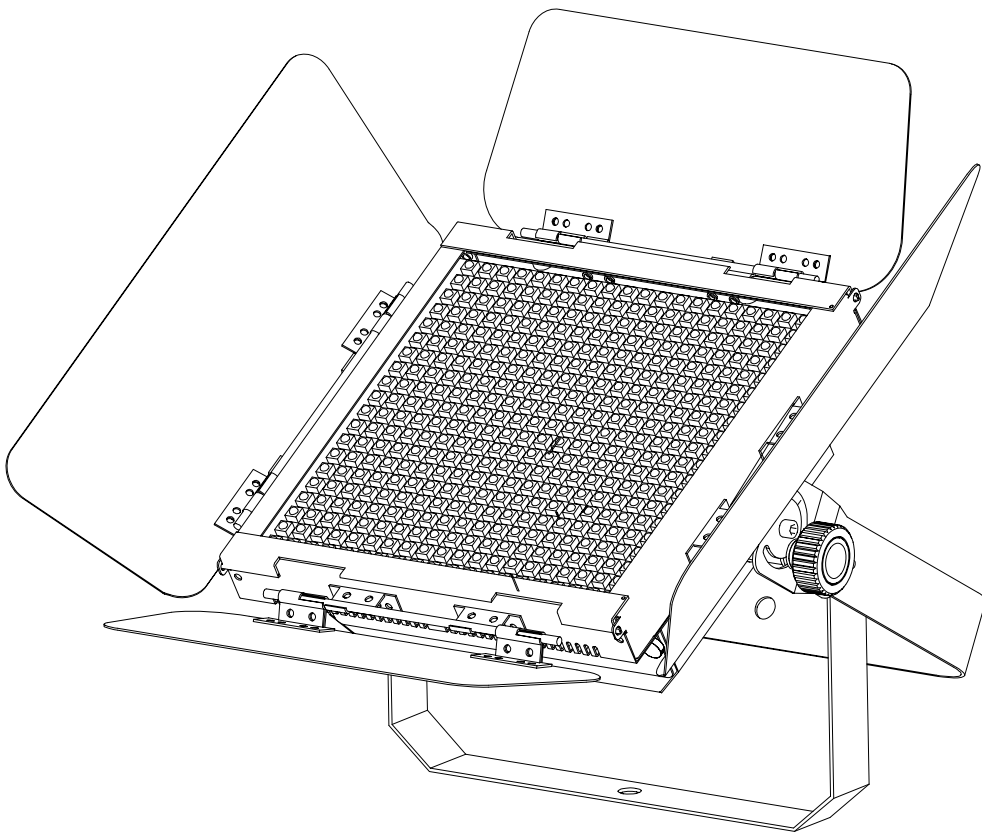




Light Panel **400**



LED-LP400

User Manual

Please read it carefully before using

Contents

1. Safety Introductions	2
2. Technical Specifications.....	3
3. Installation	3
4. How To Set The Fixture	4
4.1 Control Panel.....	4
4.2 Main Function	5
5. How To Control The Unit.....	8
5.1 Master/Slave Function	9
5.2 DMX Controller.....	9
6. DMX512 Configuration	10
7. DMX512 Connections.....	10
8. Troubleshooting	11
9. Fixture Cleaning	12

1. Safety Introductions



WARNING

Please read the instructions carefully which includes important information about the installation, operation and maintenance.

- Please keep this User Manual 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 and 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 mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- Make sure there are not flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit.
- Maximum ambient temperature is TA: 40°C and don't operate it where the temperature is higher than this.
- There are no user serviceable parts inside the fixture. Do not open the housing or attempt any repairs by yourself. In the unlikely event your fixture may require service, please contact the nearest authorized technical assistance center and always use the same type spare parts.
- Don't connect the device to any dimmer pack or power pack.
- Do not look directly at the LED light beam while the fixture is on.
- The housing must be replaced if they are visibly damaged.
- Do not touch any wire during operation as high voltage might be causing electric shock.
- Due to the magnifying type lens, please keep the lens out of contact with direct sunlight.

