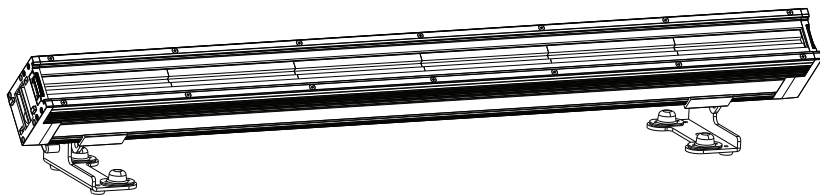


# SPECTRABAR 600

IP65 64X8W RGBL WASH, FX & PIXEL MAPPING BAR



## USER MANUAL



PRODUCT  
DOCUMENTATION



DMX  
CHART

[www.cyclopslighting.com](http://www.cyclopslighting.com)

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***Please read carefully before use***

*Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.*

# 1. SAFETY INFORMATION

Before you operate this unit read the manual carefully. Always make sure to include the manual if you pass/rent/sell the unit to another user. Keep in mind that this manual cannot address all possible dangers and environments. Please use your own caution when operating. This product is for professional use only. It is not for household use.



- Do not operate the unit in areas of high temperature conditions. It will cause abnormal function or damage the product.
- Always use a suitable safety wire when mounting the light overhead.
- Connect the safety wire only to the intended safety mount.
- Always follow local safety requirements.



- Only qualified personnel may repair this product.
- Do not open the product housing.
- Do not apply power if the light is damaged.



- Do not directly look into the light.
- It can cause harm to your eyes.
- Do not look at the LEDs with a magnifying glass or any other optical instrument that may concentrate the light output.
- Please don't look at the light directly when the light's radiation temperature reach 40 °C



- The exterior surfaces of the light can become hot, up to 55°C during normal operation.
- Ensure that accidental physical contact with the device is impossible.
- Install only in ventilated locations.
- Do not cover the light.



- Always charge with the flight case open.
- It is recommended to charge at a temperature between 15°C and 35°C



- Do not look directly at the light source.



- Don't throw the unit into the garbage at the end of its lifetime.
- Make sure to dispose is according to your local ordinances and/or regulations, to avoid polluting the environment!
- The packaging is recyclable and can be disposed.



—2.0m ta 45 °C

## 2. TECHNICAL SPECIFICATIONS

### 1. Standard Configuration

- 1x SPECTRABAR 600
- 1x True one power cable

### 2. Control Functions

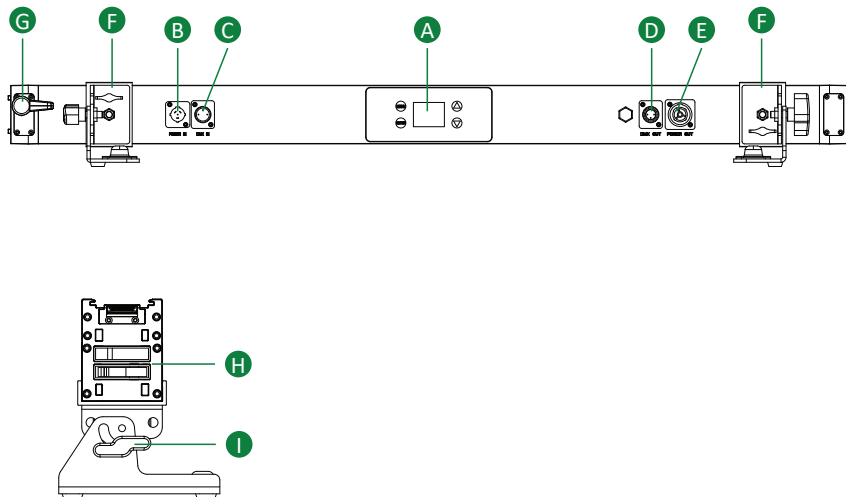
- 3/4/8/12/16/17/25/32/64/73CH
- Master&Slave mode
- CRMX Wireless DMX(optional)
- VISION APP(optional)

### 3. Features

- Light Source: Main Led Panel: 64\*8W RGBL
- Beam Angle: 30x70° (average)
- Field Angle: 60x120° (average)
- Type of optical system: AP04-long strip lens
- Color Temperature (at full): 12000k
- Power consumption: 150W
- Input voltage, nominal: 100 - 240V 50/60Hz
- Efficacy: 72.3lm/w
- Light output all LEDs on: 10937 LM
- Illuminance Lux @ 2m: 3085 lx
- Illuminance Lux @ 5m: 490 lx
- Illuminance Lux @ 8m: 191 lx
- Illuminance Lux @ 10m: 122 lx
- Run Mode: DMX 512 /Master Slave/Auto Run
- Wireless DMX from Sweden
- 4 different dimming curve
- Strobe: 0 - 20Hz adjustable
- Tilt: 0-90°
- Pixel control: 16 Sections
- IP65
- Temperature: -40℃ ~ 40℃
- N.W: 7.5 KG
- Dimensions: 1005 x 174 x 140mm

### 3. DEVICE OVERVIEW

#### 1. Connections



A: LCD Screen

B: Power In

C: DMX In

D: DMX Out

E: Power Out

F: Sliding stand

G: Knob

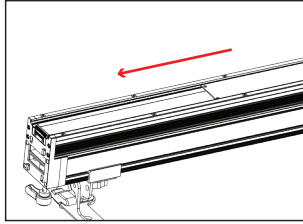
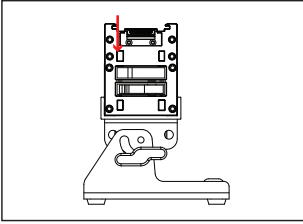
H: Double locking system

I: Knob 0-90°

## 4. INSTALLATION

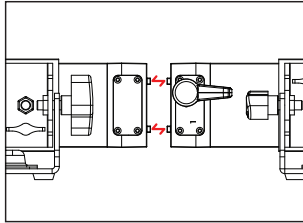
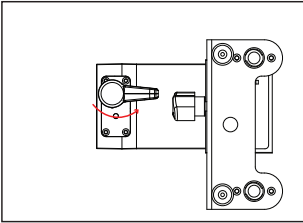
1. Customize your setup with various accessories to achieve diverse lighting effects and installation configurations. Options include:

- *Frost filter*

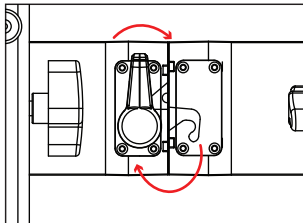
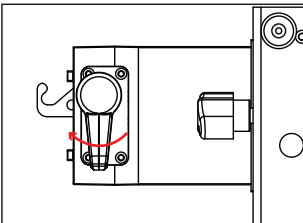


Press the mechanisms on the sides of the end cover. Slide the frost filter into position. Release the mechanisms to lock the frost filter.

