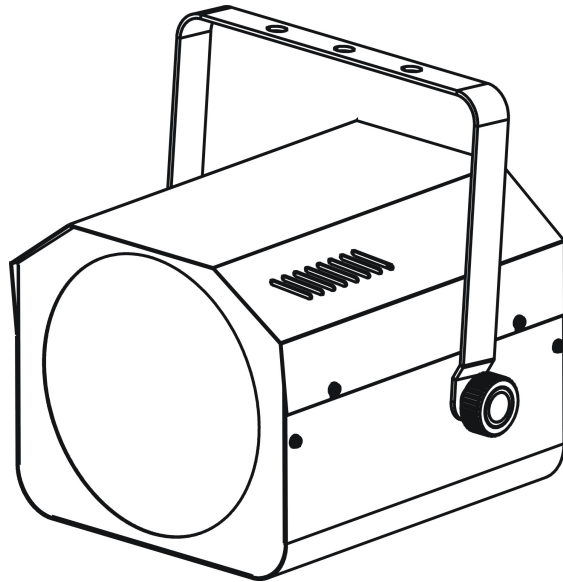


LED-737



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.

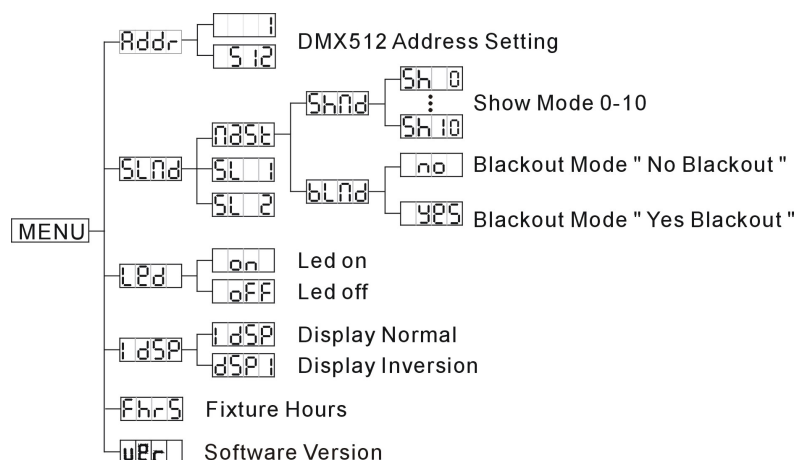
- Please keep this User Manual for future consultation. If you sell the fixture to another user, be sure that they also receive this instruction booklet.
- Unpack and check carefully there is no transportation damage before using the fixture.
- Before operating, ensure that the voltage and frequency 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 Ta : 40°C. 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 **SL10**. 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 **SL11** or **SL22**(Slave Mode 1and 2). Back to the previous functions without any change press **MENU** button.

LED LED

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

IdSP Display Inverse

Press **MENU** button until **IdSP** 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.

Fhrs Fixture Hours

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 again.

vEr Software version

Press the **MENU** button up to when the **vEr** 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




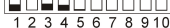
• Examples:

Channel 01 : dip / on : # 1 (=1)

Channel 05 : dip / on : # 1, # 3 (1+4=5)

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

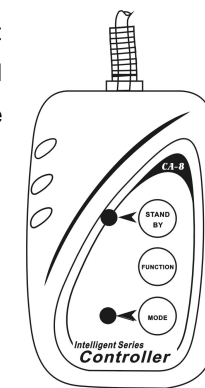
Channel 13 : dip / on : # 1, # 3, # 4 (=13)

Channel	Dip switches setting
1	ON 
5	ON 
9	ON 
13	ON 

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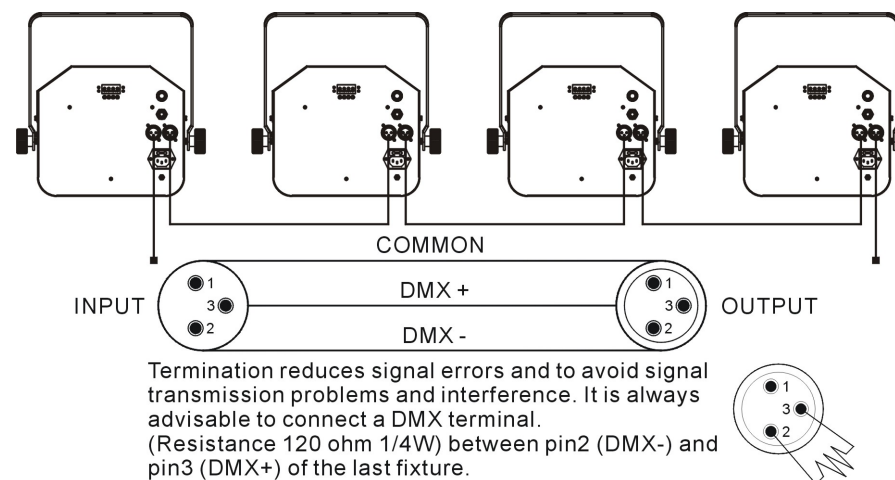
Function	1. Synchronous Strobe 2. Sound Strobe 3. Two light Strobe	Chase Select (Chase 1-10)
Mode	Sound/Strobe (LED OFF)	Chase (LED ON)

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	250-255	Chase 25			
	240-249	Pattern 24	240-249	Chase 24			
	230-239	Pattern 23	230-239	Chase 23			
	220-229	Pattern 22	220-229	Chase 22			
	210-219	Pattern 21	210-219	Chase 21			
	200-209	Pattern 20	200-209	Chase 20			
	190-199	Pattern 19	190-199	Chase 19			
	180-189	Pattern 18	180-189	Chase 18			
	170-179	Pattern 17	170-179	Chase 17			
	160-169	Pattern 16	160-169	Chase 16			
120-239 Chase	150-159	Pattern 15	150-159	Chase 15			
	140-149	Pattern 14	140-149	Chase 14			
	130-139	Pattern 13	130-139	Chase 13			
	120-129	Pattern 12	120-129	Chase 12			
	110-119	Pattern 11	110-119	Chase 11			
	100-109	Pattern 10	100-109	Chase 10			
	090-099	Pattern 09	090-099	Chase 09			
	080-089	Pattern 08	080-089	Chase 08			
	070-079	Pattern 07	070-079	Chase 07			
	060-069	Pattern 06	060-069	Chase 06			
0-119 Pattern	050-059	Pattern 05	050-059	Chase 05			
	040-049	Pattern 04	040-049	Chase 04			
	030-039	Pattern 03	030-039	Chase 03			
	020-029	Pattern 02	020-029	Chase 02			
	010-019	Pattern 01	010-019	Chase 01			
	000-009	Blackout	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