ROOT      | R Current           | 20-255 (Default 235)                             | When 1 <sup>st</sup> level is on DMX mode,,press the menu for 4-5 seconds to enter ROOT mode.<br><br>(Sending)Send this master information to the slave unit. |
|  |           | G Current           | 20-255 (Default 235)                             |                                                                                                                                                               |
|  |           | B Current           | 20-255 (Default 235)                             |                                                                                                                                                               |
|  |           | W Current           | 20-255 (Default 235)                             |                                                                                                                                                               |
|  |           | Power Consumption   | 50-255 (Default 255)                             |                                                                                                                                                               |
|  |           | Temperature         | 40-80 (Default 60)                               |                                                                                                                                                               |
|  |           | Sending             | ON/OFF                                           |                                                                                                                                                               |
|  |           | R-Pos               | 01-04(Default 1)<br>Adjust the color of the LED  |                                                                                                                                                               |
|  |           | G-Pos               | 01-04 (Default 2)<br>Adjust the color of the LED |                                                                                                                                                               |
|  |           | B-Pos               | 01-04 (Default 3)<br>Adjust the color of the LED |                                                                                                                                                               |
|  |           | W-Pos               | 01-04 (Default 4)Adjust the color of the LED     |                                                                                                                                                               |

### **General operation of the setup menu:**

- Press the MENU button to ENTER the setup menu.
- Press the UP/DOWN buttons to browse the menu until the required function shows up.
- Select the functions with the ENTER button.
- Use UP/DOWN buttons to change the values.
- Press the ENTER button to confirm the selected values.
- Press the MENU button to return to a higher level in the menu or leave the setup menu.
- Press the MENU button during 2s to unlock the setup menu.
- Press the UP/DOWN buttons together to flip the display.

### **DMX setting menu:**

#### **DMX ADDRESS**

**Used to set the desired DMX address.**

- Press the UP/DOWN buttons to browse the menu until the required function shows up
- Press the ENTER button:the values can be changed
- Use UP/DOWN buttons to select the desired DMX512 address.The last occupied DMX address is also shown:make it easier to set the address of the next unit in the chain.
- Once the correct address shows on the display,press the ENTER button to save it.

## **7.4 DMX Chart**

### **CH4**

| CH | Function | Description                             |
|----|----------|-----------------------------------------|
| 1  | Red      | 0-100% Red dimmer from dark to bright   |
| 2  | Green    | 0-100% Green dimmer from dark to bright |
| 3  | Blue     | 0-100% Blue dimmer from dark to bright  |
| 4  | White    | 0-100% White dimmer from dark to bright |

### **CH9**

| CH | Function      | Description                                                                                                                                                                                                                                                                                                                        |
|----|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Master Dimmer | Master dimmer                                                                                                                                                                                                                                                                                                                      |
| 2  | Strobe        | Strobe                                                                                                                                                                                                                                                                                                                             |
| 3  | Macro         | 0--5:No functions<br>6--9:Jumping<br>10--13:Fading<br>14--17:Pulse<br>/*****/<br>Macro 4-59 All require use with a color push rod<br>/*****/<br>18--21:Macro 4<br>22--25:Macro 5<br>26--29:Macro 6<br>30--33:Macro 7<br>34--37:Macro 8<br>38--41:Macro 9<br>42--45:Macro 10<br>46--49:Macro 11<br>50--53:Macro12<br>54--57:Macro13 |



