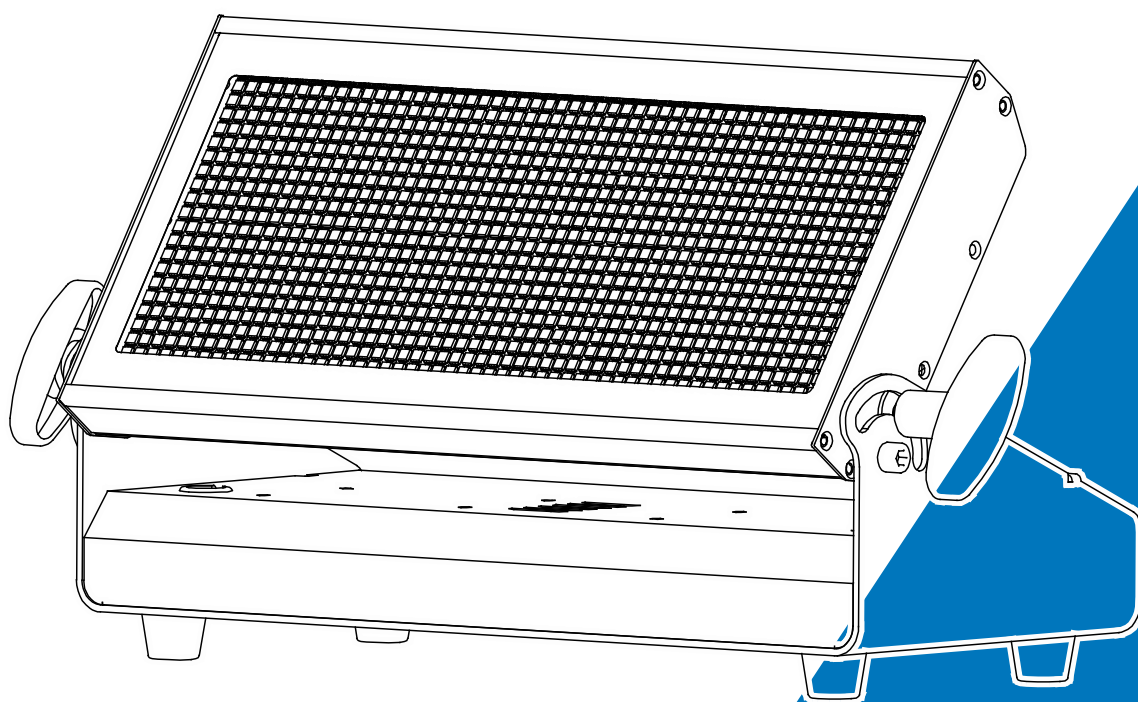




***STAGE PANEL 1080***

LP-1080



**User Manual**

Please read the instruction carefully before use

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## 1. Safety Instruction



### WARNING

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

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

- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is  $T_a$ : 40°C. DO NOT operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85°C. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- DO NOT touch any wire during operation as high voltage might be causing electric shock.

## **Warning:**

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- DO NOT open the unit within five minutes after switching off.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

If using a 230V 50Hz power supply, DO NOT connect in series more than 3 units; use another main supply for the next 3 fixtures.

If using a 120V 60Hz power supply, DO NOT connect in series more than 2 units; use another main supply for the next 2 fixtures.

## **Caution:**

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

## **Installation:**

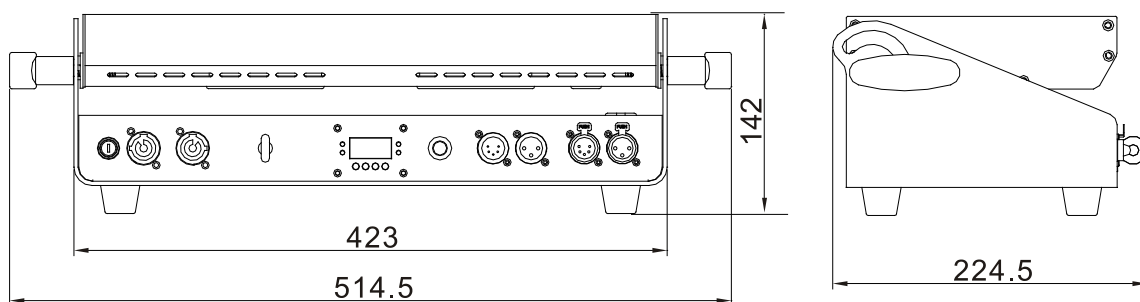
The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight.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

