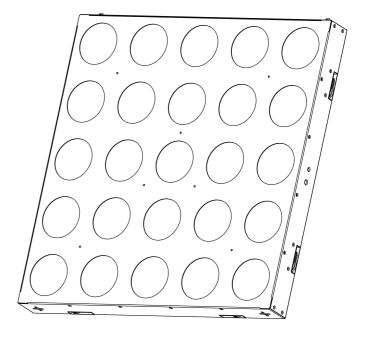
EV LIGHT®

EV-MTX25



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.
- 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

- 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.

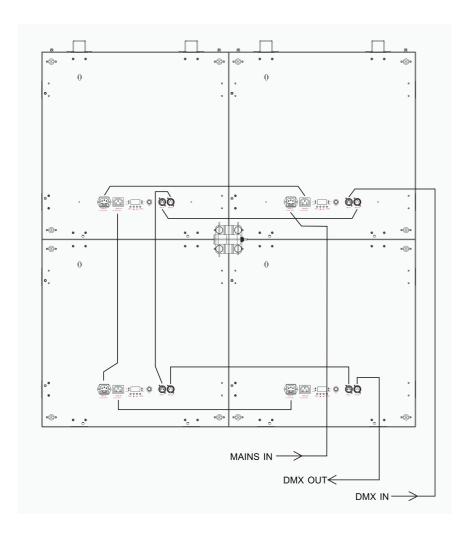
E. One of the channels is not working well

- 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.



8. Troubleshooting

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

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A. The fixture does not work, no light

- Check the connection of power and main fuse.
- 2. Measure the mains voltage on the main connector.

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°C. 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.

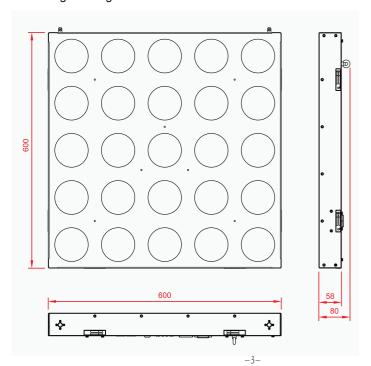
-2-

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: 100W
- LED: 25 x 3W WW LED
- Dimension: 600 x 600 x 146 mm
- Weight: 10 kgs



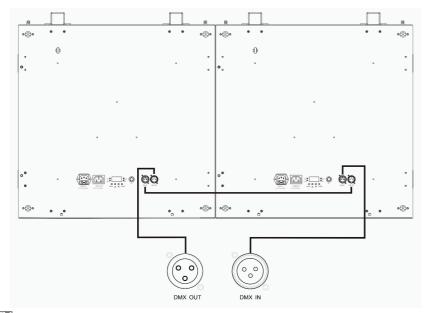


Termination reduces signal errorsand to avoid signal transmission problems and interference. It is always advisable to connect a DXM terminal. (Resistance 120 ohm 1/4W)between pin2(DXM-)and pin3(DXM+) of the last fixture.

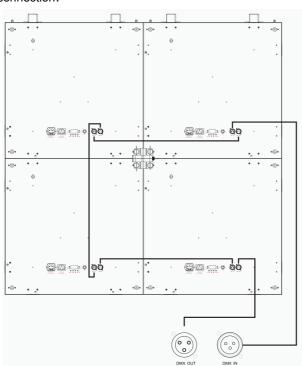


- Connect the fixture together in a "daisy chain" by XLR plug cable from the output of the
 fixture to the input of the next fixture. The cable cannot be branched or split to a "Y"
 cable. Inadequate or damaged cables, soldered joints or corroded connectors can
 easily distort the signal and shut down 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



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.

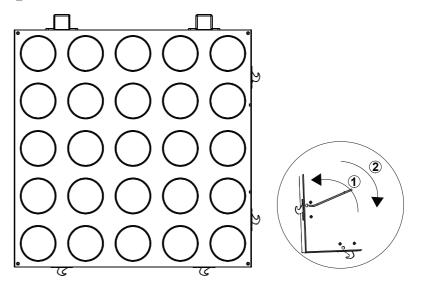


Figure 1

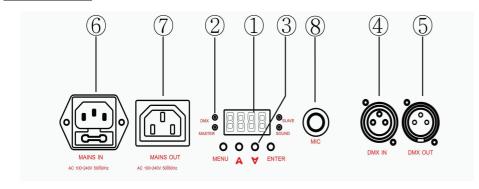
Finished fixture jointing is showed as follows:



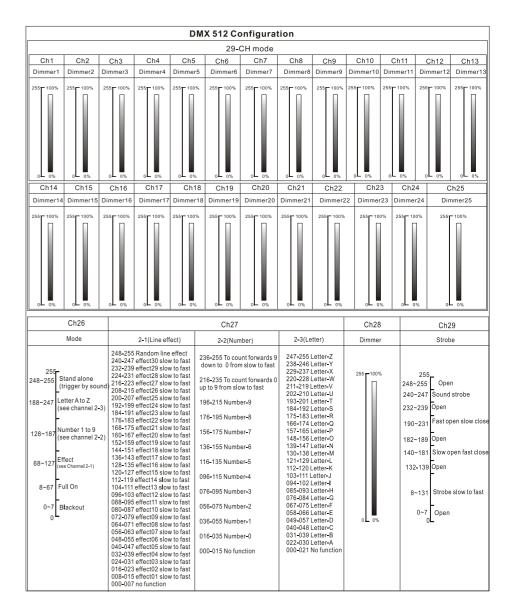
Quick lock1,For within four pcs, splicing in this way; Quick lock2,For more than four pcs (including four), must install the locks in this way for splicing and fixing;