## SPLICING

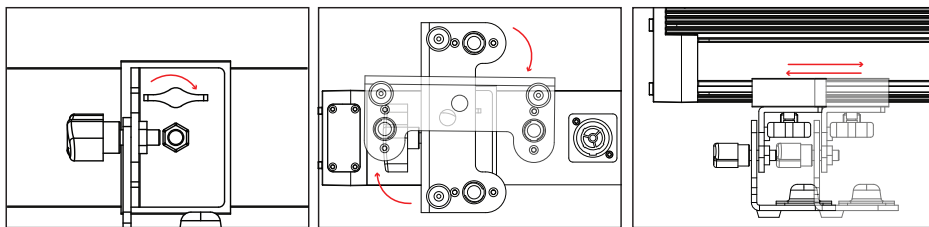


1. Before connecting, rotate the hook fully counterclockwise to the end positions.
2. Use the positioning blocks to align both ends of the fixtures.



3. Insert the connecting pin into the hole of one end cap. Rotate the C-lock clockwise to secure it.
4. Insert the opposite end of the pin into the hole of the other end cap. Rotate that C-lock clockwise to complete the connection.

## ROTATION & TRANSLATION BRACKET OPERATION



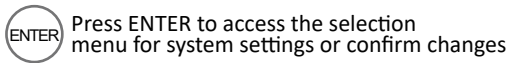
1. Rotate the knob clockwise to unlock.
2. The stand can be rotated 360 degrees.
3. The stand can be translated left/right laterally.

## 5. CONTROL PANEL

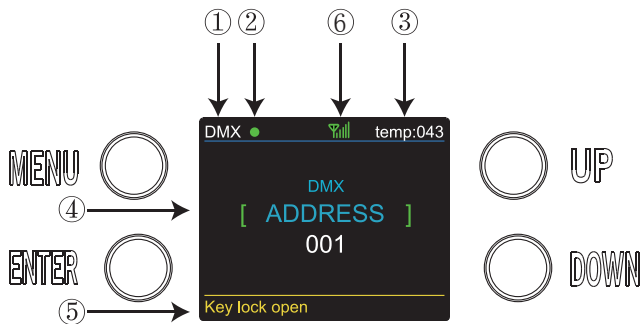
### 5.1. Control Display



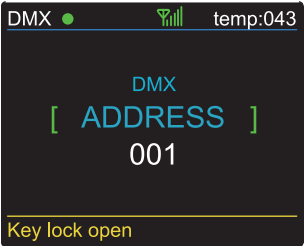
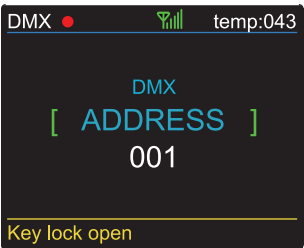
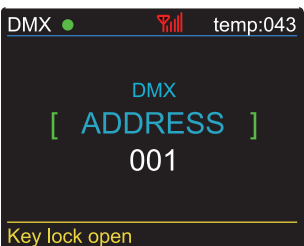
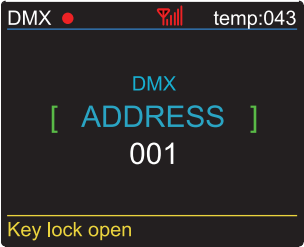
Press arrows to scroll up and down inside the menu and change values, such as DMX address

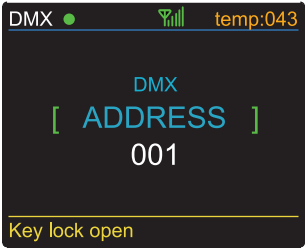
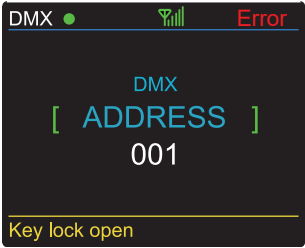


### 5.2. Displayer Introduction

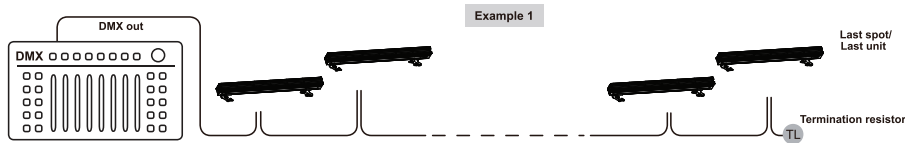


1. When you enter DMX Mode, it will be showed DMX, when you enter SLAVE Mode, it will be showed SLAVE.
2. This shows the condition of signal transmission. Green is connected. Red is disconnected.
3. This shows the temperature of the lights.
4. This shows the menus you can select.
5. This shows the condition of key lock. "Key lock open" means it is open and "Key lock off" means it is close.
6. This shows the condition of wireless signal. Green is connected. Red is disconnected.

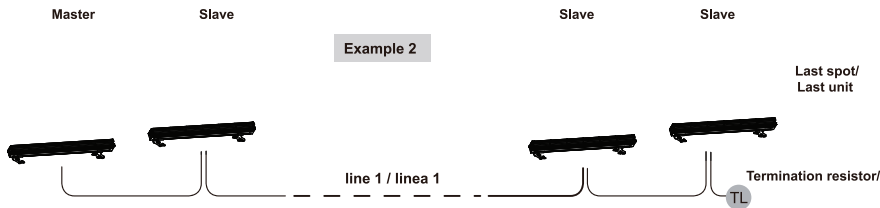
|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  <p>The screenshot shows a black screen with a status bar at the top. On the left, 'DMX' is followed by a green dot. In the center, there is a green wireless signal icon. On the right, 'temp:043' is displayed. The main area contains the text 'DMX' in blue, '[ ADDRESS ]' in green, and '001' in white. At the bottom, 'Key lock open' is written in yellow.</p> | <p>While DMX and Wireless signal are green,it means DMX Mode and Wireless are connected.</p>                            |
|  <p>The screenshot shows a black screen with a status bar at the top. On the left, 'DMX' is followed by a red dot. In the center, there is a green wireless signal icon. On the right, 'temp:043' is displayed. The main area contains the text 'DMX' in blue, '[ ADDRESS ]' in green, and '001' in white. At the bottom, 'Key lock open' is written in yellow.</p>   | <p>While DMX shows red but Wireless signal shows green,it means DMX Mode is disconnected and Wireless is connected.</p> |
|  <p>The screenshot shows a black screen with a status bar at the top. On the left, 'DMX' is followed by a green dot. In the center, there is a red wireless signal icon. On the right, 'temp:043' is displayed. The main area contains the text 'DMX' in blue, '[ ADDRESS ]' in green, and '001' in white. At the bottom, 'Key lock open' is written in yellow.</p>  | <p>While DMX shows green but Wireless signal shows red,it means DMX Mode is connected and Wireless is disconnected.</p> |
|  <p>The screenshot shows a black screen with a status bar at the top. On the left, 'DMX' is followed by a red dot. In the center, there is a red wireless signal icon. On the right, 'temp:043' is displayed. The main area contains the text 'DMX' in blue, '[ ADDRESS ]' in green, and '001' in white. At the bottom, 'Key lock open' is written in yellow.</p>   | <p>While DMX and Wireless are show red,it means DMX Mode and Wireless are disconnected.</p>                             |

|                                                                                   |                                                                                                                                            |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>While the letters and number show change from white to yellow, it means the temperature beyond max temperature of default settings.</p> |
|  | <p>While the letters and numbers show Error, it means they have some problems with temperature.</p>                                        |