The equipment must be fixed by the professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

## **2. Technical Specification**

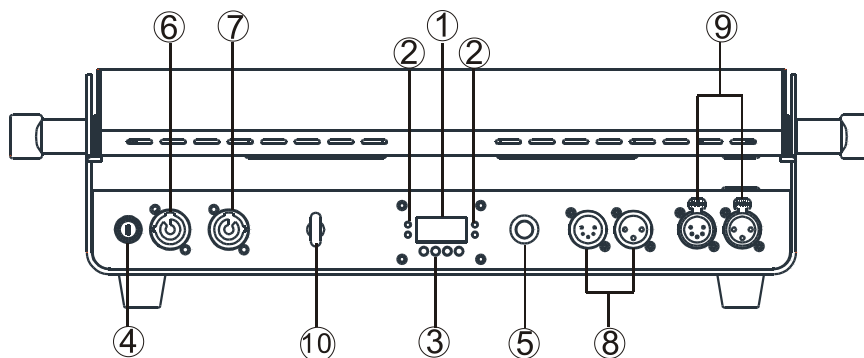
- DMX Control: 1/3/4/4/4/6 Channels Mode
- Smooth 0~100% dimming and variable strobe speeds
- Three Operation Modes: DMX, Master/Slave, Sound Active
- The DMX Address code can be set by the DMX tester CA-T
- Variable strobe effects
- Beam Angle: 135°

- **Voltage :** AC 100-240V, 50/60Hz
- **Power Consumption :** 247W
- **LED:** 1080pcs SMD RGB(Tri-color) LEDs
- **Fuse:** T 6.3A
- **Dimension :** 515 x 225 x 142mm
- **Weight :** 8.9Kgs



### 3. How To Set The Unit

#### 3.1 Control panel



① **Display:** To show the various menus and the selected functions

② **Indicator LED:**

DMX	On	DMX input present
MASTER	On	Master Mode
SLAVE	On	Slave Mode
SOUND	Flashing	Sound activation

③ **Button:**

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

④ **Fuse(T 6.3A):** Protect the fixture from the damage of over-current.

⑤ **Microphone:** To receive music for the sound active.

⑥ **Mains output:** Connect to supply mains power for the next fixture.