4. How to set the unit

4.1 Rear Panel



(1) **Display:** To show the various menus and the selected functions

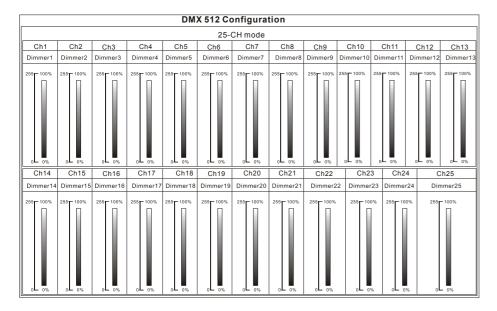


7. DMX512 Connections

mode connection:

Ch6		Ch7			Ch8	Ch9
Mode		2-1(Line effect)	2-2(Number)	2-3(Letter)	Dimmer (A II)	Strobe
255 248~255 188~247	Stand alone (trigger by sound) Letter A to Z	248-255 Random line effect 240-247 effect30 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 26 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	247-255 Letter-Z 238-246 Letter-Y 229-237 Letter-X 220-228 Letter-W 211-219 Letter-V	255 -100%	255 248-255 Open 240-247 Sound strobe 232-239 Open
188~247	(see channel 2-3)	200-207 effect25 slow to fast 192-199 effect24 slow to fast 184-191 effect23 slow to fast	196-215 Number-9	202-210 Letter-U 193-201 Letter-T 184-192 Letter-S		190~231 Fast open slow close
128~187	Number 1 to 9 (see channel 2-2)	176-183 effect22 slow to fast 168-175 effect21 slow to fast 160-167 effect20 slow to fast	176-195 Number-8 156-175 Number-7	175-183 Letter-R 166-174 Letter-Q 157-165 Letter-P		182~189 Open 140~181 Slow open fast close
068~127	Effect (see Channel 2-1)	152-159 effect19 slow to fast 144-151 effect18 slow to fast	136-155 Number-6	148-156 Letter-O 139-147 Letter-N 130-138 Letter-M		132-139 Open
045~067	Dimmer All Dimmer	136-143 effect17 slow to fast 128-135 effect16 slow to fast 120-127 effect15 slow to fast	116-135 Number-5 096-115 Number-4	121-129 Letter-L 112-120 Letter-K 103-111 Letter-J		8~131 Strobe slow to fast
	Ch1 Control LED1.6. 11.16.21 Ch2 Control LED2.7.	112-119 effect14 slow to fast 104-111 effect13 slow to fast 096-103 effect12 slow to fast 088-095 effect11 slow to fast	076-095 Number-3	094-102 Letter-I 085-093 Letter-H 076-084 Letter-G		0~7 Open
022~044	12.17.22 Ch3 Control LED3.8 13.18.23	080-087 effect10 slow to fast 072-079 effect09 slow to fast	056-075 Number-2	067-075 Letter-F 058-066 Letter-E 049-057 Letter-D) L
	Ch4 Control LED4.9. 14.19.24 Ch5 Control LED5.10.	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	040-048 Letter-C 031-039 Letter-B	0 ┗ 0%	
000~021	15,20,25 Dimmer Ch1 Control LED1-5 Ch2 Control LED6-10 Ch3 Control LED11-15 Ch4 Control LED16-20 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	022-030 Letter-A 000-021 No function		

25-CH mode:



29-CH mode:

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.

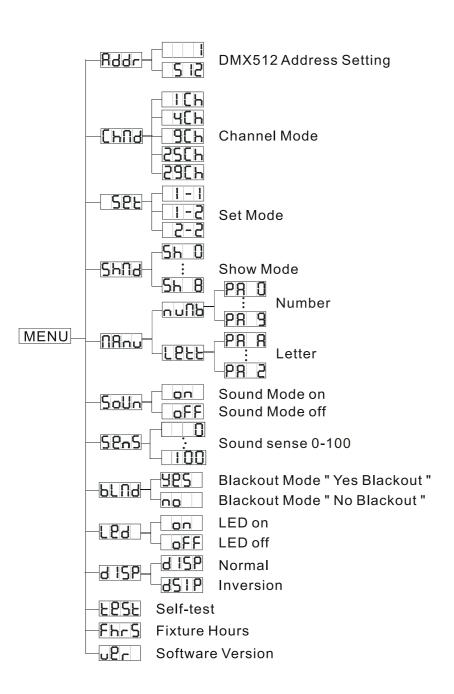
(6) Mains input: Connect to supply mains power.