1.DMX connection



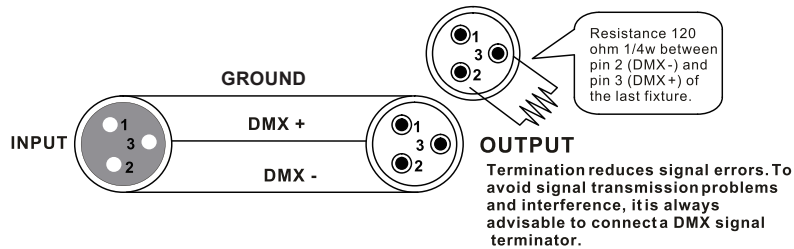
2.Master / Slave connection



### 3.CABLE CONNECTORS

Cabling must have a male XLR connector on one's end and a female XLR connector on the other's end.

DMX connector configuration



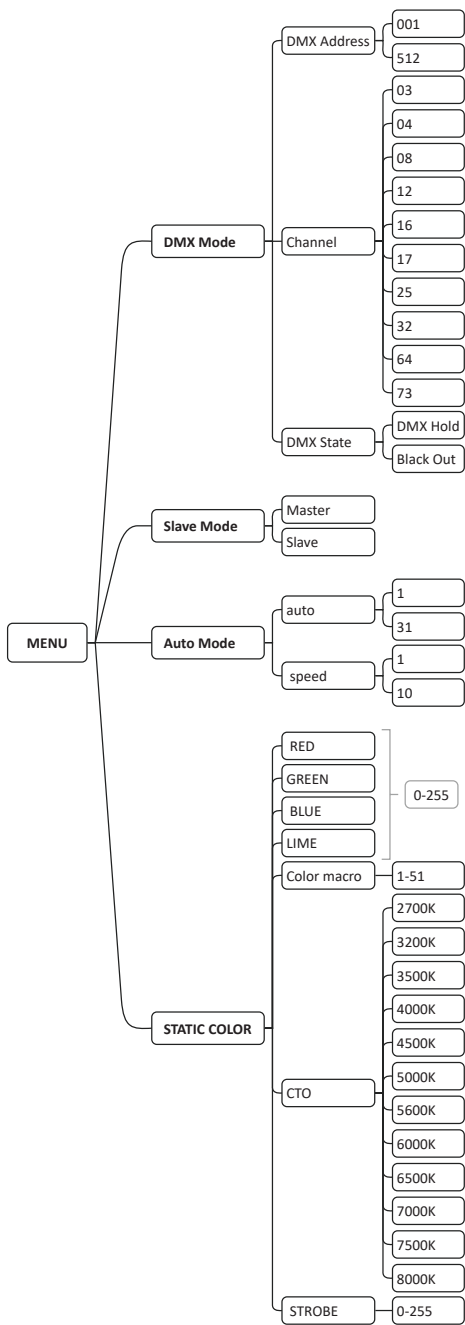
Caution: Do not allow contact between the ground and the fixture's chassis ground. Grounding the ground can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify positive pole and to make sure the pins are not grounded or shorted to the shield or each other.

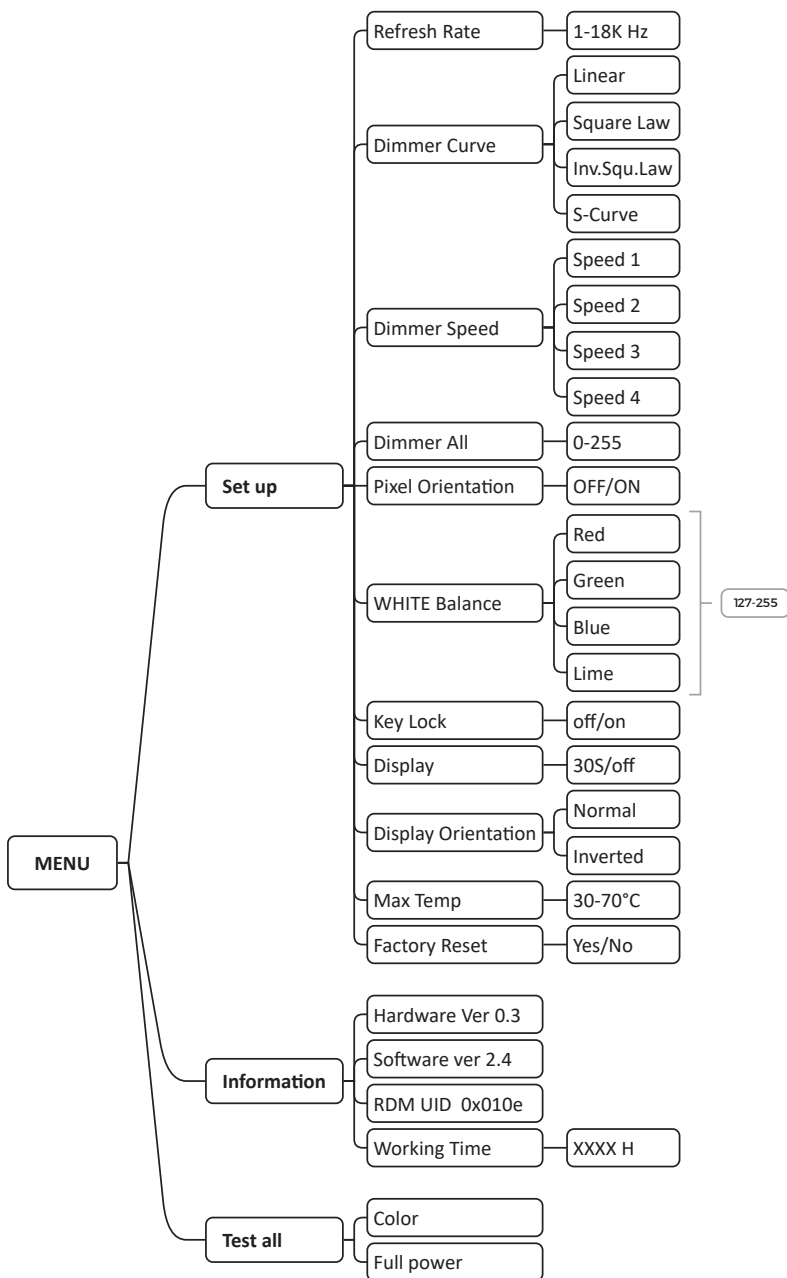
### 3-PIN TO 5-PIN CONVERSION CHART

Please note if you use a controller with a 5 pin DMX output connector, you need to use a 5 pin to 3 pin adapter. The chart below details a proper cable conversion:

| 3-PIN TO 5-PIN CONVERSION CHART |                       |                    |
|---------------------------------|-----------------------|--------------------|
| Conductor                       | 3 Pin Female (output) | 5 Pin Male (Input) |
| Ground/Shield                   | Pin 1                 | Pin 1              |
| Data ( - ) signal               | Pin 2                 | Pin 2              |
| Data ( + ) signal               | Pin 3                 | Pin 3              |
| Do not use                      |                       | Do not use         |
| Do not use                      |                       | Do not use         |

PROGRAMME MENU





## 6. MENU OPERATION & SETTINGS

**DMX Address and Channels Mode**-In these menu,you can connect several pieces of lights with DMX cable and control them with control console.