⑦ **Mains input:** Connect to supply mains power

⑧ **DMX input:** For DMX512 link, use 3/5-pin XLR plug cable to input DMX signal

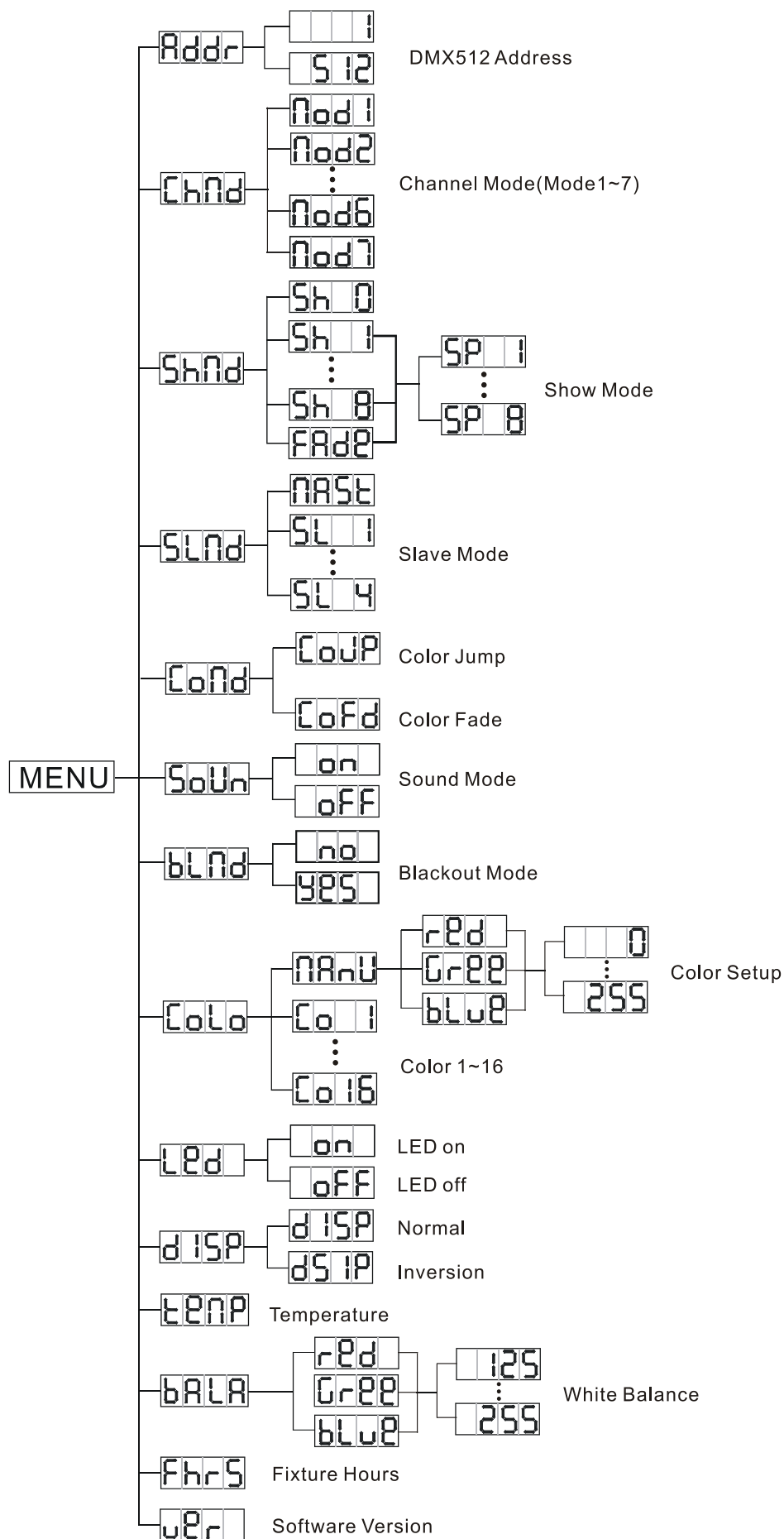
⑨ **DMX output:** For DMX512 link, use 3/5-pin XLR plug cable to link the next fixture.

⑩ **Safety Ring:** Keep the installation safe.

### **3.2 Main Function**

To select any of the given functions, press the **MENU** button up to when the required one is showing on the display. Select the function by **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

The main functions are showing below:



## **Addr** DMX 512 Address Setting

Press the **MENU** button up until **Addr** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to change the DMX 512 Address. Once the address has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

## **Chnd** Channel Mode

Press the **MENU** button up until **Chnd** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select **Mod 1** (mode 1) or **Mod 2** (mode 2)...**Mod 7** (mode 7), Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

## **Shnd** Show Mode

Press the **MENU** button up until **Shnd** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select **Sh 0** (show 0), **Sh 1** (show 1)...**Sh 8** (show 8) or **FADE** (Fade). Press either **Sh 1**...or **Sh 8**, **FADE**, you can adjust the speed from **SP 1** (the slowest) to **SP 8** (the fastest). Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

## **SLnd** Slave Mode

Press the **MENU** button up until **SLnd** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select **MAST** (master), **SL 1** (slave 1) ...or **SL 4** (slave 4). Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.



## **CoNd** Color Mode

Press the **MENU** button up until **CoNd** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select **CoJP** (Color Jump) or **CoFd** (Color Fade). Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

## **SoUn** Sound Mode

Press the **MENU** button up until **SoUn** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select **on** or **off**. Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.




## **bLNd** Blackout Mode

Press the **MENU** button up until **bLNd** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select **yes** (black out) or **no** (normal). Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.




## **CoLo** Color Setup

Press the **MENU** button up until **CoLo** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select **MANU**, **Co1** (color 1)...**Co16** (color 16), when you have selected the **MANU** button and press the **ENTER** button, you can use the **DOWN** and the **UP** button select the **red** (red), **GrEE** (green), **BLUE** (blue) and you can adjust the intensity from **000** to **255**. Back to the previous functions without any change press the **MENU** button.


## **LED Display**

Press the **MENU** button up until  is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select  (LED on) or  (LED off). Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.





