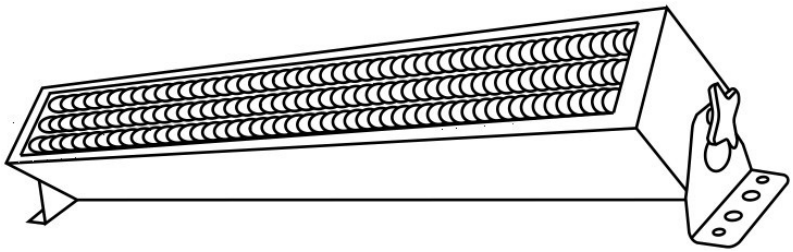
LUMINA PRO LIGHTING

LED Color Bar 252 x 10MM

(SKU: SH-LED252)



LINKABLE
STAND ALONE

SOUND ACTIVATED

DMX512

User Manual

Please read the instructions carefully before use

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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 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.
- Disconnect main power before servicing and maintenance.
- Use safety chain when fixes this fixture. Don't handle the fixture by taking its head only, but always by taking its base.
- Maximum ambient temperature is 40^0C. Don't operate it where the temperature is higher than this.
- In the event of serious operating problem, stop using the fixture immediately. Never try to repair the fixture 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 connect the device to any dimmer pack.
- Do not touch any wire during operation and there might be a hazard of electric shock.
- To prevent or reduce the risk of electrical shock or fire, do not expose the fixture to rain or moisture.
- The housing must be replaced if they are visibly damaged.
- Do not look directly at the LED light beam while the fixture is on.

Caution

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

2. Technical Specifications

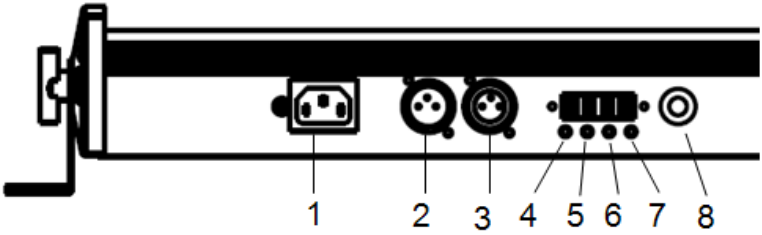
• DMX-512 Protocol Compatible (2,3,4,,6,7 or 14 DMX Channels)
• 252 pcs 10mm RGB LEDs(84 red,84 green,84 blue)
• 4 Operating Modes - Master/Slave; Auto; Sound Active,DMX512
• 0-100% strobe,0-100% dimmer flicker free
• 255 static colours and RGB colour mixing
• Color gradual change/color jump change, speed adjustable
• Digital Display for Address and Function Setting
• With Sound Active Shows
• Power supply: AC 100-240V 50/60Hz
• Power Consumption: 30W
• Power Daisy connection available
• Bulb life:50,000 hours
• Packing Size:L1020×W65×H65 mm
• Weight:1.9kgs

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.