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:





1-CH mode

Ch1

Shows

248-255 Stand alone
218-247 Show 8

188-217 Show 7

158-187 Show 6

128-157 Show 5

098-127 Show 4

068-097 Show 3

038-067 Show 2

008-037 Show 1

000-007 Blackout

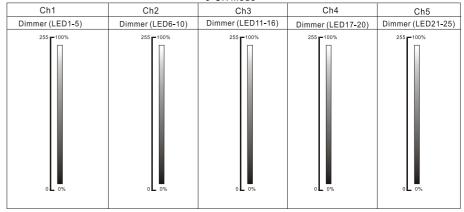
4-CH mode:

DMX 512 Configuration

Ch1	Ch2			Ch3	Ch4
Mode	2-1(Line effect) 2-2(Number)		2-3(Letter) Dimmer		Strobe
255 Stand alone (trigger by sound) 188–247 Letter A to Z (see channel 2-3) 128–187 Number 1 to 9 (see channel 2-2)	248.255 Random line effect 240-248-255 Random line effect 240-247 effect 29 slow to fast 232-230 effect 29 slow to fast 216-223 effect 29 slow to fast 216-223 effect 27 slow to fast 216-223 effect 27 slow to fast 200-207 effect 25 slow to fast 200-207 effect 25 slow to fast 200-207 effect 25 slow to fast 120-120 effect 25 slow to fast 1476-183 effect 22 slow to fast 176-183 effect 22 slow to fast 160-167 effect 25 slow to fast 144-151 effect 15 slow to fast 144-151 effect 15 slow to fast 144-151 effect 15 slow to fast 120-127 effect 15 slow to fast 104-111 effect 15 slow to fast 104-111 effect 15 slow to fast 104-111 effect 15 slow to fast 088-095 effect 11 slow to fast 088-095 effect 11 slow to fast 088-095 effect 11 slow to fast 048-055 effect 05 slow to fast 040-047 effect 05 slow to fast 040	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 198-215 Number-9 178-195 Number-8 156-175 Number-7 138-155 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 220-228 Letter-W 230-2270 Letter-U 230-2270 Letter-U 230-2270 Letter-U 230-2270 Letter-U 230-2270 Letter-U 230-2370 Letter-U	255 100%	255 Poen 248-255 Open 240-247 Sound strobe 232-239 Open 190-231 Fast open slow clos 182-189 Open 140-181 Slow open fast clos 132-139 Open 8-131 Strobe slow to fast 0-7 Open

9-CH mode:

9-CH mode



No need to turn the unit off when you change the DMX address, as new DMX address
setting will be affected at once. Each time you turn the unit on, it will show "It is not the display. After that the unit will be ready to receive DMX signal or run the built in programs.
5.1 Master/Slave Built In Preprogrammed Function
By linking the units in master/slave connection, the first unit will control the other units to
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
Sh O(random show), Sh I (show 1) oror Sh B (show 8). Its DMX input jack will

5.2 DMX Controller

flash to the music.

Using universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

have nothing plugged into it, and Its master LED will be constantly on and sound LED will

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 8 seconds later. To go back to the 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 /2 units.

1 channels mode:		ļ
4 channels mode:)
9 channels mode:	35 81 01 11 12	3
25 channels mode:		<u>-</u>
29 channels mode:	30 59 88	}

6. DMX512 Configuration

1-CH mode:

Press the MENU button up to when the Podor is shown on the display. Pressing the 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 automatically exit menu mode without any change after 60 seconds. Back to the previous functions without any change press the MENU button.
Channel Mode Press the MENU button up to when the First is shown on the display. Pressing the ENTER button, Use the DOWN and UP button to select the First (1 channel) or First (4 channels) or First (25 channels) or First (25 channels) or First (29 Channels) 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 change press the MENU button
Press the MENU button up to when the SLID is shown on the display. Pressing the ENTER button, Use the DOWN and UP button to select the SLID (slave 1) or SLID (Slave 2) 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 change press the MENU button.
Press the MENU button up to when the SCE is shown on the display. Pressing the ENTER button, Use the DOWN and UP button to select the or or 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 change press the MENU button.
Show Mode Press the MENU button up to when the Shod is shown on the display. Pressing the

ENTER button, Use the DOWN and UP button to select the Shall (Random show) or (show 1) or Shall (Show 2) or or Shall (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 UP button, Use the DOWN and UP button to select the UP oror UP and UP, Once selected, press the ENTER button to store. If you select UP and UP, Pressing the ENTER button, Use the DOWN and UP button to select the UP oror UP and UP, Once selected, press the ENTER button to select the UP oror UP and UP button to select the UP and UP and UP button to select the UP and UP and UP button to select the UP and UP and UP button to select the UP and	Press the MENU button until disp is blinking on the display. Press the ENTER button to select disp (normal) or disp (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 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.	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.
Blackout mode Press the MENU button up to when the build is shown on the display. Pressing the ENTER button, Use the DOWN and UP button to select the button (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.	Press the MENU button up to when the permitted 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:
LED display Press the MENU button up to when the Led is shown on the display. Pressing the	 By master/slave built-in preprogram function By easy controller By DMX controller