## **Display Inverse**

Press the **MENU** button up until  is shown on the display. Use the **ENTER** button to select  (normal) or  (inverse). Back to the previous functions without any change press the **MENU** button.


## **Temperature**

Press the **MENU** button up until  is shown on the display. Pressing the **ENTER** button and the unit will show the temperature. Back to the previous functions without any change press the **MENU** button.

## **White Balance**


Press the **MENU** button up until  is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select ,  or . Once selected, press the **ENTER** button to adjust the value (125~255), or automatically exit menu mode without any change after 8 seconds. Back to the previous functions without any change press the **MENU** button.

## **Fixture Hours**

Press the **MENU** button up until  is shown on the display. Pressing the **ENTER** button and the display will show the number of working hours of the unit. Back to the previous functions without any change press the **MENU** button.




## Software Version

Press the **MENU** button up until  is shown on the display. Pressing the **ENTER** button and the display will show the version of software of the unit. Back to the previous functions without any change press the **MENU** button.

## 4. How To Control The Unit

You can operate the unit in two ways:

1. By master/slave function
2. By DMX controller

No need to turn the fixture off when you change the DMX address, as new DMX address setting will be affected at once. Each time when you turn the fixture on, it will show “” on the display. After that the fixture will be ready to receive DMX signal or run the built in programs.


### 4.1 Master/Slave Function

By linking the fixtures in master/slave connection, the first fixture will be master automatically.

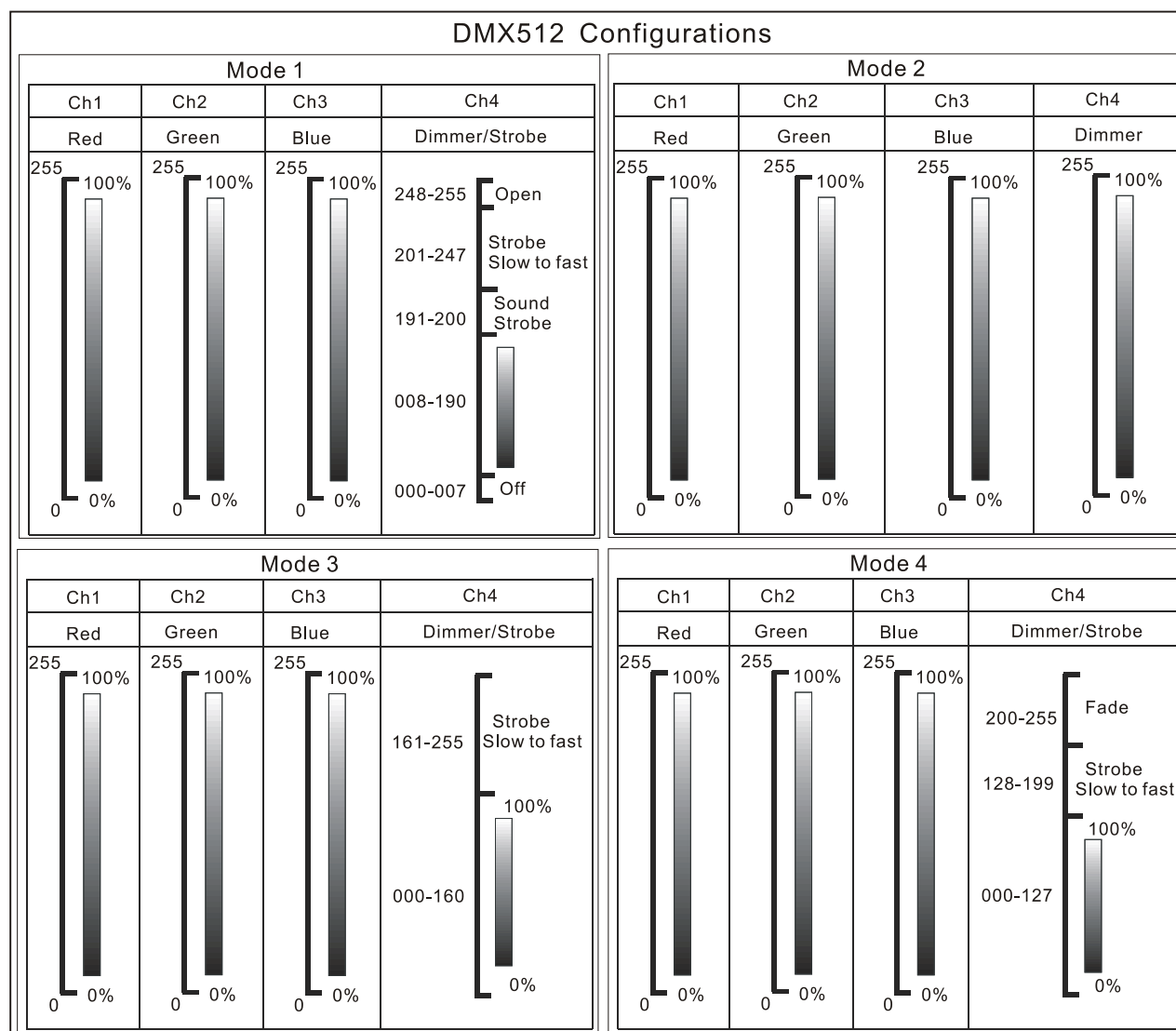
You should set the master fixture effect via its knobs, then the other fixtures (slave) will lighting as the same.