1. Press "ENTER" and then press "UP" or "DOWN" to "DMX Address" or "Channels Mode" and press "ENTER".

1) "XXX" will be showed in "DMX Address", "XXX" means the Address 1-512. You can press "UP" or "DOWN" to select the address you desired.

2) "Channel [xx]" will be showed in "Channels Mode", "XX" means 10 kinds of DMX Channels Modes. You can press "UP" or "DOWN" to select the Channel Mode you desired.

3) DMX STATE-In this menu,you can choose the DMX signal you desired. Press "ENTER" and you can choose "BLACKOUT" or "DMX HOLD";"BLACKOUT" means cut off the DMX signal and "DMX HOLD" means connect DMX signal.

**SLAVE MODE**-In this menu, you can select one light as the MASTER light and other lights in SLAVE Mode will run following the MASTER light.

1. Press "ENTER" and then press "UP" or "DOWN" to "SLAVE Mode".

2.Press "ENTER" and "SLAVE" will be showed, then press "ENTER" to select.

**AUTO MODE**-In this menu, you can select your desire AUTO Mode and adjust the running speed.

1. Press "ENTER" and then press "UP" or "DOWN" to "AUTO MODE".

2. Press "ENTER" then "SPEED" or "AUTO MODE" is showed.Then press "ENTER" and you can see 2 items as below:

1) SPEED - It provides "01-10" for you choose.

2) AUTO MODE - It provides "AUTO 1- AUTO 31" for you choose.

**Manual Mode**-In this menu,you can adjust the value of color,CTO, strobe speed as you like.

1. Press "ENTER" and then press "UP" or "DOWN" to "MANUAL MODE".

2. Press "ENTER" and there has 7 options then press "UP" or "DOWN" to select the value you desired as below:

1) Red - You can adjust the brightness of Red in this menu.

2) Green - You can adjust the brightness of Green in this menu.

3) Blue - You can adjust the brightness of Blue in this menu.

4) Lime - You can adjust the brightness of Lime in this menu.

5) Color Macro - You can select color 1-51 in this menu.

6) CTO - You can adjust the color temperature in this menu.

7) STROBE - You can adjust the speed of strobe in this menu.

**SET UP**-In this menu, you can adjust the value of the function.

1. Press "ENTER" and then press "UP" or "DOWN" to "SET UP".

2. Press "ENTER" and there has 11 options then press "ENTER" to select the options and press "UP" or "DOWN" to select the value you desired as below:

1)Refresh Rate - It provides 1-18KHz of refresh rates for your choose.

2)Dimmer Curve - It provides 4 kinds of dimmer curves for you choose.

3)Dimmer Speed - It provides 5 kinds of dimmer speed for you choose.

4)Dimmer ALL - You can adjust the overall brightness in this menu.

5)Pixel Orientation - You can select "OFF" or "ON" set the forward and reverse direction of the light scrolling.

6)White Balance - You can adjust the brightness of Red, Green, Blue, Lime.

7)Key Lock - You can select "OFF" or "ON" to make the Key Lock turn off all the time or turns on.

8)Display - In this item,you can select "30s"or "off".If you select off,the display will be on all the time.And

if you select 30s,the screen will turn off after 30 seconds.

9)Display Orientation - In this item,if you select "Normal", the display remains unchanged. the Display screen will be reverse when you select "Inverted".

10)Max Temp - The max temperature range for use is 40-70°C.

11)Factory Reset-In this item, you can reset all the value of the system.

**INFORMATION**-In this menu, you can learn about the information of RDM, software, hardware , and the working time of the light.

1. Press "ENTER" and then press "UP" or "DOWN" to "INFORMATION".

2. Press "ENTER" and select "RDM" , "Software" , "Hardware" or "Working Time".Then press "ENTER",you can see 4 items as below:

1) Hardware - It shows the Hardware information.

2) Software - It shows the Software information.

3) RDMUID - It shows RDM information.

4) Working Time - It shows the working hours of the light.

**Test mode** - In this menu,you can test if the light work normally.

1. Press "ENTER" and then press "UP" or "DOWN" to "Test mode".

2.Press"ENTER""button,and "Color" or "Full power" will be showed. Then press ENTER,and you can see two items as below:

1) Color - Test RGB LED twice.

2) Full power - Test RGBL light full brightness for 5s.

## 7. DMX CHANNELS

| 3 CHANNELS |           |                        |
|------------|-----------|------------------------|
| Channel    | Value     | Function               |
| 1          | 000 - 255 | Master dimmer          |
| 2          | 000 - 255 | Color marco (1-51)     |
| 3          | 000 - 255 | 11 WHite (2700K-8000K) |

| 4 CHANNELS |           |          |
|------------|-----------|----------|
| Channel    | Value     | Function |
| 1          | 000 - 255 | Red      |
| 2          | 000 - 255 | Green    |
| 3          | 000 - 255 | Blue     |
| 4          | 000 - 255 | Lime     |

| 8 CHANNELS |           |            |
|------------|-----------|------------|
| Channel    | Value     | Function   |
| 1          | 000 - 255 | Red        |
| 2          | 000 - 255 | Red fine   |
| 3          | 000 - 255 | Green      |
| 4          | 000 - 255 | Green fine |
| 5          | 000 - 255 | Blue       |
| 6          | 000 - 255 | Blue fine  |
| 7          | 000 - 255 | Lime       |
| 8          | 000 - 255 | Lime fine  |

| 12 CHANNEL |           |               |
|------------|-----------|---------------|
| Channel    | Value     | Function      |
| 1          | 000 - 255 | Master dimmer |
| 2          | 000 - 255 | Fine dimmer   |
| 3          | 000 - 255 | Shutter       |
| 4          | 000 - 255 | Red           |
| 5          | 000 - 255 | Green         |
| 6          | 000 - 255 | Blue          |
| 7          | 000 - 255 | Lime          |
| 8          | 000 - 255 | Dimmer curve  |
| 9          | 000 - 255 | Dimmer speed  |
| 10         | 000 - 255 | Auto          |
| 11         | 000 - 255 | Auto speed    |
| 12         | 000 - 255 | Fade          |

