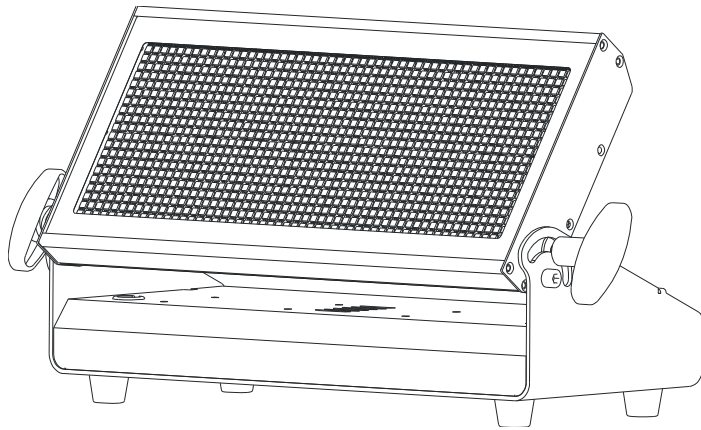




## EP 1080 Event Panel/Strobe



**Order code: ELUM052**

**User Manual**

[www.prolight.co.uk](http://www.prolight.co.uk)

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## 1. Safety Introductions



### WARNING

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

- Please keep this User Manual for future consultation. If you sell the fixture to another user, be sure that they also receive this instruction booklet.
- Unpack and check carefully there is no transportation damage before using the fixture.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the fixture.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The fixture is for indoor use only and use only in a dry location.
- The fixture 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 fixture while operating as it could present a fire hazard.
- Use safety cable when fixes this fixture.
- Maximum ambient temperature is TA: 40 degrees and don't operate it where the ambient temperature is higher than this.
- The fixture must be installed in a location with adequate ventilation. Be sure that no ventilation slots are blocked.

- DO NOT 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.
- Fixture surface temperature may reach up to 65 degrees. DO NOT touch the hous with bare-hands during its operation, and allow about 15 minutes to cool down before servicing, as the fixture could be very hot
- DO NOT touch any wire during operation as high voltage might be causing elec shock.

### Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain 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.
- Do not stare directly into the light.
- Don not operate the fixture near stairways.
- Provide advance notice that strobe lighting is in use.
- Avoid extended periods of continuous flashing, particularly at frequencies of 10 to flashes per second.

### 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 the two pairs of omega clamp fixings on the base of the unit. Only use the original omega clamps supplied with the fixture. 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 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.

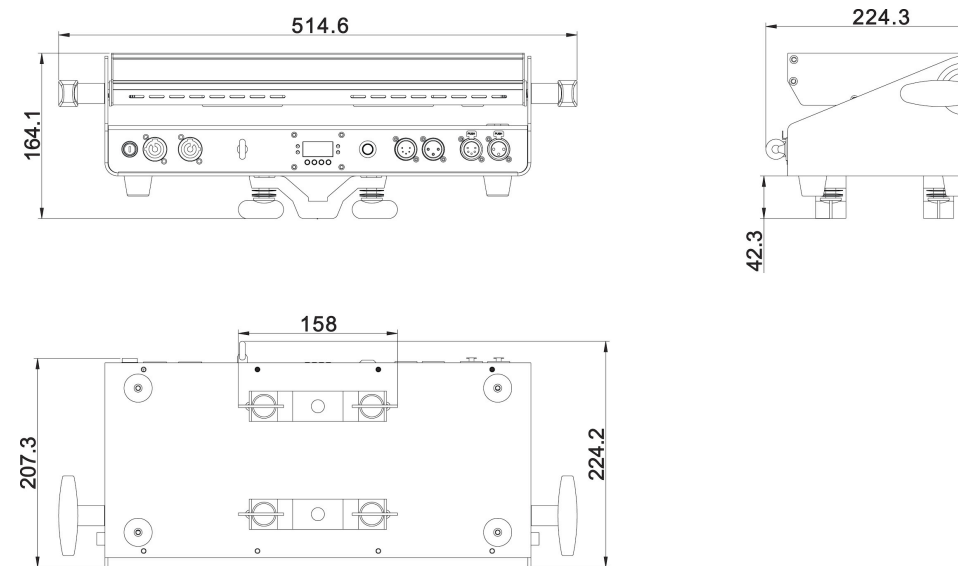
If using a 240V 50Hz power supply, DO NOT connect in series more than 3 units; use another main supply for the next 3 fixtures.

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.

