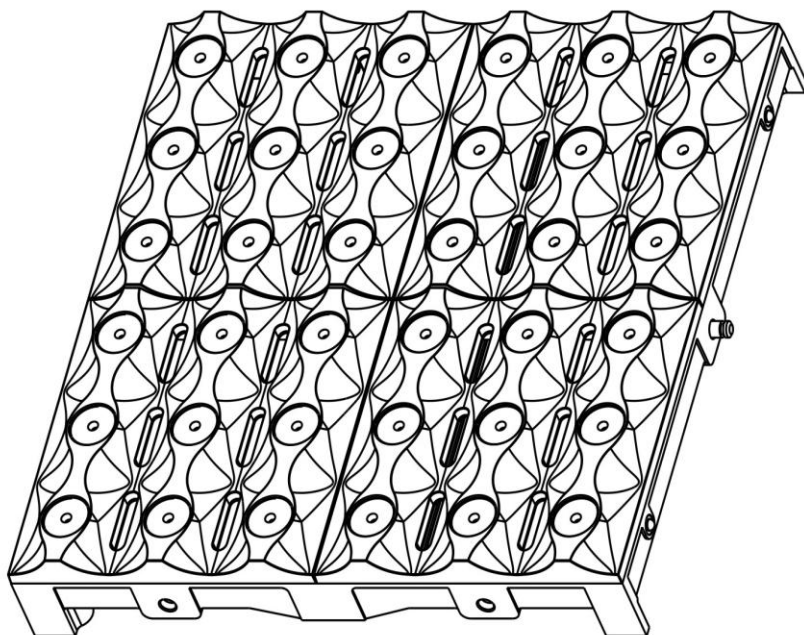


HaloBeam PIX



User Manual

Please read the instructions carefully

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1. Safety Introductions



WARNING

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

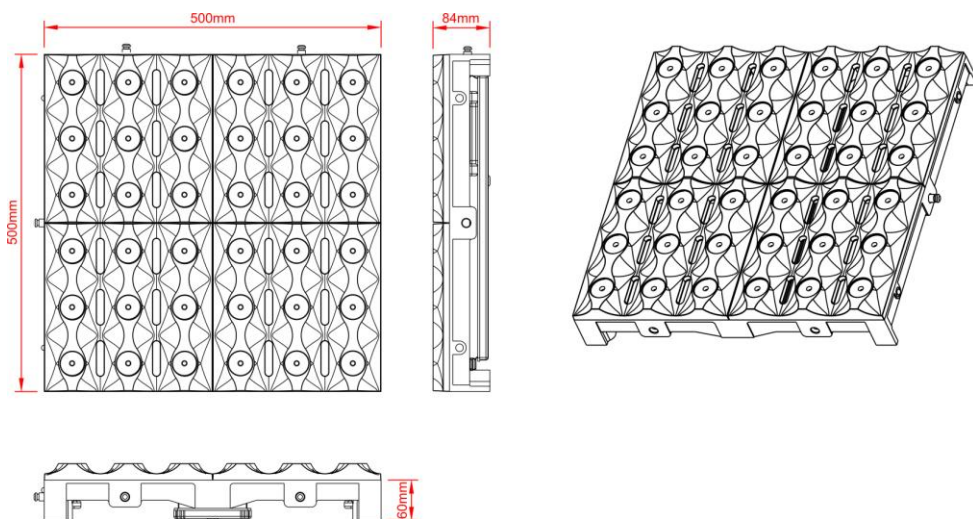
- ☐ Please keep this User Manual for future consultation. If you sell the fixture to another user, be sure that they also receive this instruction booklet.
- ☐ Unpack and check carefully there is no transportation damage before using the fixture.
- ☐ It's important to ground the yellow/green conductor 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 $T_a : 40^{\circ}\text{C}$. 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.

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 4/7/13/48/43 channels switchable.
- Smooth 0~100% dimming and variable strobe speeds.
- Three operation modes: DMX, Master/Slave mode, Sound Active.
- Ideal for discotheques, clubs, bars, parties, Mobile DJs, ect.
- Power Supply: 120~240V 50/60Hz
- Fuse: T 6.3A
- Power consumption: 190W
- LED: **CREE** ,36PCS , 3W ,(2700 – 3000 K)warm white 144PCS 0.5W SMD RGB LED
- Dimension: 500 x 500 x 84 mm
- Weight: 8.5 kgs



