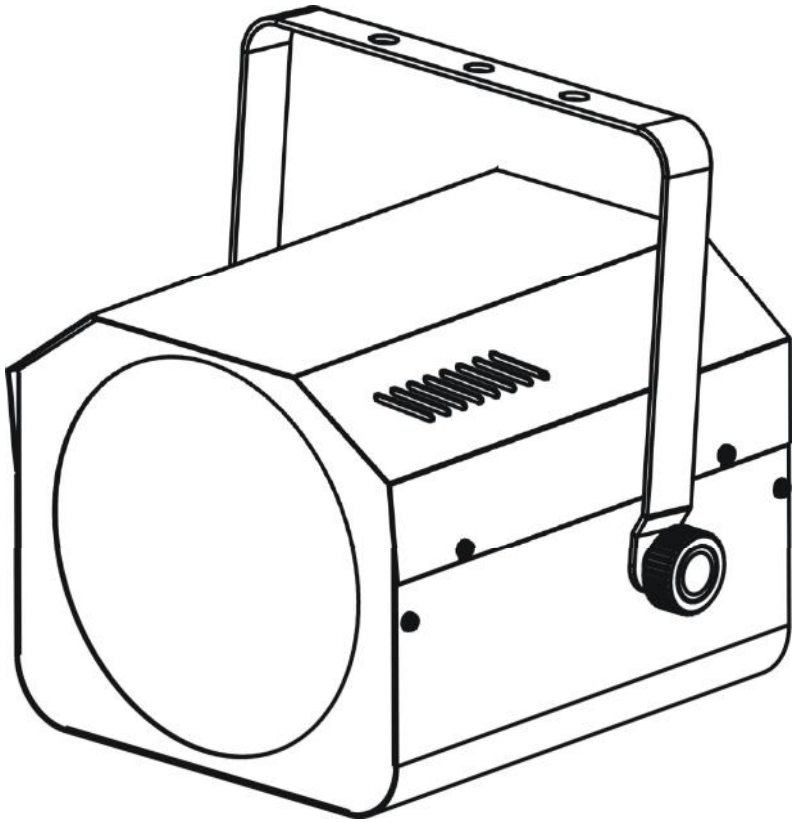
LED-737

DMX512

LINKABLE

STAND ALONE

Marvelous Sound Activation



User Manual

Please read the instructions carefully before use

TABLE OF CONTENTS

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 Ta : 40℃. 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.
- 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 your nearest dealer.

2. Technical Specifications

- **Power supply**
- Input Voltage：AC 100V-240V 50-60Hz
- Power consumption：18W
- **LED**