## 2. Technical Specifications

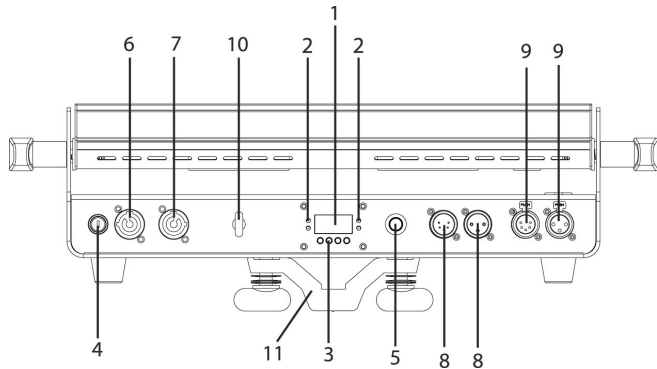
- DMX Channels: 1/3/4/4/4/4 or 6 selectable
- Smooth 0~100% dimming and variable strobe speeds
- Three Operation Modes: DMX, Master/Slave, Sound Active
- The DMX Address code can be set by the DMX tester CA-T
- Variable strobe effects
- Beam Angle: 135 degrees

- **Voltage:** AC 100-240V, 50/60Hz
- **Power Consumption:** 247W
- **LED:** 1080pcs SMD RGB(Tri-colour) LEDs
- **Fuse:** T 6.3A
- **Dimensions:** 515 x 203 x 122mm
- **Weight:** 8.9Kgs