### 4.2 DMX Controller

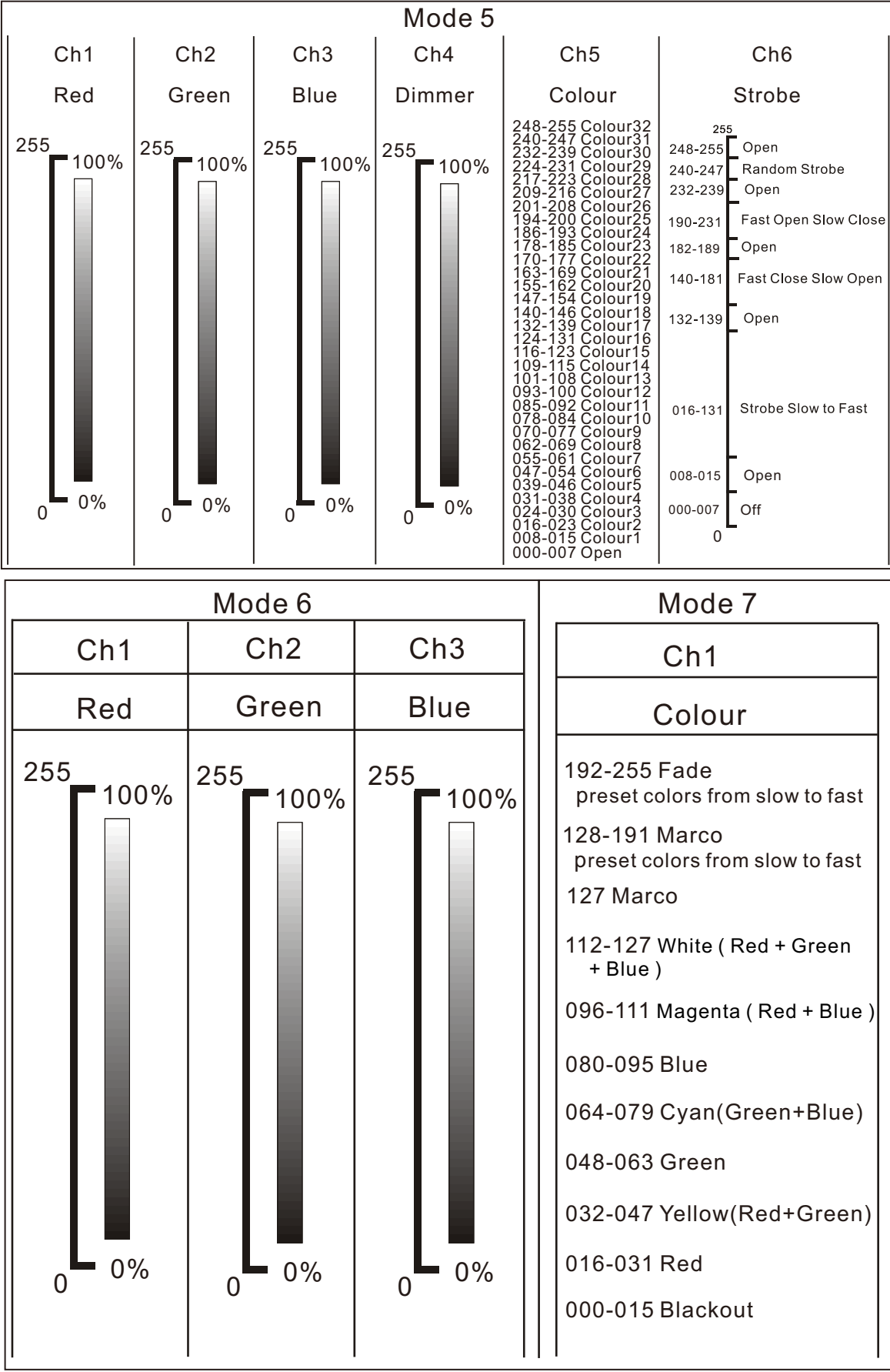
An universal DMX controller to control the fixtures, you have to set DMX address from 1 to 512 channel so that the fixtures can receive DMX signal.