  Total 156pcs, Red 48pcs, Green 36pcs, Blue 36pcs, White 36pcs
- **Channels**

  Channel 1 = Mode

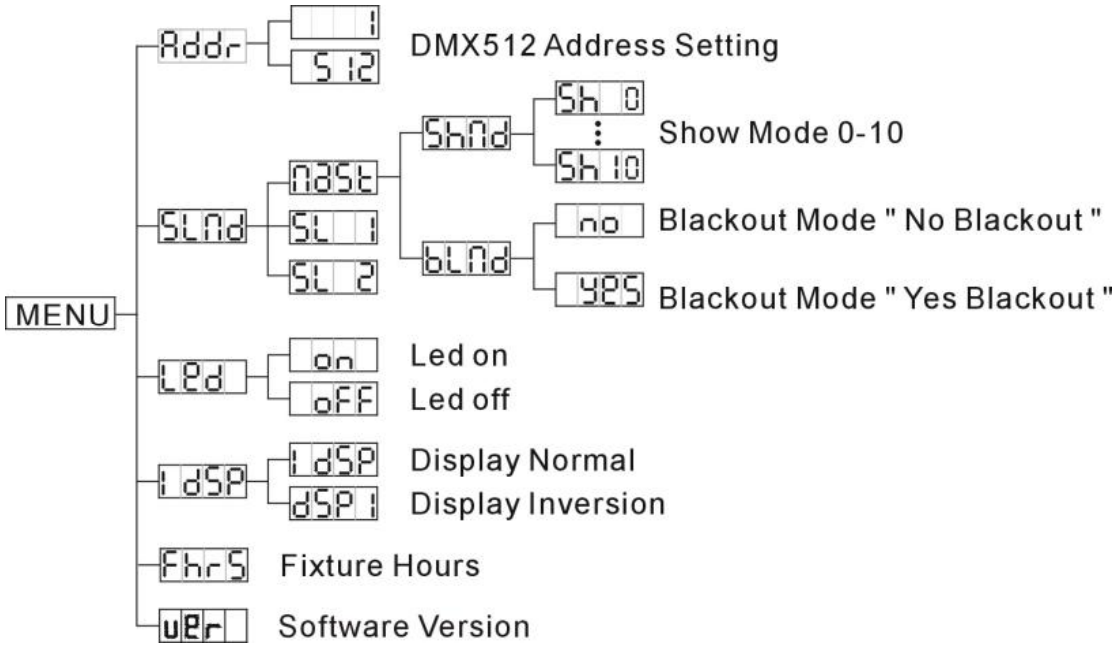
  Channel 2 = Pattern/Chase

  Channel 3 = Pattern Strobe/Chase Speed

  Channel 4 = Dimmer
- 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.
- Fan cooled.
- **Dimension：** 300mm x 308mm x 280mm
- **Weight：** 4.2KG

3. Main Function

To select any functions, press **MENU** button until the required one is shown 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 **ENTER** button to setup or it will automatically return to the main functions without any change after idling 8 seconds. Back to the functions without any change press **MENU** button. The main functions are shown below:



Addr DMX 512 Address Setting

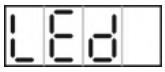
Press the **MENU** button up to when the Addr is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX 512 address. Once the address has been selected, press **ENTER** button to setup or automatically return to the main functions without any change after 10 seconds. Back to the previous functions without any change press **MENU** button.

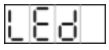
mASt Master Mode

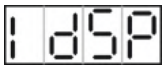
Press the **MENU** button up to when the SLnd is shown on the display. Pressing **ENTER** button, Use **DOWN** and **UP** button to select the mASt, Pressing **ENTER** button, Use **DOWN** and **UP** button to select the ShnD or bLnd. Select the ShnD Pressing **ENTER** button, Use **DOWN** and **UP** button to select the Sh 0 or SL 10. Select the bLnd Pressing **ENTER** button. Use **DOWN** and **UP** button to select the Yes or No Blackout, Back to the main functions, press the **MENU** button twice.

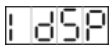
SLnd Slave Mode

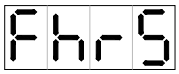
Press the **MENU** button up to when the SLnd is shown on the display. Pressing **ENTER** button, Use **DOWN** and **UP** button to select the SL 1 or SL 2(Slave Mode 1and 2). Back to the previous functions without any change press **MENU** button.

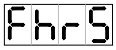
 LED

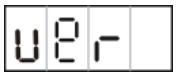
Press the **MENU** button up to when the  is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the (ON) or (OFF) mode. Once the mode has been selected, press **ENTER** button to setup or automatically return to the main functions without any change after 10 seconds. Back to the functions without any change press **MENU** button again.

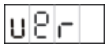
 Display Inverse

Press **MENU** button until  is blinking on the display. Pressing **ENTER** button. Once the mode has been selected, press **ENTER** button to setup or automatically return to the main functions without any change after 10 seconds. Back to the functions without any change press **MENU** button again.

 Fixture Hours

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

 Software version

Press the **MENU** button up to when the  is blinking on the display. Pressing **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.

4. How to control the fixture

Three ways to operation:

A. Master/Slave operation

B. Universal DMX controller

C. Easy controller CA-8

A. Master/Slave operation

The fixture will allow you to link the other 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 have to set in master mode, it's DMX input cable will have nothing connect it, and the other fixtures must be set in slave mode. Their DMX input cables connect the last fixture DMX output cable. Any fixture can set as a Master or as a Slave.

In Master/Slave mode refer to the DMX settings below:

Master unit: DMX start address MUST be set to 001. (First DIP switch = ON, all other are OFF)

Slave units: DMX start address may have any value but NOT 001 (example: set the first 3 DIP switches to ON)

*2-light show

Dipswitch 10 "off" means the unit works normally and "on" means inversion. In order to create a great light show, you can set dip switch 10 "on" on any unit that is linking to the master unit to get contrast movement to the master unit, even if you have two units only. Dipswitch 10 on the first (Master) unit is no use for the 2-light show as it is the master unit that operates the light show.