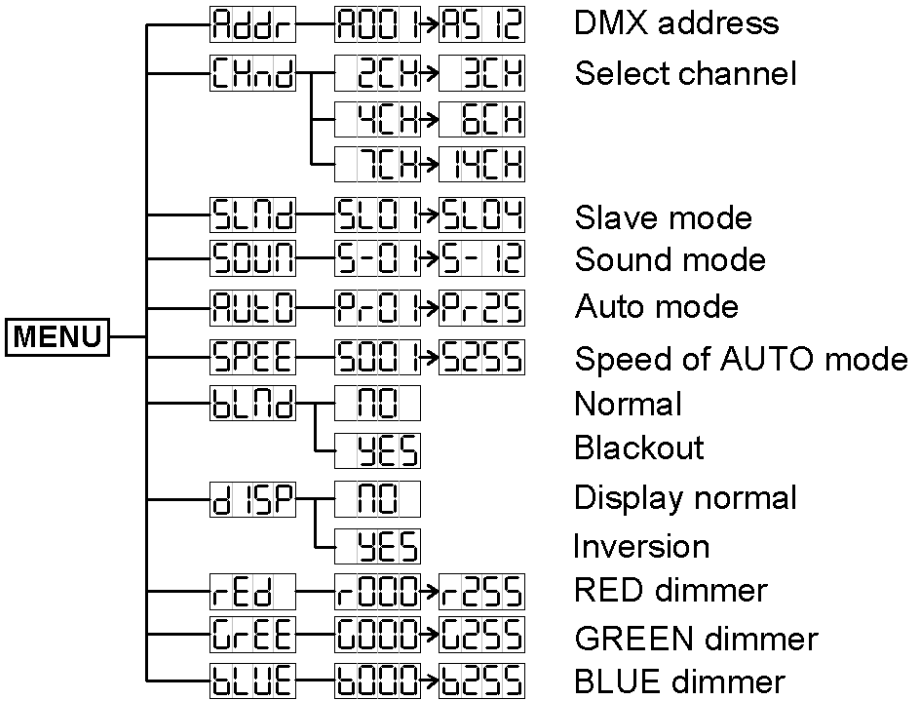
4. How To Set The Unit

4.1 Control Panel



1. **Mains input：** Connect to supply mains power.
2. **DMX input:** For DMX512 link, use 3pin XLR plug cable to input DMX signal.
3. **DMX output：** For DMX512 link, use 3/5-pin XLR plug cable to link the next unit.
4. **MENU** Forward over the menu /Return to a layer of the menu
5. **UP** Increase parameters
6. **DOWN** Reduce parameters
7. **ENTER** Into the next level menu
8. **Microphone：** Receive music for the sound active

4.2 Main Function



Addr DMX 512 Address Setting

1. Tap the either the MENU, UP, or DOWN buttons until “ADDR” is displayed, press ENTER.

2. “ A001 ” will now be displayed . Press the UP or DOWN buttons to indicate your desired address.(A001 to A512) Leave the display on this address, and after a few seconds the address will be saved into memory.

ChAd **This will let you switch between 6 Channel DMX mode and 2Ch/3Ch/4Ch/6Ch/7Ch/14Ch Channel DMX mode.**

1. Tap the either the MENU,UP button until “ ChAd ” is displayed, press ENTER.

“ 2CH ” to “ 14CH ”6 DMX mode will be displayed.

2. Tap the UP or DOWN buttons to choose your desired DMX mode and press ENTER to

confirm and exit.

 **This will let you set unit as a master or slave in a master/slave configuration.**

1. Tap the either the MENU,UP button until “  ” is displayed, press ENTER. “ ” to “  ” will be displayed.

2. Tap the UP or DOWN buttons until your desired setting is displayed, press ENTER to confirm and exit.

 **in this mode you can choose your desired sound active show**

1. Tap the either the MENU,UP button until “  ” is displayed, press ENTER.  to  Sound mode program will be displayed.

2. Tap the UP or DOWN buttons to scroll through sound active shows.

3. Select your desired show by pressing the ENTER button to confirm and exit.

 **in this mode you can choose your desired stand alone modes. Total 25 preset programs available.**

1. Tap the either the MENU,UP button until “  ” is displayed, press ENTER.  to  Stand alone mode program will be displayed.

2. Tap the UP or DOWN buttons to scroll through stand alone shows.

3. Select your desired show by pressing the ENTER button to confirm and exit.

 **in this mode you can adjust stand alone shows speed and sound activated sensitivity.**

1. Tap the either the MENU,UP button until “  ” is displayed, press ENTER.  to  Stand alone mode speed and sound activated Sensitivity adjustment will be

displayed.

2. Tap the UP or DOWN buttons to scroll through stand alone shows and sound activated.

3. Select your desired speed by pressing the ENTER button to confirm and exit.

 **Blackout or Standby mode.**

1. Tap the either the MENU,UP button until “  ” is displayed, press ENTER. Either Yes or No will be displayed.

2. To activate Blackout tap the UP or DOWN buttons until  is displayed, press ENTER to confirm and exit. The fixture will now be in Blackout mode. To deactivate Blackout mode, select  and press Enter.

 **This function will reverse the display 180º.**

1. Tap the either the MENU,UP button until “  ” is displayed, press ENTER.

2. Press ENTER, the display will show  and 

3. Press the UP button to select “  ” to activate this function, or “  ” to deactivate this function.

4. Press ENTER to confirm.

 **Manual mode RED Dimmer :**

Press ENTER to Manu mode when the  is shown on the display. Press ENTER button and the display will blink. Use UP and DOWN button to select the  (RED 000)to  (RED 255).

 **Manual mode GREEN Dimmer :**

Press ENTER to Manu mode when the  is shown on the display. Press ENTER

button and the display will blink. Use UP and DOWN button to select the  (GREEN 000)to  (GREEN 255).

 **Manual mode BLUE Dimmer :**

Press ENTER to Manu mode when the  is shown on the display. Press ENTER button and the display will blink. Use UP and DOWN button to select the  (BLUE 000)to  (BLUE 255).

5. How to control the fixture

There are two ways to control the fixture

A. Universal DMX controller

B. Master/Slave operation

A. Universal DMX controller

The fixture can be set the DMX address remotely by universal DMX controller. First, you need to programming two scenes into a chase, and then link the fixtures to the universal DMX controller. When you run the chase, all the fixtures of the chain will be set the series DMX address automatically. The fixture uses four channels. Please refer to the following diagram to set the address for the first four units.

