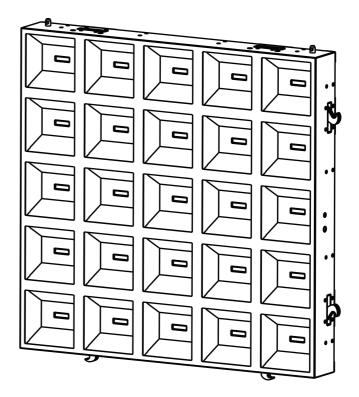
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EV-ST25



User Guide

Professional Entertainment Technology

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B. Not responding to DMX controller

- 1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
- 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.
- 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.
- 2. Check the LED for the response of the master/ slave mode signal.

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.

1. Safety Introductions



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

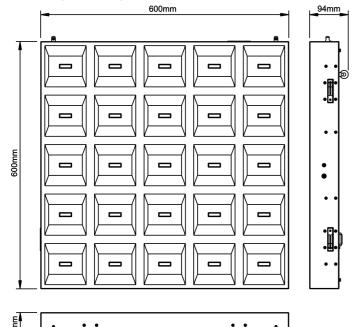
- Please keep this User Manual for future consultation. If you sell the fixture to another user, be sure that they also receive this instruction booklet.
- Unpack and check carefully there is no transportation damage before using the fixture.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Disconnect main power before servicing and maintenance.
- 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.
- Maximum ambient temperature is Ta: 40℃. Don't operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85°C. Don't touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- 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.
- 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.

If using a 230Vac 50Hz power supply, do not connect in series more than 8 units, use another mains supply for the next 8 units.

If using a 120Vac 60Hz power supply, do not connect in series more than 4 units, use another mains supply for next 4 units.

2. Technical Specifications

- DMX 1/4/9/25/29 channels switchable.
- Smooth 0~100% dimming and variable strobe speeds.
- Three operation modes: DMX, Mater/Slave mode, Sound Active.
- Ideal for discotheques, clubs, bars, parties, Mobile DJs, ect.
- Power Supply: 120~230V 50/60Hz
- Fuse: T 6.3A
- Power consumption: 150W
- LED: 25 x 5W CW LED
- Dimension: 600 x 600 x 94 mm
- Weight: 10. 5 kgs





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



- 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 (+),

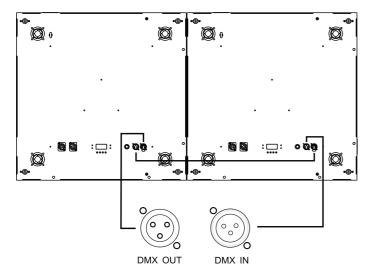
Pin4/5: not used

8. Troubleshooting

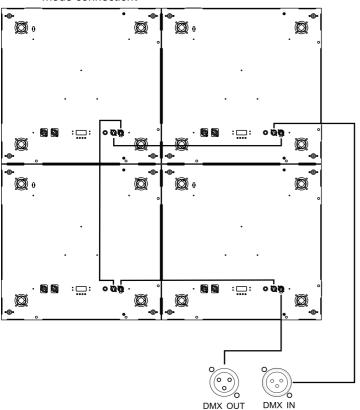
Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

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.



2-2 mode connection:



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, the range of mounting height is $0\sim30$ M.

3.1 Fixture Jointing

Firstly, plug L type Hexagon wrench into the hole back of the fixture to fasten and locate two fixtures so that movement won't happen and jointing become more conveniently;

Secondly, use L type Hexagon wrench to counter-clockwise rotate connection lock to the end until lock tongue returns back, for direction please see arrow ① showed in figure 1,and the next step, use Hexagon wrench clockwise rotate connection lock to the end, see arrow ②.

