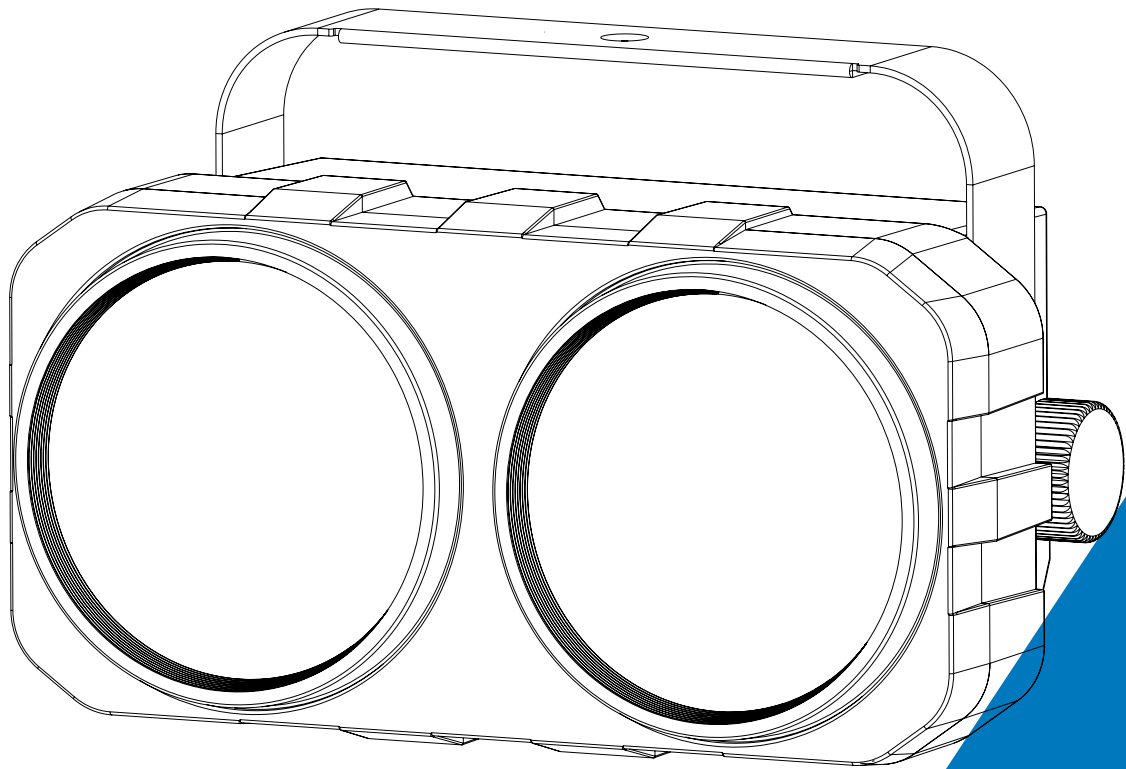


# Acme®

## *EYEFLASH 2*



**User Manual**

Please read the instruction carefully before use

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- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together twist other cables.
- The minimum distance between light output and the illuminated surface must be more than 0.5 meters.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the unit as there are no user serviceable parts inside.
- Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect the mains power if the fixture is has not been used for a long time.
- DO use the original packing materials before transporting it again.
- DO NOT look directly at the light while the bulb is on.
- DO NOT start on the unit without bulb enclosure or when housing is damaged.

**Installation:**

The fixture should be mounted via its Omega Quick Release Clamp bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating and make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the fixtures weight. Always use a safety cable that can hold 12 times of the weight of the fixture when installing.

The equipment must be installed by professionals. It must be installed in a place where is out of the reach of people and no one can pass by or under it.

## **2. Technical Specifications**

### **Power Voltage:**

AC 180~240V, 50/60Hz

### **Power Consumption:**

200W

### **Light Source:**

2X100W WW COB

### **Beam Angle:**

28°

Field Angle :

45°

### **Dimmer/Shutter:**

Smooth dimming from 0-100%; outstanding strobe effect with variable speed

### **Control:**

DMX Channel: 1/2/4/6 Channels

Protocols: DMX512, RDM

Firmware Upgrade via DMX link

### **Construction:**

Display: OLED

Data In/Out: 3-pin (5-pin XLR is optional)

Power In/Out: Power Connector in/out

Protection Rating: IP20

### **Features:**

2 x led zones can be controlled individually

Unique tungsten effect

Outstanding strobe effect with variable speed

Smooth dimming from 0-100%

Multiple units can be split-jointed horizontally with connecting board

## 1. Safety Instructions



Please read the instruction carefully which includes important information about the installation, usage and maintenance.