|   |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                               | 58--61:Macro14<br>62--65:Macro15<br>66--69:Macro16<br>70--73:Macro17<br>74--77:Macro18<br>78--81:Macro19<br>82--85:Macro20<br>86--89:Macro21<br>90--93:Macro22<br>94--97:Macro23<br>98--101:Macro 24<br>102--105:Macro 25<br>106--109:Macro 26<br>110--113:Macro 27<br>114--117:Macro 28<br>118--121:Macro 29<br>122--125:Macro 30<br>126--129:Macro 31<br>130--133:Macro 32<br>134--137:Macro 33<br>138--141:Macro 34<br>142--145:Macro 35<br>146--149:Macro 36<br>150--153:Macro 37<br>154--157:Macro 38<br>158--161:Macro 39<br>162--165:Macro 40<br>166--169:Macro 41<br>170--173:Macro 42<br>174--177:Macro 43<br>178--181:Macro 44<br>182--185:Macro 45<br>186--189:Macro 46<br>190--193:Macro 47<br>194--197:Macro48<br>198--201:Macro49<br>202--205:Macro50<br>206--209:Macro51<br>210--213:Macro52<br>214--217:Macro53<br>218--221:Macro54<br>222--225:Macro55<br>226--229:Macro56<br>230--233:Macro57<br>234--237:Macro58<br>238--241:Macro59<br>242--245:Macro60,no color selection<br>246--249:Macro61 ,no color selection<br>250--253:Macro62,no color selection<br>254:Macro63,no color selection<br>255:Sound control |
| 4 | Macro Speed                   | Macro speed from slow to fast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5 | Red Dimmer                    | 0-100% Red dimmer from dark to bright                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6 | Green Dimmer                  | 0-100% Green dimmer from dark to bright                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 7 | Blue Dimmer                   | 0-100% Blue dimmer from dark to bright                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 8 | White Dimmer                  | 0-100% White dimmer from dark to bright                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 9 | Background Color for Patterns | Color selection1-37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## CH19

| CH | Function      | Description   |
|----|---------------|---------------|
| 1  | Master Dimmer | Master dimmer |

|   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | Strobe      | Strobe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3 | Macro       | 0--5: No functions<br>6--9: Jumping<br>10--13: Fading<br>14--17: Pulse<br>/*****/<br>Macro4-59 All require use with a color push rod<br>/*****/<br>18--21: Macro4<br>22--25: Macro5<br>26--29: Macro6<br>30--33: Macro7<br>34--37: Macro8<br>38--41: Macro9<br>42--45: Macro10<br>46--49: Macro11<br>50--53: Macro12<br>54--57: Macro13<br>58--61: Macro14<br>62--65: Macro15<br>66--69: Macro16<br>70--73: Macro17<br>74--77: Macro18<br>78--81: Macro19<br>82--85: Macro20<br>86--89: Macro21<br>90--93: Macro22<br>94--97: Macro23<br>98--101: Macro24<br>102--105: Macro25<br>106--109: Macro26<br>110--113: Macro27<br>114--117: Macro28<br>118--121: Macro29<br>122--125: Macro30<br>126--129: Macro31<br>130--133: Macro32<br>134--137: Macro33<br>138--141: Macro34<br>142--145: Macro35<br>146--149: Macro36<br>150--153: Macro37<br>154--157: Macro38<br>158--161: Macro39<br>162--165: Macro40<br>166--169: Macro41<br>170--173: Macro42<br>174--177: Macro43<br>178--181: Macro44<br>182--185: Macro45<br>186--189: Macro46<br>190--193: Macro47<br>194--197: Macro48<br>198--201: Macro49<br>202--205: Macro50<br>206--209: Macro51<br>210--213: Macro52<br>214--217: Macro53<br>218--221: Macro54<br>222--225: Macro55<br>226--229: Macro56<br>230--233: Macro57<br>234--237: Macro58<br>238--241: Macro59<br>242--245: Macro 60, no color selection<br>246--249: Macro 61, no color selection<br>250--253: Macro 62, no color selection<br>254: Macro63, no color selection<br>255: Sound control |
| 4 | Macro Speed | Macro speed from slow to fast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 5 | Red Dimmer  | 0-100% Red dimmer from dark to bright                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|       |                               |                                         |
|-------|-------------------------------|-----------------------------------------|
| 6     | Green Dimmer                  | 0-100% Green dimmer from dark to bright |
| 7     | Blue Dimmer                   | 0-100% Blue dimmer from dark to bright  |
| 8     | White Dimmer                  | 0-100% White dimmer from dark to bright |
| 9     | Background Color for Patterns | Color selection1-37                     |
| 10    | 1 Dimmer                      | 0-100% 1 dimmer from dark to bright     |
| ..... | .....                         | .....                                   |
| 19    | 10 Dimmer                     | 0-100% 10 dimmer from dark to bright    |