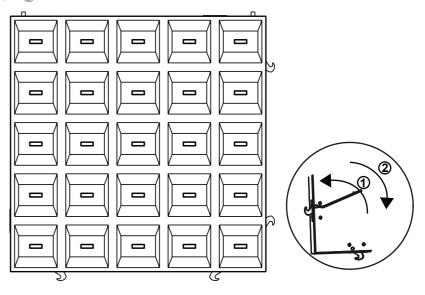
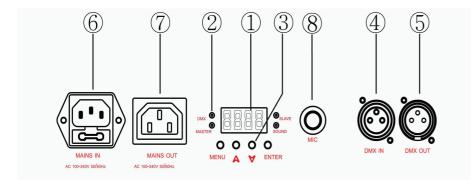


Figure 1

Finished fixture jointing is showed as follows:

4. How to set the unit

4.1 Rear Panel



1 Display: To show the various menus and the selected functions

②LED:

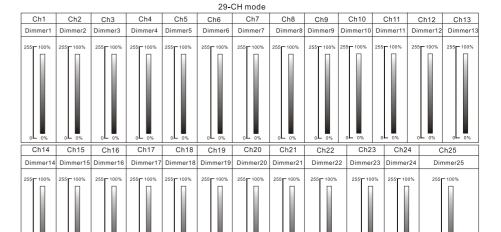
DMX	On	DMX input present
MASTER	On	Master Mode
SLAVE	On	Slave Mode
SOUND	Flashing	Sound activation

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

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



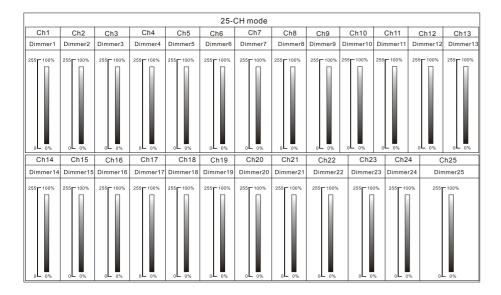
Ch26		Ch27		Ch28	Ch29
Mode	2-1(Line effect)	2-2(Number)	2-3(Letter)	Dimmer	Strobe
255- 248-255 Stand alone (trigger by sound 188-247 (see channel 2-3) - 128-187 (see channel 2-2) - 68-127 Effect (see Channel 2-1) 8-67 Full On 0-7 Blackout	248-255 Random line effect 240-247 effect30 slow to fast 232-239 effect28 slow to fast 224-231 effect28 slow to fast 224-231 effect28 slow to fast 208-215 effect27 slow to fast 208-215 effect28 slow to fast 208-216 effect28 slow to fast 192-199 effect24 slow to fast 192-199 effect24 slow to fast 176-183 effect22 slow to fast 184-191 effect23 slow to fast 182-159 effect19 slow to fast 182-159 effect19 slow to fast 182-132 effect18 slow to fast 182-121 effect18 slow to fast 182-132 effect18 slow to fast 182-132 effect14 slow to fast 182-132 effect19 slow to fast 182-132 effect19 slow to fast 182-132 effect03 slow to fast 182-132 effect04 slow to fast 182-132 e	236-255 To count forwards 9 down to 0 from slow to fast 216-235 To count forwards 0 up to 9 from slow to fast 196-215 Number-9 176-195 Number-8 156-175 Number-7 136-155 Number-6 116-135 Number-5 096-115 Number-4 076-095 Number-3 056-075 Number-2 036-055 Number-1 016-035 Number-0 000-015 No function	247-255 Letter-Z 238-246 Letter-Y 229-237 Letter-X 220-228 Letter-W 220-2210 Letter-U 193-201 Letter-U 193-201 Letter-U 193-201 Letter-S 175-183 Letter-R 157-183 Letter-R 157-165 Letter-P 148-156 Letter-D 139-147 Letter-N 121-129 Letter-L 112-120 Letter-L 112-120 Letter-L 112-120 Letter-M 03-113 Letter-M 076-084 Letter-G 058-093 Letter-H 076-084 Letter-G 058-093 Letter-B 049-057 Letter-D 040-048 Letter-C 031-039 Letter-B 022-030 Letter-B 000-021 No function	255 - 100%	255 Open 248-255 Open 240-247 Sound strobe 232-239 Open 190-231 Fast open slow close 182-189 Open 140-181 Slow open fast close 132-139 Open 8-131 Strobe slow to fast 0-7 Open