### WARNING

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

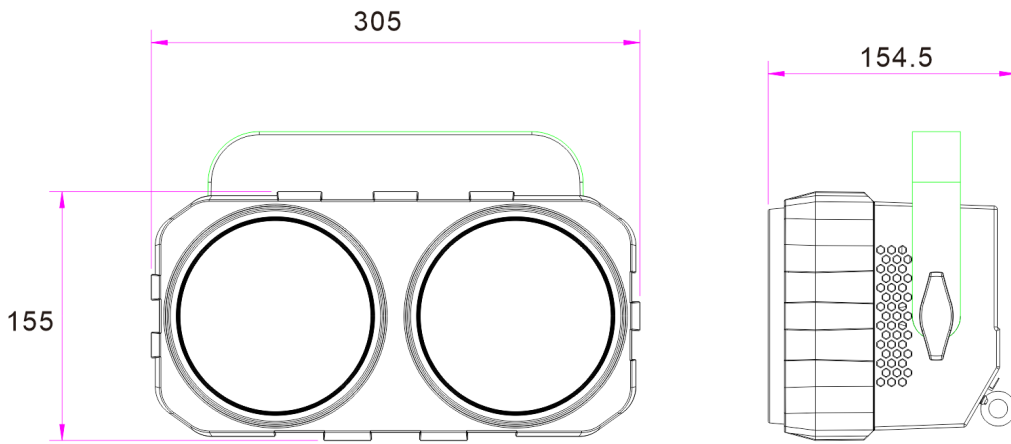
### Important:

**Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.**

- Unpack and check carefully that there is no transportation damage before using the unit.
- This product is for indoor use only.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots are blocked, otherwise the unit will be overheated.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0°C. Maximum ambient temperature TA: 40°C.
- DO NOT connect the device to any dimmer pack.
- Make sure there are no flammable materials close to the unit while operating to avoid fire hazard.
- Examine the power wires carefully; replace them immediately if there is any damage.
- Unit's surface temperature may reach up to 50°C. DO NOT touch the housing bare-handed during its operation.
- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happens, cut off the mains power immediately.
- DO NOT operate in dirty or dusty environment, do clean fixtures regularly.

**Dimension/Weight:**

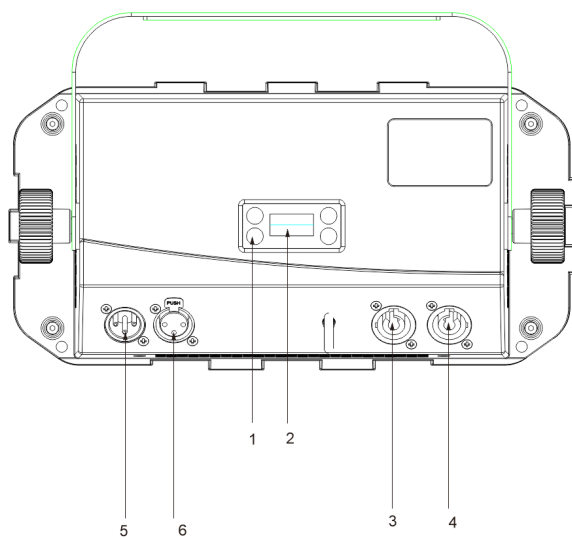
12"x6.1"x5.7", 5.5lbs



**Photometrics Diagram:**

**3. Control Panel**

POWERCON Version:



**1. DISPLAY:** To show the various menus and the selected function

**2. Button:**

<b>MENU</b>	To enter into move backward or leave the menu
<b>▲ UP</b>	To go backward to move up in the menu
<b>▼ DOWN</b>	To go forward to move down in the menu
<b>ENTER</b>	To perform the desired functions