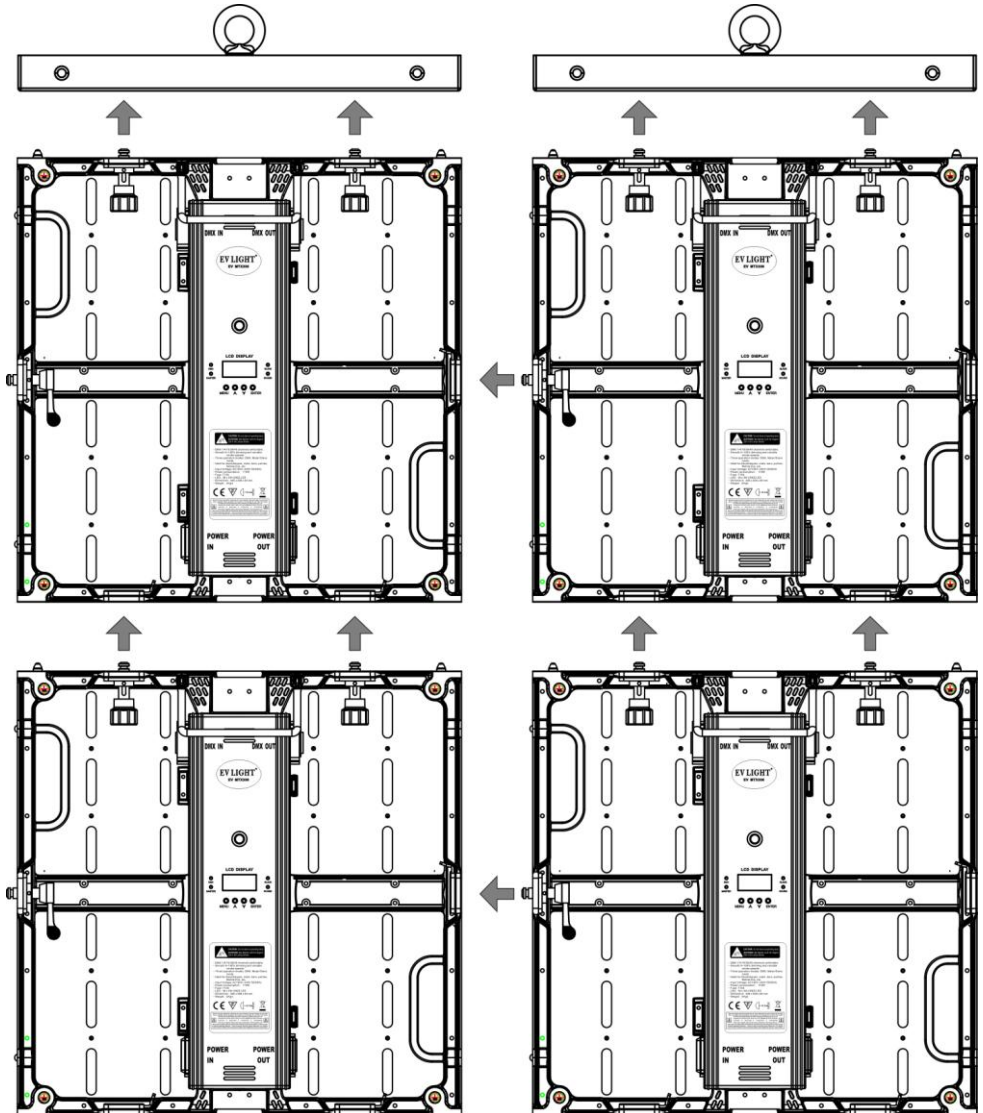
3. Installation

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 0~30 M.

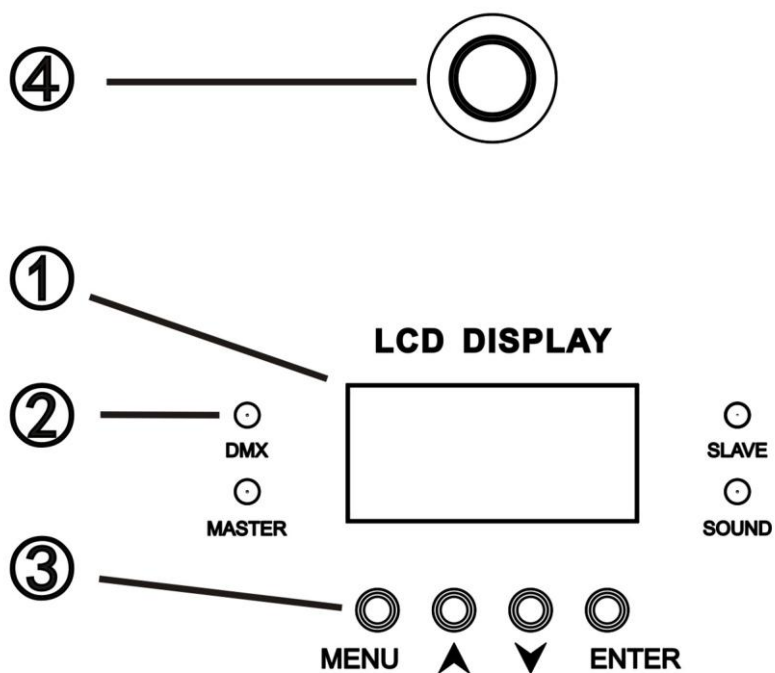
3.1 Fixture Jointing

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

② **LED:**

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.