7. DMX512 Connections

mode connection:

Ch6		Ch7		Ch8	Ch9	
	Mode	2-1(Line effect)	2-2(Number)	2-3(Letter)	Dimmer (AII)	Strobe
255 248~255 188~247 128~187	Stand alone (trigger by sound) Letter A to Z (see channel 2-3) Number 1 to 9 (see channel 2-2)	248-255 Random line effect 240-247 effect 30 slow to fast 232-239 effect 29 slow to fast 224-231 effect 28 slow to fast 216-223 effect 27 slow to fast 208-215 effect 27 slow to fast 200-207 effect 25 slow to fast 192-199 effect 24 slow to fast 176-183 effect 25 slow to fast 176-183 effect 25 slow to fast	236-255 To count forwards 9 down to 0 from slow to fast 216-235 To count forwards 0 up to 9 from slow to fast 196-215 Number-9 176-195 Number-8	247-255 Letter-Z 238-246 Letter-Y 229-237 Letter-X 220-228 Letter-W 211-219 Letter-V 202-210 Letter-U 193-201 Letter-T 184-192 Letter-S 175-183 Letter-R 166-174 Letter-Q 157-165 Letter-P	255 —100%	255 Open 248-255 Open 240-247 Sound strobe 232-239 Open 190-231 Fast open slow close 182-189 Open
068~127	Effect (see Channel 2-1)	160-167 effect20 slow to fast 152-159 effect19 slow to fast 144-151 effect18 slow to fast	156-175 Number-7 136-155 Number-6	148-156 Letter-O 139-147 Letter-N 130-138 Letter-M		140~181 Slow open fast close 132-139 Open
045~067	Dimmer All Dimmer Ch1 Control LED1.6.	136-143 effect17 slow to fast 128-135 effect16 slow to fast 120-127 effect15 slow to fast 112-119 effect14 slow to fast	116-135 Number-5 096-115 Number-4	121-129 Letter-L 112-120 Letter-K 103-111 Letter-J 094-102 Letter-I	Ш	8~131 Strobe slow to fast
022~044	11. 16.21 Ch2 Control LED2.7. 12. 17. 22 Ch3 Control LED3.8.	104-111 effect13 slow to fast 096-103 effect12 slow to fast 088-095 effect11 slow to fast 080-087 effect10 slow to fast	076-095 Number-3 056-075 Number-2	085-093 Letter-H 076-084 Letter-G 067-075 Letter-F 058-066 Letter-E		0~7 0 Open
	13.18.23 Ch4 Control LED4.9. 14.19.24 Ch5 Control LED5.10. 15.20.25	072-079 effect09 slow to fast 064-071 effect08 slow to fast 056-063 effect07 slow to fast 048-055 effect06 slow to fast	036-055 Number-1 016-035 Number-0	049-057 Letter-D 040-048 Letter-C 031-039 Letter-B 022-030 Letter-A	0 0%	
000~021	Dimmer Ch1 Control LED1-5 Ch2 Control LED6-10 Ch3 Control LED11-15 Ch4 Control LED11-15 Ch5 Control LED21-25	040-047 effect05 slow to fast 032-039 effect04 slow to fast 024-031 effect03 slow to fast 016-023 effect02 slow to fast 008-015 effect01 slow to fast 000-007 no function	000-015 No function	000-021 No function		

25-CH mode:



29-CH mode:

(6) Mains input: Connect to supply mains power.