## 24CH

| CH | Function              | Description                                                                                                                                                                                                                                                                                                                                                   |
|----|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Master Dimmer         | Master Dimmer                                                                                                                                                                                                                                                                                                                                                 |
| 2  | Master Strobe         | 0-5 No functions;<br>6-255 Strobe from slow to fast                                                                                                                                                                                                                                                                                                           |
| 3  | Red Dimmer            | 0-100% Red dimmer from dark to bright                                                                                                                                                                                                                                                                                                                         |
| 4  | Green Dimmer          | 0-100% Green dimmer from dark to bright                                                                                                                                                                                                                                                                                                                       |
| 5  | Blue Dimmer           | 0-100% Blue dimmer from dark to bright                                                                                                                                                                                                                                                                                                                        |
| 6  | White Dimmer          | 0-100% White dimmer from dark to bright                                                                                                                                                                                                                                                                                                                       |
| 7  | Pixel Dimmer          | Pixel Dimmer(Must be pushed up when enabling pixel control)                                                                                                                                                                                                                                                                                                   |
| 8  | Pixel Strobe          | 0-5 No functions;<br>6-255 Strobe from slow to fast                                                                                                                                                                                                                                                                                                           |
| 9  | Red in Pixel Dimmer   | Red in pixel saturation control (0-100%)(13-24 push up)                                                                                                                                                                                                                                                                                                       |
| 10 | Green in Pixel Dimmer | Green in pixel saturation control (0-100%)(13-24 push up)                                                                                                                                                                                                                                                                                                     |
| 11 | Blue in Pixel Dimmer  | Blue in pixel saturation control(0-100%)(13-24 push up)                                                                                                                                                                                                                                                                                                       |
| 12 | White in Pixel Dimmer | White in pixel saturation control(0-100%)(13-24 push up)                                                                                                                                                                                                                                                                                                      |
| 13 | Macro                 | 0--5:No functions;<br>6--9:Jumping<br>10--13:Fading<br>14--17:Pulse<br>/*****/<br>Macro4-59All require use with a color push rod<br>/*****/<br>18--21:Macro4<br>22--25:Macro5<br>26--29:Macro6<br>30--33:Macro7<br>34--37:Macro8<br>38--41:Macro9<br>42--45:Macro10<br>46--49:Macro11<br>50--53:Macro12<br>54--57:Macro13<br>58--61:Macro14<br>62--65:Macro15 |

|    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |              | 66--69:Macro16<br>70--73:Macro17<br>74--77:Macro18<br>78--81:Macro19<br>82--85:Macro20<br>86--89:Macro21<br>90--93:Macro22<br>94--97:Macro23<br>98--101:Macro24<br>102--105:Macro25<br>106--109:Macro26<br>110--113:Macro27<br>114--117:Macro28<br>118--121:Macro29<br>122--125:Macro30<br>126--129:Macro31<br>130--133:Macro32<br>134--137:Macro33<br>138--141:Macro34<br>142--145:Macro35<br>146--149:Macro36<br>150--153:Macro37<br>154--157:Macro38<br>158--161:Macro39<br>162--165:Macro40<br>166--169:Macro41<br>170--173:Macro42<br>174--177:Macro43<br>178--181:Macro44<br>182--185:Macro45<br>186--189:Macro46<br>190--193:Macro47<br>194--197:Macro48<br>198--201:Macro49<br>202--205:Macro50<br>206--209:Macro51<br>210--213:Macro52<br>214--217:Macro53<br>218--221:Macro54<br>222--225:Macro55<br>226--229:Macro56<br>230--233:Macro57<br>234--237:Macro58<br>238--241:Macro59<br>242--245:Macro60,no color selections<br>246--249:Macro61,no color selections<br>250--253:Macro62,no color selections<br>254:Macro63,no color selections<br>255:Sound control |
| 14 | Macro Speed  | Macro speed from slow to fast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 15 | LED1 Dimmer  | Pixel 1 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 16 | LED2 Dimmer  | Pixel 2 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 17 | LED3 Dimmer  | Pixel 3 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 18 | LED4 Dimmer  | Pixel 4 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 19 | LED5 Dimmer  | Pixel 5 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 20 | LED6 Dimmer  | Pixel 6 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 21 | LED7 Dimmer  | Pixel 7 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 22 | LED8 Dimmer  | Pixel 8 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 23 | LED9 Dimmer  | Pixel 9 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 24 | LED10 Dimmer | Pixel 10 saturation control (0-100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## 49CH