**3. POWER IN(POWERCON Version):**

To connect to supply power

**4. POWER OUT(POWERCON Version):**

To connect to the next fixture

**5. DMX IN:**

DMX512 link, use 3-pin XLR cable to link the unit and DMX controller (5-pin XLR is optional)

**6. DMX OUT:**

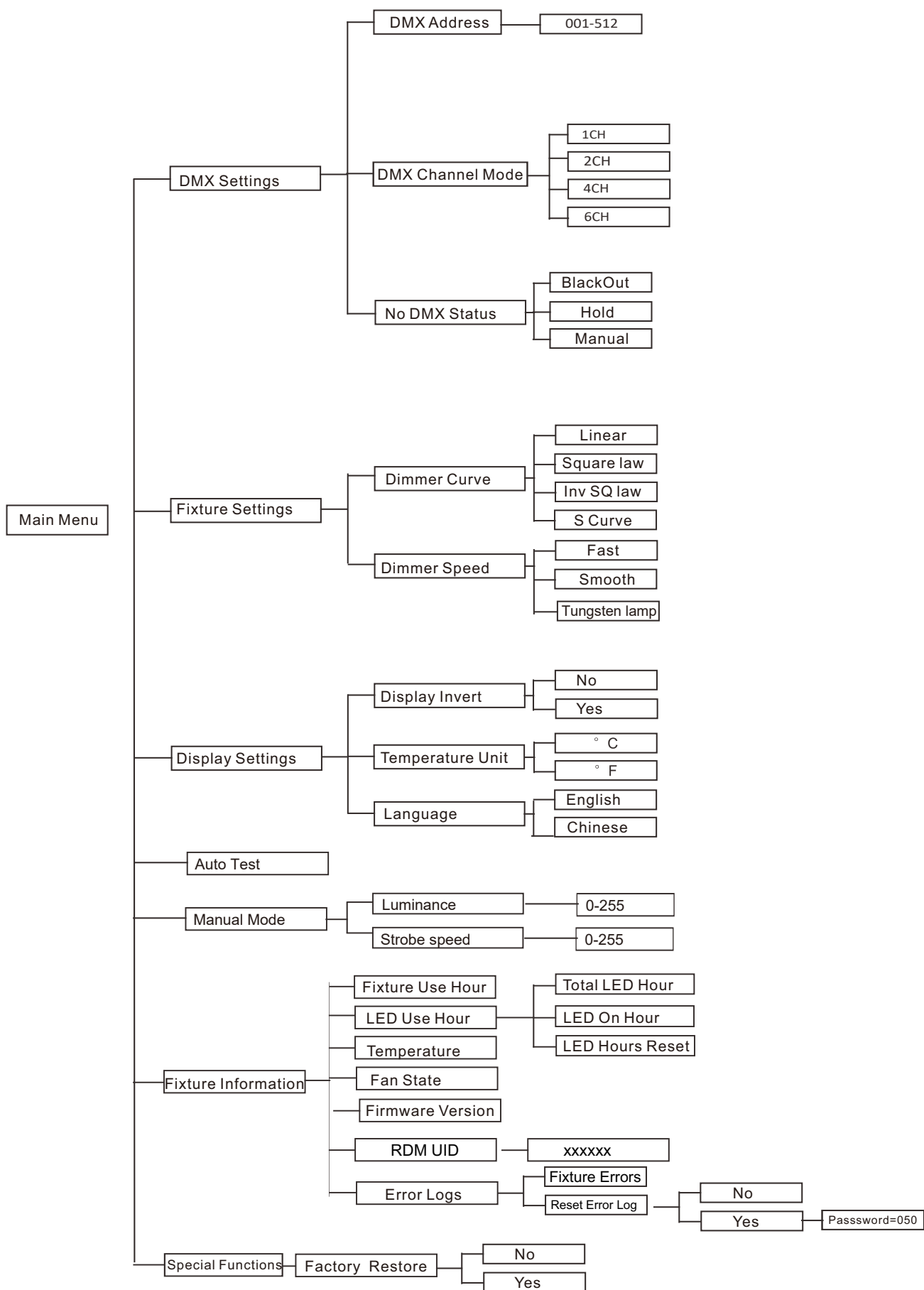
DMX 512 operation, use 3-pin XLR cable to link the next units (5-pin XLR is optional)

## **4. How To Set The Unit**

### **4.1 Main Function**

Turn on the unit, press the MENU button into menu mode, and press the UP/DOWN button until the required function is shown on the monitor. Select the function by the ENTER button. Use the UP/DOWN button to choose the submenu, press the ENTER button to store and automatically return to the last menu. Press the MENU button or let the unit idle One Minute to exit menu mode.