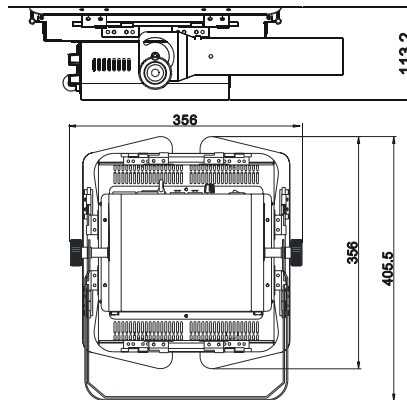
Direct sunlight can cause heat to build up inside of the unit, which will seriously damage unit.

For 230V 50Hz power supply, maximum fixtures that can be connected on one power cable is 20;
For 120V 60Hz power supply, maximum fixtures that can be connected on one power cable is 12;

2. Technical Specifications

- It can be operated by DMX512 control or can be used as an individual unit without controller.
- It can be linked together as many as required in master/slave mode, and perform the great built-in programmed lighting shows triggered by music.
- Please use a 3 pin XLR cable/plug when connecting them together.
- It features different pre-programmed chase patterns.
- 2/3 Channel modes.

- **Voltage:** AC 100V-240V,50/60Hz
- **LED:** 400pcs
- **Power consumption :** 26W
- **Fuse:** T 6.3A
- **Dimension :** 406 x 356 x 114mm
- **Weight :** 6.2KG



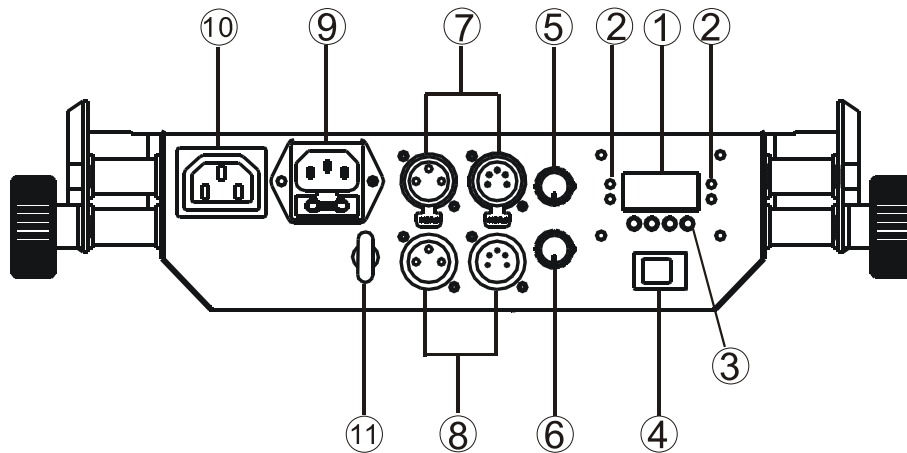
3. Installation

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. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

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

4. How To Set The Fixture

4.1 Control Panel



1. **Display:** Used 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
COLOR TEMP.	Flashing	Max. power consumption of CW/WW

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. **Battery Switch:** Used to connect or disconnect the battery power supply.

5. **Dimmer Adjust Knob:** Used to adjust lightness for the unit.

6. **Color Adjust Knob:** Used to adjust the color temperature from 3200k to 6500k,

7. **DMX Output:** For DMX512 link, use 3/5-pin XLR plug cable to link the next unit.

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

9. **Mains Output:** Used to provide power supply for the next machine.