| 16 CHANNELS |           |                 |
|-------------|-----------|-----------------|
| Channel     | Value     | Function        |
| 1           | 000 - 255 | LED 1-4 Red     |
| 2           | 000 - 255 | LED 1-4 Green   |
| 3           | 000 - 255 | LED 1-4 Blue    |
| 4           | 000 - 255 | LED 1-4 Lime    |
| 5           | 000 - 255 | LED 5-8 Red     |
| 6           | 000 - 255 | LED 5-8 Green   |
| 7           | 000 - 255 | LED 5-8 Blue    |
| 8           | 000 - 255 | LED 5-8 Lime    |
| 9           | 000 - 255 | LED 9-12 Red    |
| 10          | 000 - 255 | LED 9-12 Green  |
| 11          | 000 - 255 | LED 9-12 Blue   |
| 12          | 000 - 255 | LED 9-12 Lime   |
| 13          | 000 - 255 | LED 13-16 Red   |
| 14          | 000 - 255 | LED 13-16 Green |
| 15          | 000 - 255 | LED 13-16 Blue  |
| 16          | 000 - 255 | LED 13-16 Lime  |

| 17 CHANNELS |           |                     |
|-------------|-----------|---------------------|
| Channel     | Value     | Function            |
| 1           | 000 - 255 | Master Dimmer       |
| 2           | 000 - 255 | Fine dimmer         |
| 3           | 000 - 255 | Function set        |
| 4           | 000 - 255 | Shutter             |
| 5           | 000 - 255 | Red                 |
| 6           | 000 - 255 | Red fine            |
| 7           | 000 - 255 | Green               |
| 8           | 000 - 255 | Green fine          |
| 9           | 000 - 255 | Blue                |
| 10          | 000 - 255 | Blue fine           |
| 11          | 000 - 255 | Lime                |
| 12          | 000 - 255 | Lime fine           |
| 13          | 000 - 215 | Color marco 0-51    |
|             | 216 - 255 | White (2700K-8000K) |
| 14          | 000 - 255 | Dimmer speed        |
| 15          | 000 - 255 | Auto                |
| 16          | 000 - 255 | Auto speed          |
| 17          | 000 - 255 | Fade                |

| Color macro + CTO (17ch, 25ch, 73ch) |     |             |     |     |          |
|--------------------------------------|-----|-------------|-----|-----|----------|
| 1                                    | 12  | No function | 137 | 140 | Color 32 |
| 13                                   | 16  | Color 1     | 141 | 144 | Color 33 |
| 17                                   | 20  | Color 2     | 145 | 148 | Color 34 |
| 21                                   | 24  | Color 3     | 149 | 152 | Color 35 |
| 25                                   | 28  | Color 4     | 153 | 156 | Color 36 |
| 29                                   | 32  | Color 5     | 157 | 160 | Color 37 |
| 33                                   | 36  | Color 6     | 161 | 164 | Color 38 |
| 37                                   | 40  | Color 7     | 165 | 168 | Color 39 |
| 41                                   | 44  | Color 8     | 169 | 172 | Color 40 |
| 45                                   | 48  | Color 9     | 173 | 176 | Color 41 |
| 49                                   | 52  | Color 10    | 177 | 180 | Color 42 |
| 53                                   | 56  | Color 11    | 181 | 184 | Color 43 |
| 57                                   | 60  | Color 12    | 185 | 188 | Color 44 |
| 61                                   | 64  | Color 13    | 189 | 192 | Color 45 |
| 65                                   | 68  | Color 14    | 193 | 196 | Color 46 |
| 69                                   | 72  | Color 15    | 197 | 200 | Color 47 |
| 73                                   | 76  | Color 16    | 201 | 204 | Color 48 |
| 77                                   | 80  | Color 17    | 205 | 208 | Color 49 |
| 81                                   | 84  | Color 18    | 209 | 212 | Color 50 |
| 85                                   | 88  | Color 19    | 213 | 215 | Color 51 |
| 89                                   | 92  | Color 20    | 216 | 218 | 2700K    |
| 93                                   | 96  | Color 21    | 219 | 221 | 3200K    |
| 97                                   | 100 | Color 22    | 222 | 224 | 3500K    |
| 101                                  | 104 | Color 23    | 225 | 227 | 4000K    |
| 105                                  | 108 | Color 24    | 228 | 230 | 4500K    |
| 109                                  | 112 | Color 25    | 231 | 233 | 5000K    |
| 113                                  | 116 | Color 26    | 234 | 236 | 5600K    |
| 117                                  | 120 | Color 27    | 237 | 239 | 6000K    |
| 121                                  | 124 | Color 28    | 240 | 242 | 6500K    |
| 125                                  | 128 | Color 29    | 243 | 245 | 7000K    |
| 129                                  | 132 | Color 30    | 246 | 248 | 7500K    |
| 133                                  | 136 | Color 31    | 249 | 255 | 8000K    |

| 25 CHANNELS |           |                     |
|-------------|-----------|---------------------|
| Channel     | Value     | Function            |
| 1           | 000 - 255 | Master Dimmer       |
| 2           | 000 - 255 | Function set        |
| 3           | 000 - 255 | Shutter             |
| 4           | 000 - 255 | Red                 |
| 5           | 000 - 255 | Green               |
| 6           | 000 - 255 | Blue                |
| 7           | 000 - 255 | Lime                |
| 8           | 000 - 215 | Color marco 0-51    |
|             | 216 - 255 | WHite (2700K-8000K) |
| 9           | 000 - 255 | Dimmer speed        |
| 10          | 000 - 255 | LED 1 dimmer        |
| 11          | 000 - 255 | LED 2 dimmer        |
| 12          | 000 - 255 | LED 3 dimmer        |
| 13          | 000 - 255 | LED 4 dimmer        |
| 14          | 000 - 255 | LED 5 dimmer        |
| 15          | 000 - 255 | LED 6 dimmer        |
| 16          | 000 - 255 | LED 7 dimmer        |
| 17          | 000 - 255 | LED 8 dimmer        |
| 18          | 000 - 255 | LED 9 dimmer        |
| 19          | 000 - 255 | LED 10 dimmer       |
| 20          | 000 - 255 | LED 11 dimmer       |
| 21          | 000 - 255 | LED 12 dimmer       |
| 22          | 000 - 255 | LED 13 dimmer       |
| 23          | 000 - 255 | LED 14 dimmer       |
| 24          | 000 - 255 | LED 15 dimmer       |
| 25          | 000 - 255 | LED 16 dimmer       |