Press the **MENU** button up to when the  is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button pressed up to when the display stops blinking or storing automatically 30 seconds later. To go back to the functions without any change press the **MENU** button again.

1 Channel Mode:	<div><div></div><div></div><div></div><div>1</div></div>	<div><div></div><div></div><div></div><div>2</div></div>	<div><div></div><div></div><div></div><div>3</div></div>	<div><div></div><div></div><div></div><div>4</div></div>
3 Channels Mode:	<div><div></div><div></div><div></div><div>1</div></div>	<div><div></div><div></div><div></div><div>4</div></div>	<div><div></div><div></div><div></div><div>7</div></div>	<div><div></div><div></div><div></div><div>10</div></div>
4 Channels Mode:	<div><div></div><div></div><div></div><div>1</div></div>	<div><div></div><div></div><div></div><div>5</div></div>	<div><div></div><div></div><div></div><div>9</div></div>	<div><div></div><div></div><div></div><div>13</div></div>
6 Channels Mode:	<div><div></div><div></div><div></div><div>1</div></div>	<div><div></div><div></div><div></div><div>7</div></div>	<div><div></div><div></div><div></div><div>13</div></div>	<div><div></div><div></div><div></div><div>19</div></div>

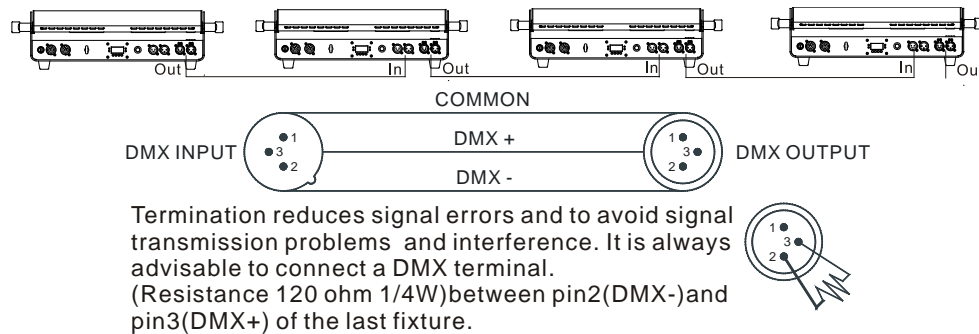


Mode 5/6/7:



## 6. DMX512 Connection

The DMX512 is widely used in intelligent lighting control, with a maximum of 512 channels.



1. Connect the fixture together in a “daisy chain” by XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a “Y” cable. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system
2. The DMX output and input connectors are pass-through to maintain the DMX circuit when one of the fixtures’ power is disconnected.
3. At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. 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 fixture.
4. Each lighting fixture needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
5. 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 (+),

Pin4/5: not used

## **7. Troubleshooting**

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

### **A. The fixture does not work, no light**

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

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

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

### **C. No response to the sound**

1. Make sure the fixture does not receive DMX signal.
2. Check microphone to see if it is good by tapping the microphone.

### **D. 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 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 fixture's optics.

- Clean with soft cloth using normal glass cleaning liquid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.







### **Declaration of Conformity**

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009 ; EN55103-2: 2009; EN62471: 2008;  
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

**&**

### **Harmonized Standard**

EN 60598-1:2008 + All:2009; EN 60598-2-17:1989 + A2:1991;  
EN 62471:2008; EN 62493: 2010

Safety of household and similar electrical appliances  
Part 1: General requirements

**Innovation, Quality, Performance**