| CH | Function      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Master Dimmer | Master Dimmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2  | Strobe        | Strobe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3  | Macro         | <p>0--5:No functions<br/>         6--9:Jumping<br/>         10--13:Fading<br/>         14--17:Pulse<br/>         /*****/<br/>         Macro4-59All require use with a color push rod<br/>         /*****/<br/>         18--21:Macro4<br/>         22--25:Macro5<br/>         26--29:Macro6<br/>         30--33:Macro7<br/>         34--37:Macro8<br/>         38--41:Macro9<br/>         42--45:Macro10<br/>         46--49:Macro11<br/>         50--53:Macro12<br/>         54--57:Macro13<br/>         58--61:Macro14<br/>         62--65:Macro15<br/>         66--69:Macro16<br/>         70--73:Macro17<br/>         74--77:Macro18<br/>         78--81:Macro19<br/>         82--85:Macro20<br/>         86--89:Macro21<br/>         90--93:Macro22<br/>         94--97:Macro23<br/>         98--101:Macro24<br/>         102--105:Macro25<br/>         106--109:Macro26<br/>         110--113:Macro27<br/>         114--117:Macro28<br/>         118--121:Macro29<br/>         122--125:Macro30<br/>         126--129:Macro31<br/>         130--133:Macro32<br/>         134--137:Macro33<br/>         138--141:Macro34<br/>         142--145:Macro35<br/>         146--149:Macro36<br/>         150--153:Macro37<br/>         154--157:Macro38<br/>         158--161:Macro39<br/>         162--165:Macro40<br/>         166--169:Macro41<br/>         170--173:Macro42<br/>         174--177:Macro43<br/>         178--181:Macro44<br/>         182--185:Macro45<br/>         186--189:Macro46<br/>         190--193:Macro47<br/>         194--197:Macro48<br/>         198--201:Macro49<br/>         202--205:Macro50<br/>         206--209:Macro51<br/>         210--213:Macro52<br/>         214--217:Macro53<br/>         218--221:Macro54<br/>         222--225:Macro55<br/>         226--229:Macro56<br/>         230--233:Macro57<br/>         234--237:Macro58</p> |

|       |                                  |                                                                                                                                                                                                  |
|-------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |                                  | 238--241:Macro59<br>242--245:Macro60,no color selections<br>246--249:Macro61,no color selections<br>250--253:Macro62,no color selections<br>254:Macro63,no color selections<br>255:Sound control |
| 4     | Macro Speed                      | Macro speed from slow to fast                                                                                                                                                                    |
| 5     | Red Dimmer                       | 0-100% Red dimmer from dark to bright                                                                                                                                                            |
| 6     | Green Dimmer                     | 0-100% Green dimmer from dark to bright                                                                                                                                                          |
| 7     | Blue Dimmer                      | 0-100% Blue dimmer from dark to bright                                                                                                                                                           |
| 8     | White Dimmer                     | 0-100% White dimmer from dark to bright                                                                                                                                                          |
| 9     | Background Color<br>for Patterns | Color selection1-37                                                                                                                                                                              |
| 10    | R1 Dimmer                        | 0-100% Red 1 dimmer from dark to bright                                                                                                                                                          |
| 11    | G1 Dimmer                        | 0-100% Green 1 dimmer from dark to bright                                                                                                                                                        |
| 12    | B1 Dimmer                        | 0-100% Blue 1 dimmer from dark to bright                                                                                                                                                         |
| 13    | W1 Dimmer                        | 0-100% White 1 dimmer from dark to bright                                                                                                                                                        |
| ..... | .....                            | .....                                                                                                                                                                                            |
| 46    | R10 Dimmer                       | 0-100% Red 10 dimmer from dark to bright                                                                                                                                                         |
| 47    | G10Dimmer                        | 0-100% Green 10 dimmer from dark to bright                                                                                                                                                       |
| 48    | B10 Dimmer                       | 0-100% Blue 10 dimmer from dark to bright                                                                                                                                                        |
| 49    | W10 Dimmer                       | 0-100% White 10 dimmer from dark to bright                                                                                                                                                       |