| 32 CHANNELS |           |                 |
|-------------|-----------|-----------------|
| Channel     | Value     | Function        |
| 1           | 000 - 255 | LED 1-2 Red     |
| 2           | 000 - 255 | LED 1-2 Green   |
| 3           | 000 - 255 | LED 1-2 Blue    |
| 4           | 000 - 255 | LED 1-2 Lime    |
| 5           | 000 - 255 | LED 3-4 Red     |
| 6           | 000 - 255 | LED 3-4 Green   |
| 7           | 000 - 255 | LED 3-4 Blue    |
| 8           | 000 - 255 | LED 3-4 Lime    |
| 9           | 000 - 255 | LED 5-6 Red     |
| 10          | 000 - 255 | LED 5-6 Green   |
| 11          | 000 - 255 | LED 5-6 Blue    |
| 12          | 000 - 255 | LED 5-6 Lime    |
| 13          | 000 - 255 | LED 7-8 Red     |
| 14          | 000 - 255 | LED 7-8 Green   |
| 15          | 000 - 255 | LED 7-8 Blue    |
| 16          | 000 - 255 | LED 7-8 Lime    |
| 17          | 000 - 255 | LED 9-10 Red    |
| 18          | 000 - 255 | LED 9-10 Green  |
| 19          | 000 - 255 | LED 9-10 Blue   |
| 20          | 000 - 255 | LED 9-10 Lime   |
| 21          | 000 - 255 | LED 11-12 Red   |
| 22          | 000 - 255 | LED 11-12 Green |
| 23          | 000 - 255 | LED 11-12 Blue  |
| 24          | 000 - 255 | LED 11-12 Lime  |
| 25          | 000 - 255 | LED 13-14 Red   |
| 26          | 000 - 255 | LED 13-14 Green |
| 27          | 000 - 255 | LED 13-14 Blue  |
| 28          | 000 - 255 | LED 13-14 Lime  |
| 29          | 000 - 255 | LED 15-16 Red   |
| 30          | 000 - 255 | LED 15-16 Green |
| 31          | 000 - 255 | LED 15-16 Blue  |
| 32          | 000 - 255 | LED 15-16 Lime  |

| 64 CHANNELS |           |             |
|-------------|-----------|-------------|
| Channel     | Value     | Function    |
| 1           | 000 - 255 | LED 1 Red   |
| 2           | 000 - 255 | LED 1 Green |
| 3           | 000 - 255 | LED 1 Blue  |
| 4           | 000 - 255 | LED 1 Lime  |
| 5           | 000 - 255 | LED 2 Red   |
| 6           | 000 - 255 | LED 2 Green |
| 7           | 000 - 255 | LED 2 Blue  |
| 8           | 000 - 255 | LED 2 Lime  |
| 9           | 000 - 255 | LED 3 Red   |
| 10          | 000 - 255 | LED 3 Green |
| 11          | 000 - 255 | LED 3 Blue  |
| 12          | 000 - 255 | LED 3 Lime  |
| 13          | 000 - 255 | LED 4 Red   |
| 14          | 000 - 255 | LED 4 Green |
| 15          | 000 - 255 | LED 4 Blue  |
| 16          | 000 - 255 | LED 4 Lime  |
| 17          | 000 - 255 | LED 5 Red   |
| 18          | 000 - 255 | LED 5 Green |
| 19          | 000 - 255 | LED 5 Blue  |
| 20          | 000 - 255 | LED 5 Lime  |
| 21          | 000 - 255 | LED 6 Red   |
| 22          | 000 - 255 | LED 6 Green |
| 23          | 000 - 255 | LED 6 Blue  |
| 24          | 000 - 255 | LED 6 Lime  |
| 25          | 000 - 255 | LED 7 Red   |
| 26          | 000 - 255 | LED 7 Green |
| 27          | 000 - 255 | LED 7 Blue  |
| 28          | 000 - 255 | LED 7 Lime  |
| 29          | 000 - 255 | LED 8 Red   |
| 30          | 000 - 255 | LED 8 Green |
| 31          | 000 - 255 | LED 8 Blue  |
| 32          | 000 - 255 | LED 8 Lime  |
| 33          | 000 - 255 | LED 9 Red   |
| 34          | 000 - 255 | LED 9 Green |

|    |           |              |
|----|-----------|--------------|
| 35 | 000 - 255 | LED 9 Blue   |
| 36 | 000 - 255 | LED 9 Lime   |
| 37 | 000 - 255 | LED 10 Red   |
| 38 | 000 - 255 | LED 10 Green |
| 39 | 000 - 255 | LED 10 Blue  |
| 40 | 000 - 255 | LED 10 Lime  |
| 41 | 000 - 255 | LED 11 Red   |
| 42 | 000 - 255 | LED 11 Green |
| 43 | 000 - 255 | LED 11 Blue  |
| 44 | 000 - 255 | LED 11 Lime  |
| 45 | 000 - 255 | LED 12 Red   |
| 46 | 000 - 255 | LED 12 Green |
| 47 | 000 - 255 | LED 12 Blue  |
| 48 | 000 - 255 | LED 12 Lime  |
| 49 | 000 - 255 | LED 13 Red   |
| 50 | 000 - 255 | LED 13 Green |
| 51 | 000 - 255 | LED 13 Blue  |
| 52 | 000 - 255 | LED 13 Lime  |
| 53 | 000 - 255 | LED 14 Red   |
| 54 | 000 - 255 | LED 14 Green |
| 55 | 000 - 255 | LED 14 Blue  |
| 56 | 000 - 255 | LED 14 Lime  |
| 57 | 000 - 255 | LED 15 Red   |
| 58 | 000 - 255 | LED 15 Green |
| 59 | 000 - 255 | LED 15 Blue  |
| 60 | 000 - 255 | LED 15 Lime  |
| 61 | 000 - 255 | LED 16 Red   |
| 62 | 000 - 255 | LED 16 Green |
| 63 | 000 - 255 | LED 16 Blue  |
| 64 | 000 - 255 | LED 16 Lime  |

| 73 CHANNELS |           |               |
|-------------|-----------|---------------|
| Channel     | Value     | Function      |
| 1           | 000 - 255 | Master Dimmer |
| 2           | 000 - 255 | Fine dimmer   |
| 3           | 000 - 255 | Function set  |
| 4           | 000 - 255 | Shutter       |
| 5           | 000 - 255 | LED 1 Red     |
| 6           | 000 - 255 | LED 1 Green   |
| 7           | 000 - 255 | LED 1 Blue    |
| 8           | 000 - 255 | LED 1 Lime    |
| 9           | 000 - 255 | LED 2 Red     |
| 10          | 000 - 255 | LED 2 Green   |
| 11          | 000 - 255 | LED 2 Blue    |
| 12          | 000 - 255 | LED 2 Lime    |
| 13          | 000 - 255 | LED 3 Red     |
| 14          | 000 - 255 | LED 3 Green   |
| 15          | 000 - 255 | LED 3 Blue    |
| 16          | 000 - 255 | LED 3 Lime    |
| 17          | 000 - 255 | LED 4 Red     |
| 18          | 000 - 255 | LED 4 Green   |
| 19          | 000 - 255 | LED 4 Blue    |
| 20          | 000 - 255 | LED 4 Lime    |
| 21          | 000 - 255 | LED 5 Red     |
| 22          | 000 - 255 | LED 5 Green   |
| 23          | 000 - 255 | LED 5 Blue    |
| 24          | 000 - 255 | LED 5 Lime    |
| 25          | 000 - 255 | LED 6 Red     |
| 26          | 000 - 255 | LED 6 Green   |
| 27          | 000 - 255 | LED 6 Blue    |
| 28          | 000 - 255 | LED 6 Lime    |
| 29          | 000 - 255 | LED 7 Red     |
| 30          | 000 - 255 | LED 7 Green   |
| 31          | 000 - 255 | LED 7 Blue    |
| 32          | 000 - 255 | LED 7 Lime    |
| 33          | 000 - 255 | LED 8 Red     |
| 34          | 000 - 255 | LED 8 Green   |