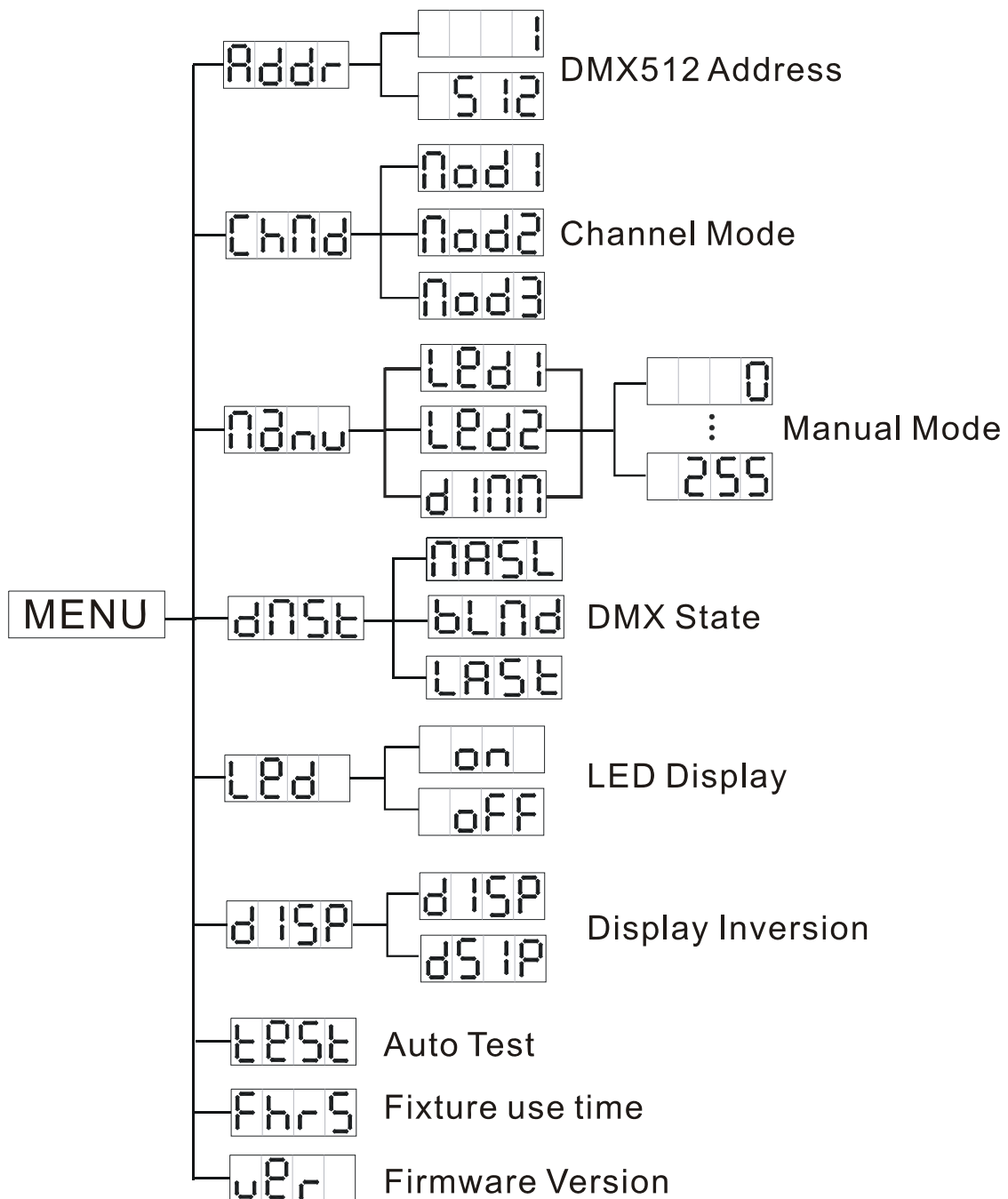
10. **Mains Input:** Used to connect to supply mains power.

11. **Safety Hook:** Ensure the safety of the fixture installation.

4.2 Main Function

To select any functions, press the **MENU** button until the required one is shown on the display. Select the function by the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press the **ENTER** button to setup or it will automatically return to the main functions without any change after idling 30 seconds. Back to the functions without any change press the **MENU** button.