The main functions are shown below:



## ***DMX Settings***

To select **DMX Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address, DMX Channel Mode, No DMX Status** or **View DMX Value**.

### **DMX Address**

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **001** to **512**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle One Minute to exit menu mode.

### **DMX Channel Mode**

To select **DMX Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **1CH/2CH/4CH/6CH**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

### **No DMX Status**

To select **No DMX Status**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **BlackOut**(fixture blacks out if DMX signal stops) , **Hold**(fixture continues to obey the last command it received Via DMX if DMX signal stops)or **Manual**((When DMX signal is disconnected, the device runs in manual mode), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

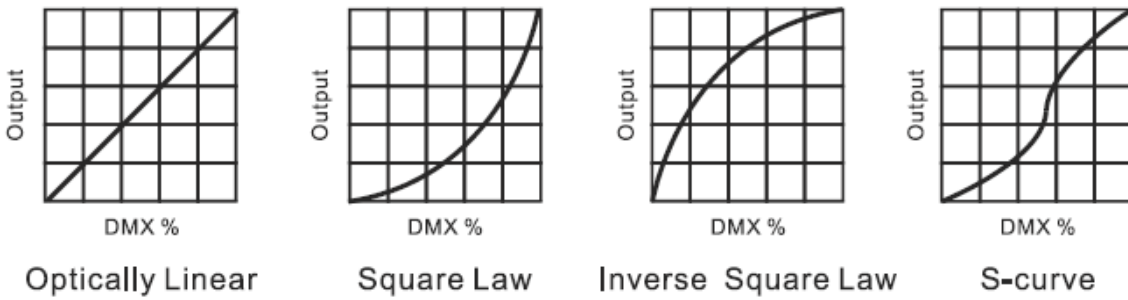
## ***Fixture Settings***

To select **Fixture Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Dimmer Curve,Dimmes Speed** or**White Balance**.

### **Dimming curve**

To select **Dimming Curve** and press the **ENTER** button to confirm. Use the **UP/DOWN** button to select linear, square rate, inverse square rate or S curve. After selecting the desired mode, press the **ENTER** button to set and save. Press the **MENU** button to return, or wait one minute to return to the main menu.

## Dimmer Modes



**Linearity:** As the DMX value increases, the increase in light intensity tends to be linear

**Square Rate:** when the light intensity is controlled at a low value, the lines are finer, and at high

values, the lines are thicker; inverse square rate: when the light intensity is controlled at a low value, the lines are thicker, and when the light intensity is controlled at a high value, the lines are thinner;

S-Curve: The line is finer when the light intensity is controlled at low and high values, and the line is thicker at the middle value.

### **Dimming Speed**

To select **Dimming speed** and press the ENTER button to confirm. The current mode will be displayed on the display. Use the **UP/DOWN** buttons to select: fast or smooth, press the ENTER button to save. Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

### **Display Settings**

Enter the **MENU** mode, To select **Display Settings**, press the **ENTER** button to confirm, and use **UP/DOWN** to select: **Display Inversion**, **Temperature unit**, **Display Warning** or **Device Language**.