|    |           |              |
|----|-----------|--------------|
| 35 | 000 - 255 | LED 8 Blue   |
| 36 | 000 - 255 | LED 8 Lime   |
| 37 | 000 - 255 | LED 9 Red    |
| 38 | 000 - 255 | LED 9 Green  |
| 39 | 000 - 255 | LED 9 Blue   |
| 40 | 000 - 255 | LED 9 Lime   |
| 41 | 000 - 255 | LED 10 Red   |
| 42 | 000 - 255 | LED 10 Green |
| 43 | 000 - 255 | LED 10 Blue  |
| 44 | 000 - 255 | LED 10 Lime  |
| 45 | 000 - 255 | LED 11 Red   |
| 46 | 000 - 255 | LED 11 Green |
| 47 | 000 - 255 | LED 11 Blue  |
| 48 | 000 - 255 | LED 11 Lime  |
| 49 | 000 - 255 | LED 12 Red   |
| 50 | 000 - 255 | LED 12 Green |
| 51 | 000 - 255 | LED 12 Blue  |
| 52 | 000 - 255 | LED 12 Lime  |
| 53 | 000 - 255 | LED 13 Red   |
| 54 | 000 - 255 | LED 13 Green |
| 55 | 000 - 255 | LED 13 Blue  |
| 56 | 000 - 255 | LED 13 Lime  |
| 57 | 000 - 255 | LED 14 Red   |
| 58 | 000 - 255 | LED 14 Green |
| 59 | 000 - 255 | LED 14 Blue  |
| 60 | 000 - 255 | LED 14 Lime  |
| 61 | 000 - 255 | LED 15 Red   |
| 62 | 000 - 255 | LED 15 Green |
| 63 | 000 - 255 | LED 15 Blue  |
| 64 | 000 - 255 | LED 15 Lime  |
| 65 | 000 - 255 | LED 16 Red   |
| 66 | 000 - 255 | LED 16 Green |
| 67 | 000 - 255 | LED 16 Blue  |
| 68 | 000 - 255 | LED 16 Lime  |
| 69 | 000 - 255 | Dimmer speed |

|    |           |                     |
|----|-----------|---------------------|
| 70 | 000 - 215 | Color marco         |
|    | 216 - 255 | WHite (2700K-8000K) |
| 71 | 000 - 255 | Auto                |
| 72 | 000 - 255 | Auto speed          |
| 73 | 000 - 255 | Fade                |

## DMX CONTROL SHEET

| Function set |                                                 |
|--------------|-------------------------------------------------|
| 000 - 044    | No function                                     |
| 045 - 049    | Pixel on                                        |
| 050 - 054    | Pixel off                                       |
| 055 - 059    | Dimmer curve Linear                             |
| 060 - 064    | Dimmer curve Square Law                         |
| 065 - 069    | Dimmer curve inverse Square Law                 |
| 070 - 074    | Dimmer curve S-Curve                            |
| 075 - 089    | No function                                     |
| 090 - 094    | Calibrated color output mode - COLOR CALIB = On |
| 095 - 099    | Raw color ouput mode - COLOR CALIB = OFF        |
| 100 - 114    | No function                                     |
| 115 - 119    | 1KHzrefresh rate                                |
| 120 - 124    | 2KHzrefresh rate                                |
| 125 - 129    | 3KHzrefresh rate                                |
| 130 - 134    | 4KHzrefresh rate                                |
| 135 - 139    | 5KHzrefresh rate                                |
| 140 - 144    | 6KHzrefresh rate                                |
| 145 - 149    | 7KHzrefresh rate                                |

|           |                   |
|-----------|-------------------|
| 150 - 154 | 8KHzrefresh rate  |
| 155 - 159 | 9KHzrefresh rate  |
| 160 - 164 | 10KHzrefresh rate |
| 165 - 169 | 11KHzrefresh rate |
| 170 - 174 | 12KHzrefresh rate |
| 175 - 179 | 13KHzrefresh rate |
| 180 - 184 | 14KHzrefresh rate |
| 185 - 189 | 15KHzrefresh rate |
| 190 - 194 | 16KHzrefresh rate |
| 195 - 199 | 17KHzrefresh rate |
| 200 - 204 | 18KHzrefresh rate |
| 205 - 249 | No function       |
| 250 - 255 | lluminate display |

| CTO |     |       |
|-----|-----|-------|
| 8   | 29  | 2700K |
| 30  | 51  | 3200K |
| 52  | 73  | 3500K |
| 74  | 95  | 4000K |
| 96  | 117 | 4500K |
| 118 | 139 | 5000K |
| 140 | 161 | 5600K |
| 162 | 183 | 6000K |
| 184 | 205 | 6500K |
| 206 | 227 | 7000K |
| 228 | 249 | 7500K |
| 250 | 255 | 8000K |

| Dimmer speed |     |                |
|--------------|-----|----------------|
| 0            | 49  | No function    |
| 50           | 99  | Dimmer speed 1 |
| 100          | 149 | Dimmer speed 2 |
| 150          | 199 | Dimmer speed 3 |
| 200          | 255 | Dimmer speed 4 |

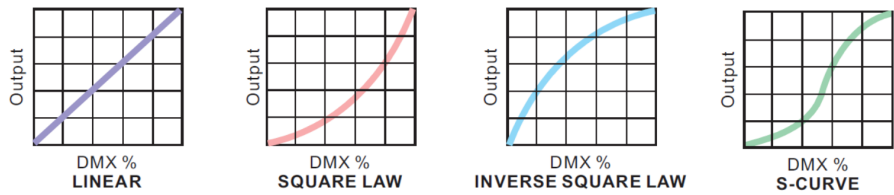
| DIMMER CURVE   |         |
|----------------|---------|
| LINEAR DIMMER  | 50-99   |
| SQUARE LAW     | 100-149 |
| INVERSE SQUARE | 150-199 |
| S-CURVE        | 200-255 |

| Shutter sheet |                                              |
|---------------|----------------------------------------------|
| 000 - 019     | Shutter close                                |
| 020 - 024     | Shutter open                                 |
| 025 - 064     | Strobe 1 (fast to slow)                      |
| 065 - 069     | Shutter open                                 |
| 070 - 084     | Strobe 2:opening pulse (fast to slow)        |
| 085 - 089     | Shutter open                                 |
| 090 - 104     | Strobe 3:closing pulse (fast to slow)        |
| 105 - 109     | Shutter open                                 |
| 110 - 124     | Strobe 4:random strobe (fast to slow)        |
| 125 - 129     | Shutter open                                 |
| 130 - 144     | Strobe 5:random opening pulse (fast to slow) |
| 145 - 149     | Shutter open                                 |
| 150 - 164     | Strobe 6:random closing pulse (fast to slow) |
| 165 - 169     | Shutter open                                 |
| 170 - 184     | Strobe 7:burst pulse (fast to slow)          |
| 185 - 189     | Shutter open                                 |
| 190 - 204     | Strobe 8:random burst pulse (fast to slow)   |
| 205 - 209     | Shutter open                                 |
| 210 - 224     | Strobe 9: sine wave(fast to slow)            |
| 225 - 229     | Shutter open                                 |
| 230 - 244     | Strobe 10: burst(fast to slow)               |
| 245 - 255     | Shutter open                                 |