#### 40CH

| CH    | Function   | Description                                |
|-------|------------|--------------------------------------------|
| 1     | R1 Dimmer  | 0-100% Red 1 dimmer from dark to bright    |
| 2     | G1 Dimmer  | 0-100% Green 1 dimmer from dark to bright  |
| 3     | B1 Dimmer  | 0-100% Blue 1 dimmer from dark to bright   |
| 4     | W1 Dimmer  | 0-100% White 1 dimmer from dark to bright  |
| ..... | .....      | .....                                      |
| 37    | R10 Dimmer | 0-100% Red 10 dimmer from dark to bright   |
| 38    | G10 Dimmer | 0-100% Green 10 dimmer from dark to bright |
| 39    | B10 Dimmer | 0-100% Blue 10 dimmer from dark to bright  |
| 40    | W10 Dimmer | 0-100% White 10 dimmer from dark to bright |

The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, there is channel modes: 14/16, if we set the mode at standard 16 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 17, third one at 33, etc.

- If the devices have the same address, they will behave synchronically.
- Display is flashing when no DMX signal is received.

## **8 More Functions**

- Software upgrade function via DMX cable. If there is any new firmware for this device, it can be upgraded simply via a software upgrade box, without the need to change any mechanical parts. The upgrade box is not included in the package, if you need any further assistance please contact your authorized dealer.
- Hibernation. The device will enter standby mode if activated after a period of disconnecting DMX signal to save power and will wake immediately when the DMX signal is sent or received again.

## **9 Technical Specifications**

### **Power**

- Input Voltage: 90~260V AC, 50/60Hz
- Power Consumption: 550W
- Fuse: F5A, 250V

### **Photometric**

- Light Source: 40\*20W RGBW LEDs
- PWM: 1,000Hz
- LED Lifespan: 50,000hours
- Beam angle: 60°

### **Effects**

- Dimmer: 0~100%
- Full color control individually
- Pulse effect
- Strobe: 1-30Hz
- Pure smooth Color Mixing
- Different kinds of preset macro effects with variable speed

### **Control**

- Protocol: DMX512, master-slave, sound activated or auto operation
- DMX Channels: 4/9/19/24/49/40
- IP65 3-pin XLR IN/OUT
- IP65 PowerCon IN/OUT
- Display: 4-button LED display control panel

### **Housing**

- Materials: Aluminium die-cast
- Finishing: Matte black

- IP rating: IP65
- Cooling: Fan
- Net weight: 7.3kgs
- Gross weight: 8.6kgs
- Product dimension: 423\*138\*316mm
- Rigging: Power cable, signal cable, safety chain

### ***Cooling System***

- Advanced cooling system integrated aluminum
- Efficient low noise self adjusting fan cooling system
- Constant temperature readout and management function
- Over temperature protection management

### ***Working Environment***

- Maximum Ambient Temperature: 45°C
- Minimum Operating Temperature: -10°C
- Protection Rating: IP65

### ***Approvals***

- CE compliant
- RoHS compliant

## **10 Periodic Cleaning**



**WARNING! Disconnect from mains before servicing.**

### **10.1 Mechanical Parts**

Periodically check all mechanical parts, gears, guides, belts, etc., for wear and tear. Replace them if necessary.

Periodically check the lubrication of all components, particularly the parts subjected to high temperatures. If necessary, apply suitable lubricant (available from factory) where needed.

Check the tension of the belts and adjust them where necessary.

### **10.2 Electrical Components**

Check all electrical components for correct earthing and proper connection of all connectors. Refasten where necessary.