## Display Inversion

To select **Display Inversion**, press the **ENTER** button to confirm, the current mode will be displayed on the display, use the **UP/DOWN** button to select: **No** or **Yes**, press the **ENTER** button to save. Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

## Display Invert

To select **Display Invert**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No**(normal display) or **Yes**(invert display), press the **ENTER** button to store. Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

## Temperature Unit

To select **Temperature Unit**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select  $^{\circ}\text{C}$  or  $^{\circ}\text{F}$ , press the **ENTER** button to store. Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

## Language

To select **Language**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **English** or **Chinese**, press the **ENTER** button to store. Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

## Auto Test

To select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, P/T speed, color, gobo, prism, prism2, rprism, shutter, dimmer, focus, frost and spe. func. Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

## **Manual Test**

To select **Manual Test**, select, manual mode, press **ENTER** button to confirm, through **UP/DOWN** to choose: **Luminance** or **Strobe speed**, press **ENTER** button to confirm, through **UP/DOWN** button to adjust the value 0-255, press **ENTER** button to save. Press the **MENU** button to go back to the previous **MENU** or wait 30 seconds to automatically exit **MENU** mode.

(All channels value will become 0 after exiting Manual Test menu)

## ***Fixture Information***

To select **Fixture Information**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Fixture Use Hour**, **LED Use Hour**, **Temperature**, **Fan State**, **Firmware Version** or **Error Logs**.

## **Fixture Use Hour**

To select **Fixture Use Hour**, press the **ENTER** button to confirm, fixture use hour will show on the display, press the **MENU** button to exit.

## **LED Use Hour**

To select **LED Use Hour**, press the **ENTER** button to confirm and lamp use time in **Total LED Hours**, **LED On Hour** or **LED Hour Reset**. can be viewed, press the **ENTER** button to confirm. Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

To select **Total LED Hours**, press the **ENTER** button to confirm, the total number of LED hours will be displayed on the screen, press the **MENU** button to exit. Select the **LED On Time**, press the **ENTER** button to confirm, the LED on time will be displayed on the screen, press the **MENU** button to exit. Select **LED Hour Reset**, press **ENTER** button to confirm, use **UP/DOWN** button to set password **050** to reset LED time, press **ENTER** button to save, Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

## **Temperature**

To select **Temperature**, press the **ENTER** button to confirm, fixture temperature will show on the Luminance

## **Fan State**

To select **Fan State**

, press the **ENTER** button to confirm, firmware version will show on the display, press the **MENU** button back to exit.

## **Firmware Version**

To select **Firmware Version**, press the **ENTER** button to confirm, firmware version will show on the display, press the **MENU** button back to exit.

## **Error Logs**

To select **Error Logs**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Fixture Errors** or **Reset Error Log**, press the **ENTER** button to store. To select **Reset Error Log**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No** or **Yes**, press the **ENTER** button to store. To select **Yes**, press the **ENTER** button to confirm, use the **UP/DOWN** button to set the password **050**, Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

## ***Special Function***

To select ***Special Function***, press the **ENTER** button to confirm and lamp use time in **Factory Settings** can be viewed, press the **ENTER** button to confirm. Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

## **Factory Settings**

To select **Factory Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No**(normal) or **Yes**(the fixture will reset to factory settings), Press the **MENU** button to return to the previous menu or wait one minute to automatically exit the menu mode.

## RDM FUNCTIONS

Select the MANUFACTURER menu to display the manufacturer of the fixture.

Select the SOFTWARE VERSION menu and the program version number of the fixture will be displayed.

Select the DMX START ADDRESS menu to change the DMX 512 address (001-512).

Select the DEVICE MODEL DESCRIPTION menu to display the model of the fixture.

Select the DEVICE LABEL menu to change the model of the fixture.

Select the DMX PERSONALITY menu to set the channel mode of the fixture (1/2/4/6 channel).