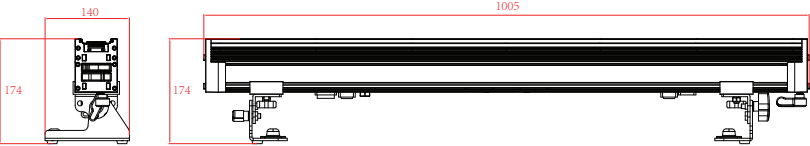
| Color marco 1-51 |     |          |     |     |          |
|------------------|-----|----------|-----|-----|----------|
| 5                | 9   | COLOR 1  | 130 | 134 | COLOR 26 |
| 10               | 14  | COLOR 2  | 135 | 139 | COLOR 27 |
| 15               | 19  | COLOR 3  | 140 | 144 | COLOR 28 |
| 20               | 24  | COLOR 4  | 145 | 149 | COLOR 29 |
| 25               | 29  | COLOR 5  | 150 | 154 | COLOR 30 |
| 30               | 34  | COLOR 6  | 155 | 159 | COLOR 31 |
| 35               | 39  | COLOR 7  | 160 | 164 | COLOR 32 |
| 40               | 44  | COLOR 8  | 165 | 169 | COLOR 33 |
| 45               | 49  | COLOR 9  | 170 | 174 | COLOR 34 |
| 50               | 54  | COLOR 10 | 175 | 179 | COLOR 35 |
| 55               | 59  | COLOR 11 | 180 | 184 | COLOR 36 |
| 60               | 64  | COLOR 12 | 185 | 189 | COLOR 37 |
| 65               | 69  | COLOR 13 | 190 | 194 | COLOR 38 |
| 70               | 74  | COLOR 14 | 195 | 199 | COLOR 39 |
| 75               | 79  | COLOR 15 | 200 | 204 | COLOR 40 |
| 80               | 84  | COLOR 16 | 205 | 209 | COLOR 41 |
| 85               | 89  | COLOR 17 | 210 | 214 | COLOR 42 |
| 90               | 94  | COLOR 18 | 215 | 219 | COLOR 43 |
| 95               | 99  | COLOR 19 | 220 | 224 | COLOR 44 |
| 100              | 104 | COLOR 20 | 225 | 229 | COLOR 45 |
| 105              | 109 | COLOR 21 | 230 | 234 | COLOR 46 |
| 110              | 114 | COLOR 22 | 235 | 239 | COLOR 47 |
| 115              | 119 | COLOR 23 | 240 | 244 | COLOR 48 |
| 120              | 124 | COLOR 24 | 245 | 249 | COLOR 49 |
| 125              | 129 | COLOR 25 | 250 | 254 | COLOR 50 |
|                  |     |          | 255 |     | COLOR 51 |

| Auto 1-31 |     |         |     |     |         |
|-----------|-----|---------|-----|-----|---------|
| 6         | 12  | Auto 1  | 125 | 132 | Auto 16 |
| 13        | 20  | Auto 2  | 133 | 140 | Auto 17 |
| 21        | 28  | Auto 3  | 141 | 148 | Auto 18 |
| 29        | 36  | Auto 4  | 149 | 156 | Auto 19 |
| 37        | 44  | Auto 5  | 157 | 164 | Auto 20 |
| 45        | 52  | Auto 6  | 165 | 172 | Auto 21 |
| 53        | 60  | Auto 7  | 173 | 180 | Auto 22 |
| 61        | 68  | Auto 8  | 181 | 188 | Auto 23 |
| 69        | 76  | Auto 9  | 189 | 196 | Auto 24 |
| 77        | 84  | Auto 10 | 197 | 204 | Auto 25 |
| 85        | 92  | Auto 11 | 205 | 212 | Auto 26 |
| 93        | 100 | Auto 12 | 213 | 220 | Auto 27 |
| 101       | 108 | Auto 13 | 221 | 228 | Auto 28 |
| 109       | 116 | Auto 14 | 229 | 236 | Auto 29 |
| 117       | 124 | Auto 15 | 237 | 244 | Auto 30 |
|           |     |         | 246 | 255 | Auto 31 |

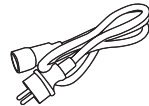
# DIMMER CURVE



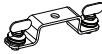
# MECHANICAL SPECIFICATION



# ACCESSORY

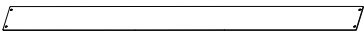


Power cable



Fast lock

# OPTIONAL ACCESSORIES



Frost filter

## RDM

RDM compliance:ANSI/ESTA E.120

| Parameter ID                | Command<br>'Discovery' | Command<br>'Set' | Command<br>'Get' |
|-----------------------------|------------------------|------------------|------------------|
| DISC_UNIQUE_BRANCH          | √                      |                  |                  |
| DISC_MUTE                   | √                      |                  |                  |
| DISC_UN_MUTE                | √                      |                  |                  |
| DEVICE_INFO                 |                        |                  | √                |
| SUPPORTED_PARAMETERS        |                        |                  | √                |
| SOFTWARE_VERSION_LABEL      |                        |                  | √                |
| DMX_START_ADDRESS           |                        | √                | √                |
| IDENTIFY_DEVICE             |                        | √                | √                |
| DEVICE_MODEL_DESCRIPTION    |                        |                  | √                |
| PARAMETER_DESCRIPTION       |                        |                  | √                |
| MANUFACTURER_LABEL          |                        |                  | √                |
| DEVICE_LABEL                |                        | √                | √                |
| FACTORY_DEFAULTS            |                        | √                | √                |
| BOOT_SOFTWARE_VERSION_ID    |                        |                  | √                |
| BOOT_SOFTWARE_VERSION_LABEL |                        |                  | √                |
| DMX_PERSONALITY             |                        | √                | √                |
| DMX_PERSONALITY_DESCRIPTION |                        |                  | √                |
| SLOT_INFO                   |                        |                  | √                |
| SLOT_DESCRIPTION            |                        |                  | √                |
| SENSOR_DEFINITION           |                        |                  | √                |
| SENSOR_VALUE                |                        |                  | √                |
| DEVICE_HOURS                |                        |                  | √                |
| LAMP_HOURS                  |                        |                  | √                |
| RESET_DEVICE                |                        | √                |                  |
| DIMMER CURVE                |                        | √                | √                |
| DMX STATE                   |                        | √                | √                |
| DIMMER SPEED                |                        | √                | √                |









# CYCLOPS

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