B. Universal DMX controller

When using a universal DMX controller to control the chain of units, you have to set DMX address by Dip switches from 1 to 9 to make sure all the units will receive its DMX signal. Please refer to the following diagram to know how to address your DMX 512 system in the binary code.

DMX address setting by dip-switches

1. Select the channels of DMX controller

2. Dipswitches

Dip-switches	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	#10
Value	1	2	4	8	16	32	64	128	256	2-light show

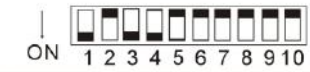
· Examples:

Channel 01：dip / on : # 1（=1）

Channel 05：dip / on : # 1, # 3（1+4=5）

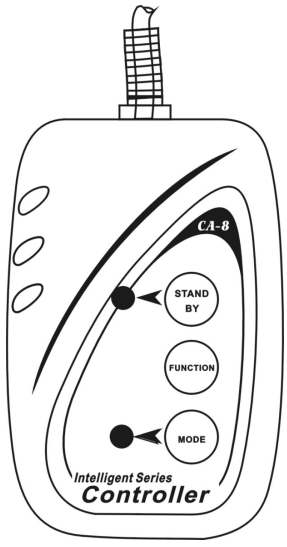
Channel 09：dip / on : # 1, # 4 （1+8=9）

Channel 13：dip / on : # 1, # 3, # 4（=13）

Channel	Dip switches setting
1	
5	
9	
13	

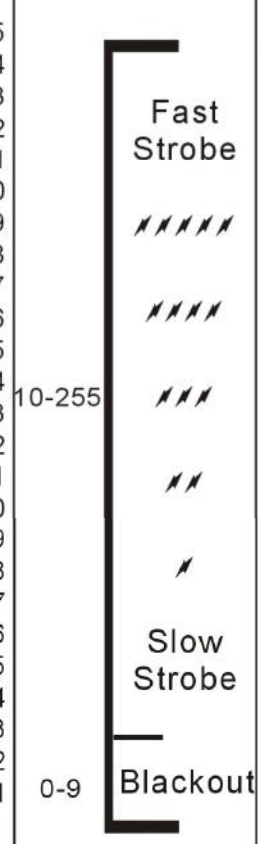
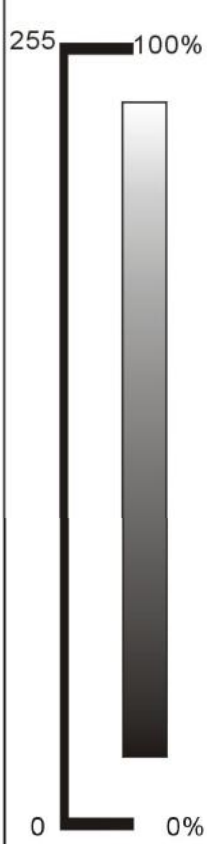
C. Easy Controller (by CA-8)

The easy remote control is used only in master/slave mode. There is a terminator for connect the easy controller inside the fixture. By connecting the cable into DMX IN waterproof cable entry gland to the CA-8 terminator of the first fixture, you will find that the remote control on the first fixture will control all the other fixtures for Stand by, Function and Mode functions.