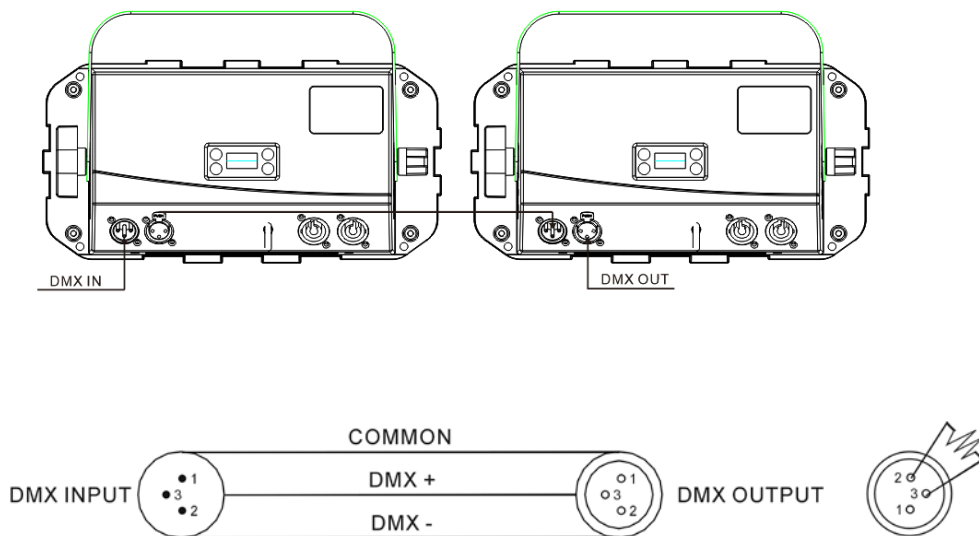
Select the DMX PERSONALITY DESCRIPTION menu to display the current channel mode of the fixture.

Select the DEVICE HOURS menu to display the running time of the fixture.

Select the RESET DEVICE menu, the WARM RESET/COLD RESET option will be displayed. When WARM RESET is selected, the fixture will start a warm reset, and exit when COLD RESET is selected.

## 5. Control By Universal DMX Controller

### 5.1 DMX512 Connection



1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a “daisy chain” by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a “Y” cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily

distort the signal and shut down the system.

3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins XLR.

3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

## 5.2 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the MENU button to enter menu mode, select DMX Settings, press the ENTER button to confirm, use the UP/DOWN button to select DMX Address, press the ENTER button to confirm, the present address will blink on the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
1 channels	1	2	3	4
2 channels	1	3	5	7
4channels	1	5	9	13
6 channels	1	7	13	19

## 5.3 DMX512 Configuration

Please refer to below configurations to control the fixtures



### Attentions:

1. The unit will maintain the last condition until reset if you cut-off the DMX signal.
2. For the channel Function, keep the value for about Five seconds, then the corresponding function will take into effect.




### 1Channel Mode

Channel	Value	Function
1	0-255	 Dimmer 0 → 100%

### 2Channel Mode

Channel	Value	Function
1	0-255	 Dimmer 0 → 100%
2	0-255	 Dimmer 0 → 100%

### 4Channel Mode

Channel	Value	Function	
1	0-255	 Dimmer 0 → 100%	
2	0-255	 Dimmer 0 → 100%	
3	0-255	 Dimmer 0 → 100%	
4	0-5	Open	Flash
	6-123	Flash Rate, slow to fast	
	124-127	Open	
	128-185	2 LEDs random strobe at the same time	
	186-190	Open	
	191-249	2 LEDs random strobe respectively	
	250-255	Open	

## 6Channel Mode

Channel	Value	Function	
1	0-255	◐◑ Dimming coarse 0 → 100%	
2	0-255	◑◐ Dimming fine	
3	0-255	◑◐ Dimming coarse 0 → 100%	
4	0-255	◐◑ Dimming fine	
5	0-255	◑◑ Dimmer 0 → 100%	
6	0-5	Open	Flash
	6-123	Flash Rate, slow to fast	
	124-127	Open	
	128-185	2 LEDs random strobe at the same time	
	186-190	Open	
	191-249	2 LEDs random strobe respectively	
	250-255	Open	

## 6. Error Information

### Fan Error

Check if the fan is not running.

Check if the fan leads are installed in place or disconnected.

Check if the fan is damaged.

Check if there are other interference items in the fan operating range. Check if the fan circuit on the motherboard breaks down.

Check if the component is damaged.

Check if the fan is out of order.

## **2. Temperature Error**

Check if the ambient temperature exceeds 45°C.

Check if the fan speed is too low

Check the temperature detector board is normal

Check the temperature detector board components for damage

Check that the temperature detector plate leads are in place or disconnected

## **7. Troubleshooting**

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

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

1. Check the connect power.
2. Measure the mains voltage on the main connector.
3. Check the power on LED to see if it can be light up or not.

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

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

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

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

## **8. Fixture Cleaning**

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth and use normal glass to clean liquid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days.

**Quality, Innovation, Performance**