### 3. How To Set The Fixture

#### 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

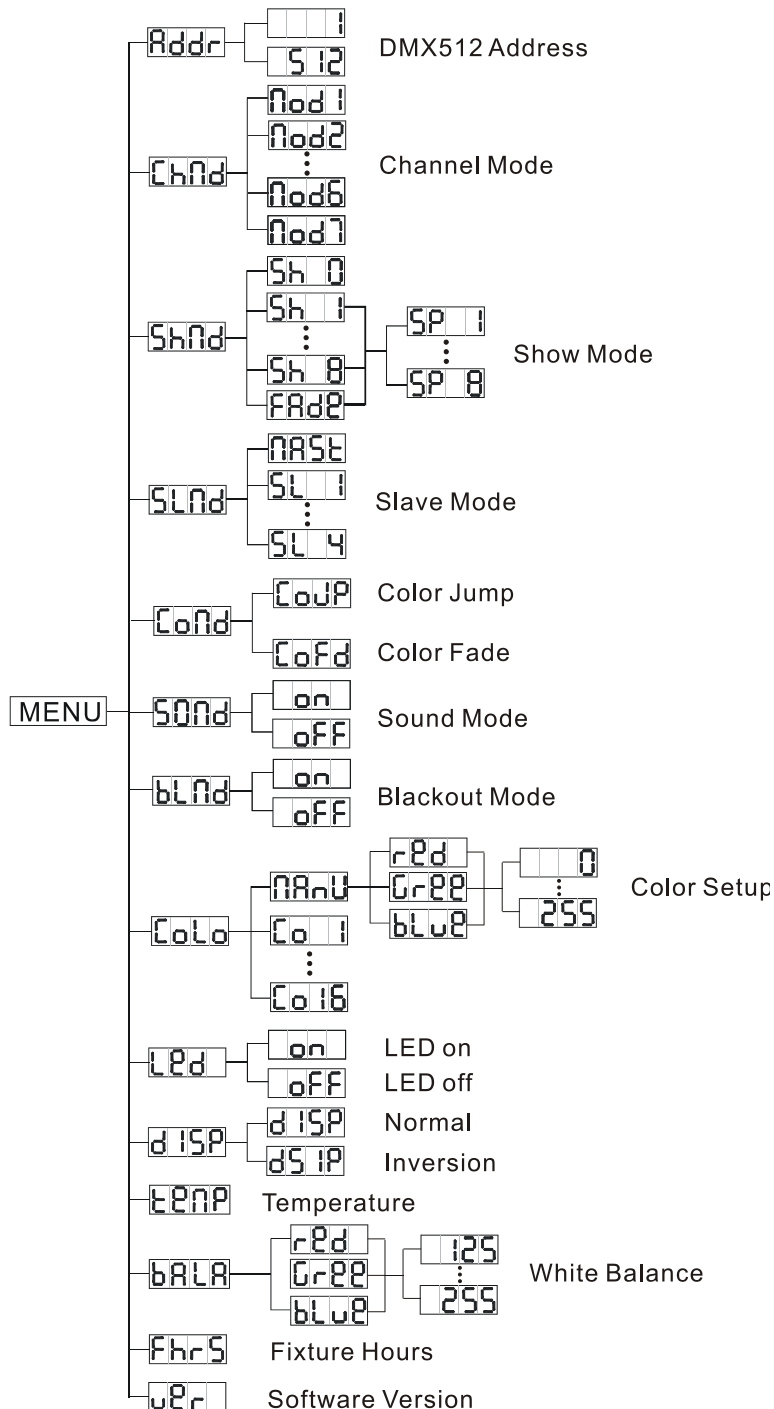
3. **Button:**

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 modes.
6. **Mains output:** Connect to mains power supply for the next fixture.  
Power output is via Nuetrik® Powercon® “B” outlet (grey)
7. **Mains input:** Connect to mains power supply  
Power input is via Nuetrik® Powercon® “a” outlet (blue)
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 Eye**
11. **Omega clamp**

#### 3.2 Main Function

To select any functions, press the **MENU** button until the required one is shown on display. Select the function by the **ENTER** button and the display will blink. Use the **DOWN** and the **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 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 Setting

Press the **MENU** button up until **Addr** is shown on the display. Pressing the **ENT** button and the display will blink. Use the **DOWN** and the **UP** button to change the DMX Address. Once the address has been selected, press the **ENTER** button to setup 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 **ENT** 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 **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 **ENT** 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**, **Sh 8**, **FADE**, you can adjust the speed from **SP 1** to **SP 8**. 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 **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.

## SOnd Sound Mode

Press the **MENU** button up until **SOnd** 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 **on** (black

out) or **off** (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 with 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 **Co 1** (color 1)...**Co 16** (color 16), when you have selected the **Co 1** 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 **00** to **25**. Back to the previous functions without any change press the **MENU** button.

## LEd LED Display

Press the **MENU** button up until **LEd** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select **on** (LED on) or **off** (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 with any change press the **MENU** button.

## dISP Display Inverse

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

TEMP

### Temperature

Press the **MENU** button up until **TEMP** 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 MENU button.

BALR

### White Balance

Press the **MENU** button up until **BALR** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and the **UP** button to select **RED**, **GREEN** or **BLUE**. 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.

Fhrs

### Fixture Hours

Press the **MENU** button up until **Fhrs** 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.

v2r

### Software Version

Press the **MENU** button up until **v2r** 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 Fixture

Please access the fixture 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. Every time you turn the fixture on, it will show "1080" 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 fixture (slave) will light as the same.

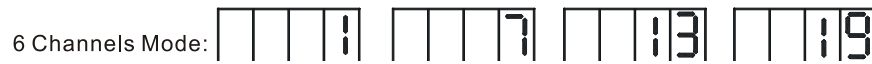
### 4.2 DMX Controller

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 **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 previous functions without any change press the **MENU** button again.

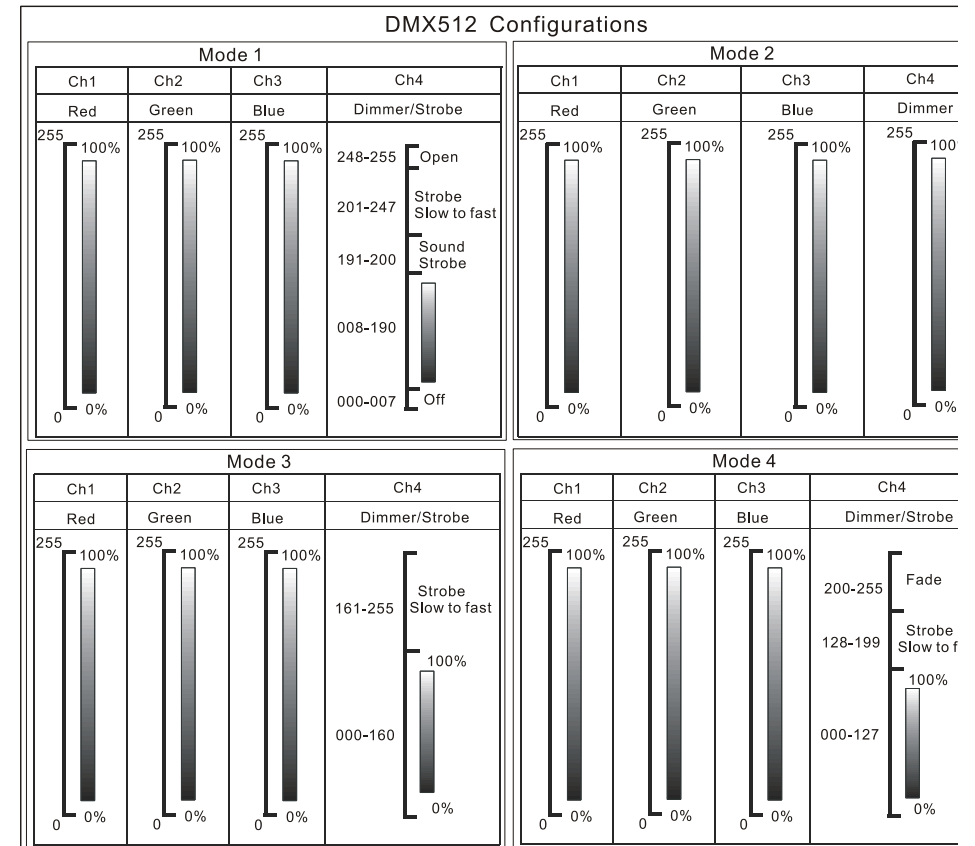
If you use please refer to the following diagram to address your DMX512 channel for the first