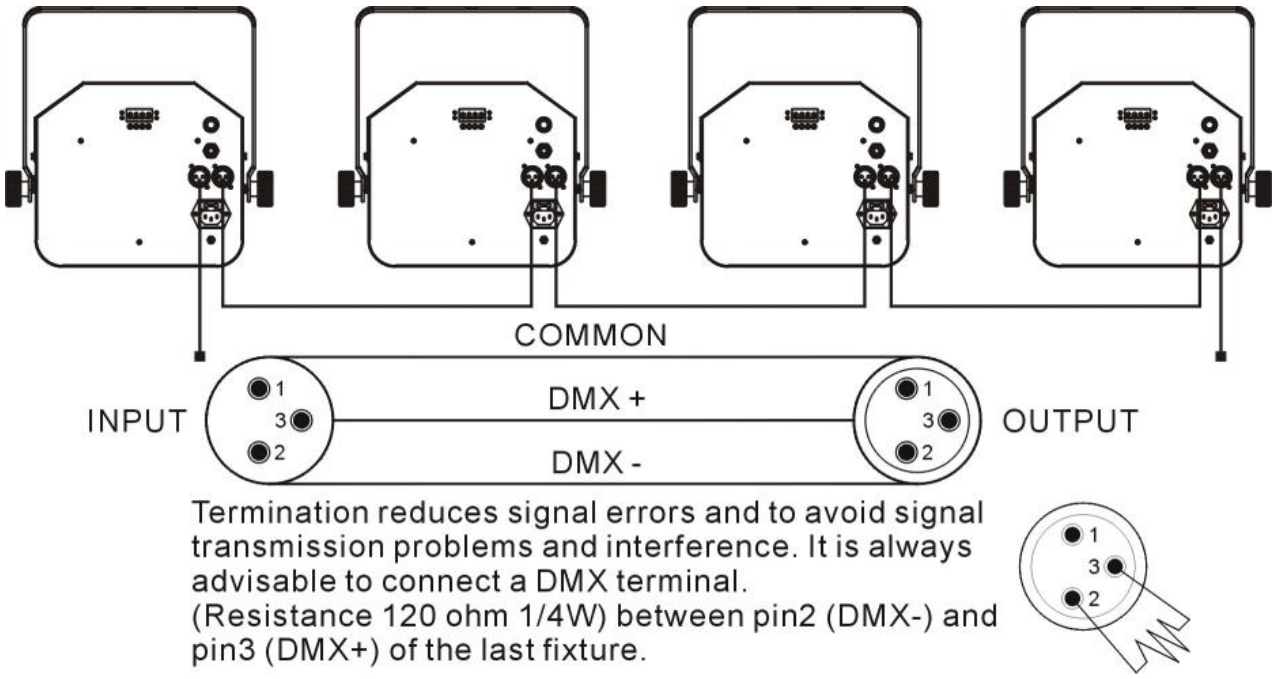
Blackout	Blackout the unit	
Function	1. Synchronous Strobe 2. Sound Strobe 3. Two light Strobe	Chase Select (Chase 1-10)
Mode	Sound/Strobe (LED OFF)	Chase (LED ON)

5. DMX512 Configuration

DMX512 Configuration					
Ch1	Ch2		Ch3		Ch4
Mode	Pattern	Chase	Pattern Strobe	Chase Speed	Dimmer
240-255 Stand-alone	250-255 Pattern 25 240-249 Pattern 24 230-239 Pattern 23 220-229 Pattern 22 210-219 Pattern 21 200-209 Pattern 20 190-199 Pattern 19 180-189 Pattern 18 170-179 Pattern 17 160-169 Pattern 16 150-159 Pattern 15 140-149 Pattern 14 130-139 Pattern 13 120-129 Pattern 12 110-119 Pattern 11 100-109 Pattern 10 090-099 Pattern 09 080-089 Pattern 08 070-079 Pattern 07 060-069 Pattern 06 050-059 Pattern 05 040-049 Pattern 04 030-039 Pattern 03 020-029 Pattern 02 010-019 Pattern 01 000-009 Blackout	250-255 Chase 25 240-249 Chase 24 230-239 Chase 23 220-229 Chase 22 210-219 Chase 21 200-209 Chase 20 190-199 Chase 19 180-189 Chase 18 170-179 Chase 17 160-169 Chase 16 150-159 Chase 15 140-149 Chase 14 130-139 Chase 13 120-129 Chase 12 110-119 Chase 11 100-109 Chase 10 090-099 Chase 09 080-089 Chase 08 070-079 Chase 07 060-069 Chase 06 050-059 Chase 05 040-049 Chase 04 030-039 Chase 03 020-029 Chase 02 010-019 Chase 01 000-009 Blackout			

6. DMX512 Connections

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 no power is connected to the fixture.
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 (+)

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 and the fan does not work

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.

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 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.

EC - 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.

EN55014-2: 1997 A1: 2001, EN61000-4-2: 1995; EN61000-4-3: 2002;

EN61000-4-4: 1995; EN61000-4-5: 1995, EN61000-4-6: 1996,

EN61000-4-11: 1994.

&

Harmonized Standard

EN60598-1: 2000+ALL: 2000+A12: 2002

Safety of household and similar electrical appliances

Part 1: General requirements

Innovation, Quality, Performance