The main functions are shown below:



Addr DMX 512 Address

Press the **MENU** button up to when the **Addr** is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **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 to when the **Chnd** is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **Mod1** (2 channels) or **Mod2** (2 channels) or **Mod3** (3 Channels) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. To go back to the functions without any change press the **MENU** button.

Manu Manual Mode

Press the **MENU** button up to when the **Manu** is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **LED1** or **LED2** or **dimn** (dimmer) mode, press the **ENTER** button to confirm, use the **UP** and **DOWN** button to adjust the value between 0 and 255, once select press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. To go back to the functions without any change press the **MENU** button.

dmst DMX State

Press the **MENU** button up to when the **dmst** is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **MSL** (Master/Slave Mode) , **blnd** (Blackout) or **LAST** (remain the last state when exiting the menu). Once select press the **ENTER** button to setup or automatically exit menu mode without any change after 8 seconds. To go back to the functions without any change press the **MENU** button.

LED LED display

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

MENU button again.

diSP Display Inverse

Press the **MENU** button until the **diSP** is blinking on the display. Use the **DOWN** and **UP** button to select the **diSP** (normal) or **diSP** (inverse), press the **ENTER** button to setup. Back to the functions without any change press the **MENU** button.

test Auto Test

Press the **MENU** button up to when the **test** is blinking on the display. Press the **ENTER** button and the unit will run the built-in programmer for self-test. To go back to the functions press the **MENU** button.

Fhrs Fixture use time

Press the **MENU** button up to when the **Fhrs** is blinking on the display. Pressing **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button.

ver Software version

Press the **MENU** button up to when the **ver** is blinking on the display. Press the **ENTER** button and the display will show the version of software of the unit. To go back to the functions press the **MENU** button again.

5. 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 unit off when you change the DMX address, as new DMX address setting will be affected at once. Every time you turn the unit on, it will show type on the display. After that the unit will be ready to receive DMX signal or run the built in programs.

5.1 Master/Slave Function

By linking the units in master/slave connection, the first unit will be master automatically. You should set the master unit effect via its knobs, then the other units (slave) will lighting as the same.

5.2 DMX Controller

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

Press the **MENU** button up to when the **Addr** 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.

If you use please refer to the following diagram to address your DMX512 channel for the first 4 units.

2 channels:

				1
--	--	--	--	---

				3
--	--	--	--	---

				5
--	--	--	--	---

				7
--	--	--	--	---

3 channels:

				1
--	--	--	--	---

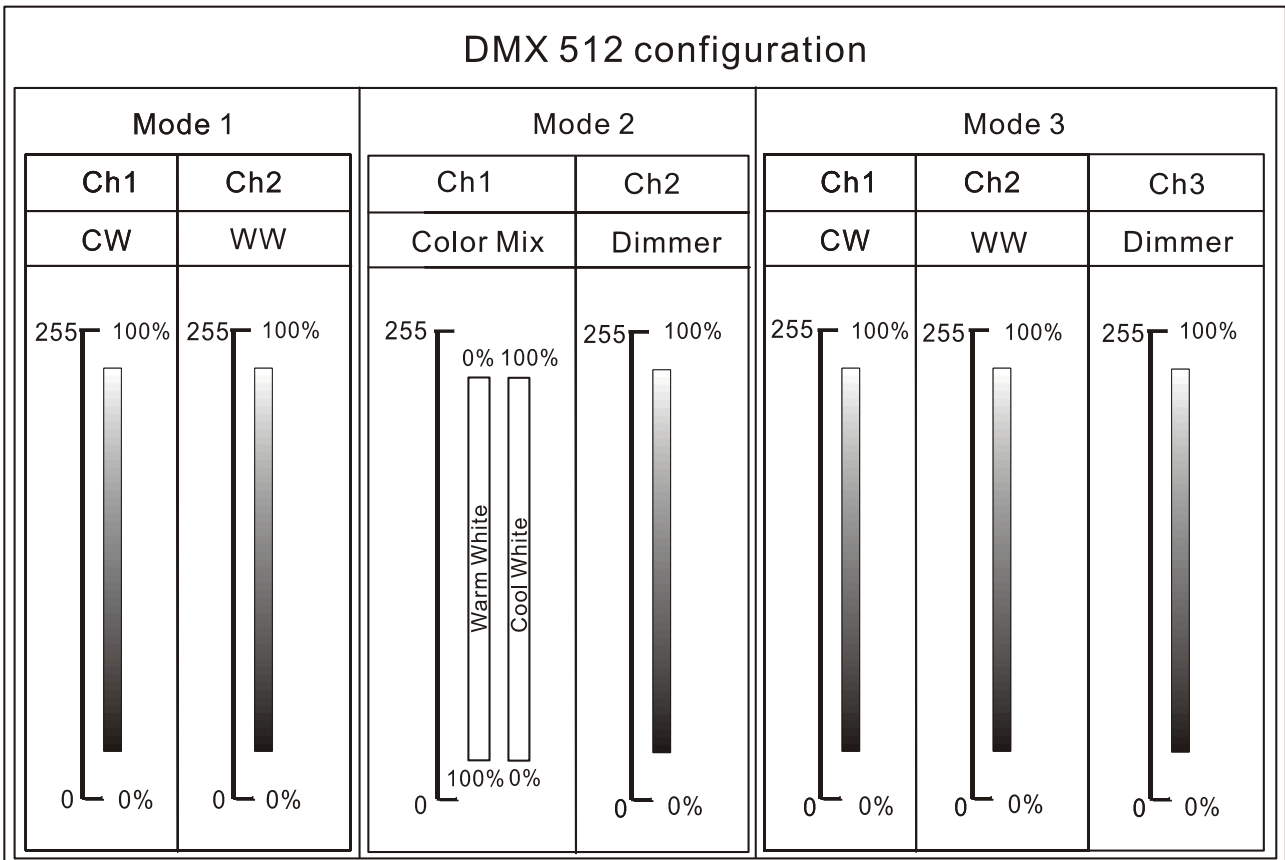
				4
--	--	--	--	---

				7
--	--	--	--	---

				10
--	--	--	--	----

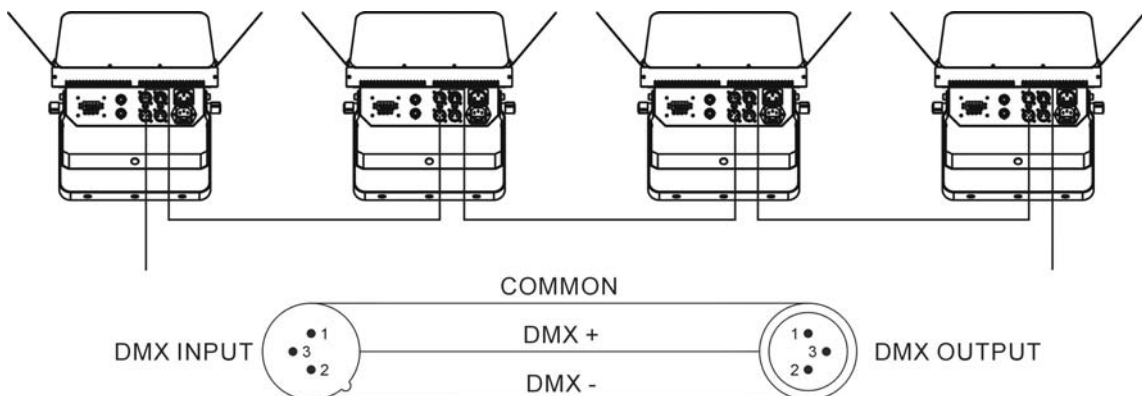
6. DMX512 Configuration

2/3 Channels Mode:

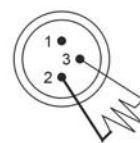


7. DMX512 Connections

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



Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal. (Resistance 120 ohm 1/4W) between pin2(DMX-) and pin3(DMX+) of the last fixture.



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 units’ 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

8. 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.

9. 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 fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

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