4 fixtures.



## 5. DMX512 Configuration

4CH DMX chart with modes 1 to 4:





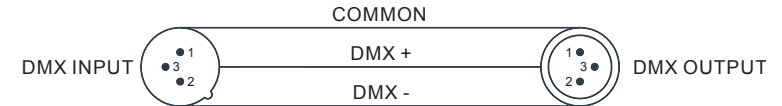
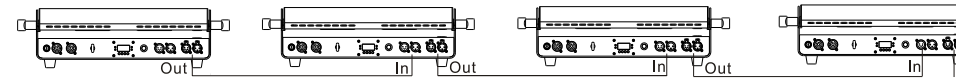
1CH (MODE 7), 3CH (MODE 6) and 6CH (MODE 5) DMX charts:

Mode 5					
Ch1	Ch2	Ch3	Ch4	Ch5	Ch6
Red	Green	Blue	Dimmer	Colour	Strobe
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	248-255 Colour32 240-247 Colour31 232-239 Colour30 224-231 Colour29 217-223 Colour28 209-216 Colour27 201-208 Colour26 194-200 Colour25 186-193 Colour24 178-185 Colour23 171-177 Colour22 163-170 Colour21 155-162 Colour20 147-154 Colour19 140-146 Colour18 132-139 Colour17 124-131 Colour16 116-123 Colour15 109-115 Colour14 101-108 Colour13 093-100 Colour12 085-092 Colour11 078-084 Colour10 070-077 Colour9 063-069 Colour8 055-061 Colour7 047-054 Colour6 039-046 Colour5 031-038 Colour4 024-030 Colour3 016-023 Colour2 008-015 Colour1 000-007 Open	248-255 Open 240-247 Random Strobe 232-239 Open 190-231 Fast Open Slow Close 182-189 Open 140-181 Fast Close Slow Open 132-139 Open 016-131 Strobe Slow to Fast 008-015 Open 000-007 Off

Mode 6			Mode 7
Ch1	Ch2	Ch3	Ch1
Red	Green	Blue	Colour
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	192-255 Fade preset colors from slow to fast 128-191 Macro preset colors from slow to fast 127 - Macro 111-126 White ( Red + Green + Blue ) 095-110 Magenta ( Red + Blue ) 079-094 Blue 063-078 Cyan(Green+Blue) 047-062 Green 031-046 Yellow(Red+Green) 015-030 Red 000-014 Blackout

## 6. DMX512 Connection

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 1 fixture to the input of the next fixture. The cable cannot be branched or split to a ' cable. Inadequate or damaged cables, soldered joints or corroded connectors c easily distort the signal and shut down the system
2. The DMX output and input connectors are pass-through to maintain the DMX circ when one of the fixtures' power is disconnected.
3. At last fixture, the DMX cable has to be terminated with a terminator (3-pin, CABL90) (5-pin CABL89) to reduce signal errors. Solder a 120-ohm 1/4W resistor | 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of 1 last fixture.
4. Each lighting fixture needs to have an address set to receive the data sent by 1 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. Ensure fixture is in sound active mode.
2. Make sure the fixture does not receive DMX signal.
3. Check microphone to see if it is good by tapping the microphone.

## 8. Fixture Cleaning

The cleaning of internal must be carried out periodically to optimize light output. Clean 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 opti

- 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 ev 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

EN60598-2-17:1989 + A2:1991; EN60598-1:2008+ A11: 2009

Safety of household and similar electrical appliances

Part 1: General requirements

**English**



***Correct Disposal of This Product  
(Waste Electrical & Electronic Equipment)***

**(Applicable in the European Union and other European countries with separate collection systems)**

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.