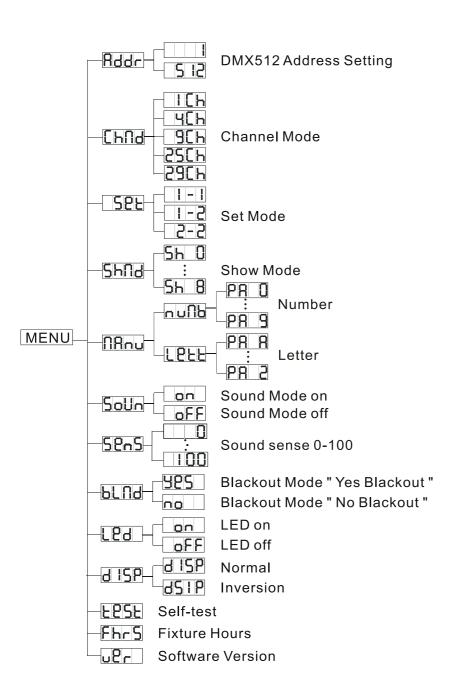
7 Mains output: Connect to supply mains power for the next unit.

(8) Microphone: Receive music for the sound active.

4.2 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 30 seconds. Back to the functions without any change press **MENU** button. The main functions are shown below:

-13-







4-CH mode:

Ch1		Ch2		Ch3	Ch4
Mode	2-1(Line effect) 2-2(Number) 2-3(Let		2-3(Letter)) Dimmer	Strobe
255 Stand alone (trigger by sound) ————————————————————————————————————	248-256 Random line effect 240-247 effect 30 slow to fast 232-239 effect 29 slow to fast 232-239 effect 29 slow to fast 216-223 effect 28 slow to fast 216-223 effect 28 slow to fast 216-223 effect 27 slow to fast 192-199 effect 27 slow to fast 192-199 effect 24 slow to fast 192-199 effect 24 slow to fast 176-193 effect 23 slow to fast 176-193 effect 23 slow to fast 176-193 effect 23 slow to fast 176-193 effect 29 slow to fast 152-199 effect 19 slow to fast 152-199 effect 19 slow to fast 152-199 effect 19 slow to fast 136-143 effect 11 slow to fast 136-143 effect 11 slow to fast 120-127 effect 15 slow to fast 120-127 effect 15 slow to fast 120-129 effect 15 slow to fast 120-129 effect 15 slow to fast 108-103 effect 10 slow to fast 072-079 effect 09 slow to fast 072-079 effect 09 slow to fast 072-079 effect 09 slow to fast 074-079 effect 00 slow to fast 074-	236-255 To count forwards 0 up to 9 from slow to fast 216-235 To count forwards 0 up to 9 from slow to fast 196-215 Number-9 176-195 Number-8 156-175 Number-7 136-155 Number-6 116-135 Number-6 116-135 Number-4 076-095 Number-3 056-075 Number-2 036-055 Number-2 036-055 Number-1 016-035 Number-1 000-015 Number-0	247-255 Letter-Z 238-246 Letter-Y 238-246 Letter-W 220-237 Letter-W 220-228 Letter-W 211-219 Letter-V 213-201 Letter-V 213-201 Letter-V 213-201 Letter-S 175-183 Letter-R 157-165 Letter-F 158-175 Letter-F 159-175 Letter-F 102-120 Letter-F 102-120 Letter-F 103-135 Letter-F 104-175 Letter-F 105-105 Letter-F 106-105 Letter-F 107-105 Letter-F 107-10	255 100%	255 Den 248-255 Den 240-247 Sound strobe 232-239 Den 190-231 Fast open slow close 182-189 Den 140-181 Slow open fast close 132-139 Den 8-131 Strobe slow to fast 0-7 Open

9-CH mode:

No need to turn the unit off when you change the DMX address, as new DMX address	Press the MENU button up to when the Bddr is shown on the display. Pressing the			
setting will be affected at once. Each time you turn the unit on, it will show "ILLI" on the display. After that the unit will be ready to receive DMX signal or run the built in programs.	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			
5.1 Master/Slave Built In Preprogrammed Function	automatically exit menu mode without any change after 60 seconds. Back to the previous			
By linking the units in master/slave connection, the first unit will control the other units to	functions without any change press the MENU button.			
give an automatic, sound activated, synchronized light show. This function is good when you				
want an instant show. You have to set the first unit in master mode and select Show (random show), Show 1) oror Show 8). Its DMX input jack will have	Channel Mode			
nothing plugged into it, and Its master LED will be constantly on and sound LED will flash to	Press the MENU button up to when the LHIO is shown on the display. Pressing the			
the music.	ENTER button, Use the DOWN and UP button to select the LICH (1 channel) or LYCH (4 channels) or LYCH (9 Channels) or LYCH (25 channels) or LYCH (29 Channels)			
5.2 DMX Controller	Channels) mode. Once selected, press the ENTER button to setup or automatically exit			
Using universal DMX controller to control the units, you have to set DMX address from 1 to	menu mode without any change after 60 seconds. To go back to the functions without any			
512 channel so that the units can receive DMX signal.	change press the MENU button			
Press the MENU button up to when the Rddr is showing on the display. Pressing ENTER				
button and the display will blink. Use DOWN and UP button to change the DMX512 address.	Slave Mode			
Once the address has been selected, press and keep ENTER button pressed up to when	Press the MENU button up to when the SLOD is shown on the display. Pressing the			
the display stops blinking or storing automatically 8 seconds later. To go back to the	ENTER button, Use the DOWN and UP button to select the SL I (slave 1) or SL 2			
functions without any change press the MENU button again. If you use please refer to the	(Slave 2) mode. Once selected, press the ENTER button to setup or automatically exit menu			
following diagram to address your DMX512 channel for the first 4 /2 units.	mode without any change after 60 seconds. To go back to the functions without any change			
1 channels mode:	press the MENU button.			
4 channels mode: 5 9 13	SQLSet Mode			
9 channels mode:	Press the MENU button up to when the SSE is shown on the display. Pressing the			
25 channels mode: 25 Si Si Si	ENTER button, Use the DOWN and UP button to select the or or			
29 channels mode:	mode. Once selected, press the ENTER button to setup or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any			

6. DMX512 Configuration

1-CH mode:

Press the **MENU** button up to when the 5hnd is shown on the display. Pressing the

change press the **MENU** button.

Show Mode

ENTER button, Use the DOWN and UP button to select the Ship (Random show) or (show 1) or Ship (Show 2) or or Ship (show8). Once selected, press the ENTER button to store or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change press the MENU button	ENTER button and the display will blink. Use the DOWN and UP button to select (display on) or OFF (display off) mode. Once selected, press the ENTER button to setup or exit menu mode without any change after 60 seconds. Back to the functions without any change press the MENU button again.
Press the MENU button up to when the Press the MENU button up to when the Press the MENU button up to when the Pressing the ENTER button, Use the DOWN and UP button to select the Pressing the ENTER button, Use the DOWN and UP button to select the Pressing the ENTER button, Use the DOWN and UP button to store. If you select Pressing the ENTER button, Use the DOWN and UP button to select the Pressing the ENTER button, Use the DOWN and UP button to select the Pressing the ENTER button, Use the DOWN and UP button to select the Pressing the ENTER button, Use the DOWN and UP button to select the Pressing the ENTER button, Use the DOWN and UP button to select the Pressing the ENTER button to setup or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change press the MENU button	Press the MENU button until is blinking on the display. Press the ENTER button to select (normal) or (inverse). Back to the functions without any change press the MENU button. Self-Test Press the MENU button up to when the Less is blinking on the display. Pressing ENTER button and the unit will run the built-in programmer for self-test. To go back to the functions press the MENU button.
Press the MENU button up to when the Sound is shown on the display. Pressing the ENTER button, Use the DOWN and UP button to select the (sound on) or (sound off). Once selected, press the ENTER button to setup or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change press the MENU button.	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.
Press the MENU button up to when the Lind is shown on the display. Pressing the ENTER button, Use the DOWN and UP button to select the USS (blackout) or (normal). Once selected, press the ENTER button to setup or automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change press the MENU button. LED display	Press the MENU button up to when the UP 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. 5. How To Control The Unit You can operate the unit in three ways: 1. By master/slave built-in preprogram function 2. By easy controller
Press the MENU button up to when the LPD is shown on the display. Pressing the	3. By DMX controller