B. Master/Slave operation

The fixture will allow you to link 16 fixtures together and operate without a controller. In Master/Slave mode, the first fixture will control the others to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. The first fixture it's DMX input cable will have nothing connect it, and the other fixtures will be set in slave mode automatically. Their DMX input cables connect the last fixture DMX output cable (daisy chain). Any fixture can act as a Master or as a Slave

6. DMX512 Configuration

2 channels Mode:

Channel	Value	Function
CH1	0 - 255	MACROS/PROGRAMS
CH2	0 - 255	S P E E D / S O U N D SENSITIVITY CONTROL SLOW → FAST

3 channels Mode:

Channel	Value	Function
CH1	0 - 255	RED 0→100%
CH2	0 - 255	GREEN 0→100%
CH3	0 - 255	BLUE 0→100%

4 channels Mode:

Channel	Value	Function
CH1	0 - 255	RED 0→100%
CH2	0 - 255	GREEN 0→100%
CH3	0 - 255	BLUE 0→100%
CH4	0 - 255	DIMMER CONTROL 0→100%

6 channels Mode:

Channel	Value	Function
CH1	0 - 255	RED 0→100%
CH2	0 - 255	GREEN 0→100%
CH3	0 - 255	BLUE 0→100%
CH4		MACROS/PROGRAMS
CH5	0 1-255	STROBE OFF SLOW→FAST
CH6	0-255	SPEED/SOUND SENSITIVITY CONTROL* SLOW→FAST

7channels Mode:

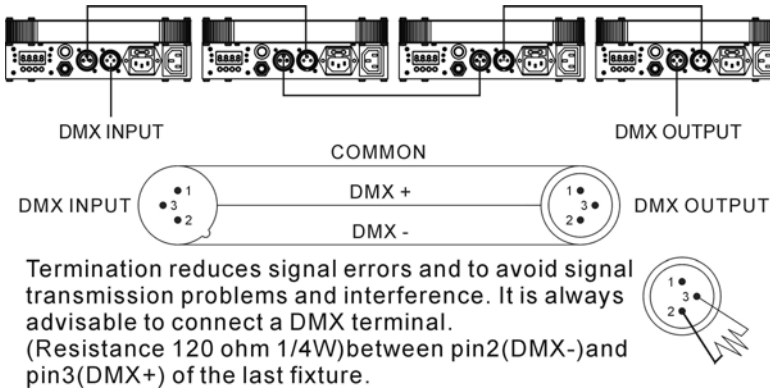
Channel	Value	Function
CH1	0 - 255	RED 0→100%
CH2	0 - 255	GREEN 0→100%
CH3	0 - 255	BLUE 0→100%
CH4		MACROS/PROGRAMS
CH5	0-255	SPEED/SOUND SENSITIVITY CONTROL* SLOW→FAST
CH6	0 1-255	STROBE OFF SLOW→FAST
CH7	0 1-255	DIMMER OFF 0→100%

14 channels Mode:

Channel	Value	Function
CH1	0 - 255	RED 1 0→100%
CH2	0 - 255	GREEN 1 0→100%
CH3	0 - 255	BLUE 1 0→100%
CH3	0 - 255	RED 2 0→100%
CH4	0 - 255	GREEN 2 0→100%
CH5	0 - 255	BLUE 2 0→100%
CH6	0 - 255	RED 3 0→100%
CH7	0 - 255	GREEN 3 0→100%
CH8	0 - 255	BLUE 3 0→100%
CH9	0 - 255	RED 4 0→100%
CH10	0 - 255	GREEN4 0→100%
CH11	0 - 255	BLUE 4 0→100%
CH12		MACROS/PROGRAMS
CH13	0-255	SPEED/SOUND SENSITIVITY CONTROL* SLOW→FAST
CH14	0 1-255	STROBE OFF SLOW→FAST

7. DMX512 Connections

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



If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.

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

The DMX output and input connectors are pass-through to maintain the DMX circuit when one of the units’ power is disconnected.

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.

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).

3 pin XLR connectors are more popular than 5 pin XLR.

3 pin XLR: Pin1: GND, Pin2: Negative signal (-), Pin3: Positive signal (+)

5 pin XLR: Pin1: GND, Pin2: Negative signal (-), Pin3: 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. Some fixtures don't respond to the easy controller

1. You may have a break in the DMX cabling. Check the LED for the response of the master/ slave mode signal.
2. Wrong DMX address in the fixture. Set the proper address.

D. 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.

E. 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.

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