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

DMX Address	1-512	
Channel Mode	4 CH 7 CH 13 CH 48 CH 43 CH	
Show Mode	Show0~Show8	
Show Mode-c	Show0~Show4	
Manual Mode	Number 0 - 9 Letter A - Z	
Sound State	Sound mode On - Off	
Sound Sense	Sound sense 0-100%	
Blackout out	Yes No	
Blackout out-c	Yes No	
Back Light	On – Off	
Auto Test		
Load Defaults	YES -- NO	
Fixture Time	Fixture hours 0 ~ 9999	
Fixture Version	Fixture V1.0	

DMX Address

Select **DMX Address**, press the **ENTER** button to confirm, the present address will blink on the display. Use the **UP** and **DOWN** button to adjust the address from **1** to **512**. Once the address has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Channel Mode

Select **Channel Mode**, press the **ENTER** button to confirm, present mode will blink on the display. Use the **DOWN** and **UP** button to select the **4 chan** or **7 chan** or **13 chan** or **48 chan** or **43 chan** mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button

about one second or wait for one minute to exit the menu mode.

Install Mode

Select **Install Mode**, press the **ENTER** button to confirm, present mode will blink on the display. Use the **DOWN** and **UP** button to select the **1 * 1** or **1 * 2** or **2 * 2** mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Show Mode

Select **Show Mode**, press the **ENTER** button to confirm, present mode will blink on the display. Use the **DOWN** and **UP** button to select the **Show 0** or **Show 1 ... Show 8** mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Manual Mode

Select **Manual Mode**, press the **ENTER** button to confirm, present mode will blink on the display. Use the **DOWN** and **UP** button to select the **number** or **letter**. Once selected **number**, Use the **DOWN** and **UP** button to select the **0** or...or **9**, If you select **letter**, Use the **DOWN** and **UP** button to select the **A** or...or **Z**, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Sound State

Select **Sound State**, press the **ENTER** button to confirm, present mode will blink on the display. Use the **DOWN** and **UP** button to select the **On** (sound on) or **Off** (sound off) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Sound Sense

Select **Sound Sense**, press the **ENTER** button to confirm, present mode will blink on the display. Use the **DOWN** and **UP** button to change the sound sense from **0 ...100**. Once the mode has been

selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Black Out

Select **Slave Mode**, press the **ENTER** button to confirm, present mode will blink on the display. Use the **DOWN** and **UP** button to select the **Yes** (yes blackout) or **No** (no blackout) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Back Light

Select **Back Light**, press the **ENTER** button to confirm, present mode will blink on the display. Use the **DOWN** and **UP** button to select the **On** (Led on) or **Off** (Led off) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute

Auto-Test

Press the **MENU** button up to when the **Auto-Test** is blinking on the display. Pressing **ENTER** button and the unit will run self-test by built-in program. To go back to the functions press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Load Defaults

Press the **MENU** button to show **Load Defaults** on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **Yes** (run built-in program to set the fixture to Defaults settings) or **No**. Press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Fixture Time

Press the **MENU** button up to when the **Fixture Time** 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. Hold and press the **MENU** button about one second or

wait for one minute to exit the menu mode.

Firmware Version

Press the **MENU** button up to when the **Firmware version** 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. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

5. How To Control The Unit

You can operate the unit in three ways:

1. By master/slave built-in preprogram function
2. By DMX controller

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 "**M336**" on 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 **show 0** (random show), **show 1** or ...or **show 8**. Its DMX input jack will have nothing plugged into it, and Its master LED will be constantly on and sound LED will flash to the music.

5.2 DMX Controller

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.

Press the **MENU** button up to when the **DMX Address** 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.

Channel Mode	Unit 1	Unit 2	Unit 3	Unit 4
4 channels	1	5	9	13
7 channels	1	8	15	22
13 channels	1	14	27	40
48 channels	1	49	97	145
43 channels	1	44	87	130

6. DMX512 Configuration

4-CH mode:

通道				
CH1	Warm white	000-007	Blackout	
		008-255	Show1-Show8	
CH2	Red	000-255	0%-100%	
CH3	Green	000-255	0%-100%	
CH4	Blue	000-255	0%-100%	

7-CH mode:

通道				
CH1	Mode	000-007	Blackout	
		008-067	Full On	
		068-127	Effect(see Channel2-1)	
		128-187	Number1 to 9(see Channel2-2)	
		188-247	Letter A to Z(see channel2-3)	
		248-255	Stand alone(trigger by sound)	
CH2	2-1(line effect)	000-007	No function	
		008-247	Effect01- Effect30	
		248-255	Random line effect	
	2-2(Number)	001-015	No function	
		016-215	Number0-Number9	
		216-255	To count forwards 0 up to 9 from slow to fast	
	2-3(letter)	000-021	No function	

		022-255	Letter A- Letter Z	
CH3	Dimmer	000-255	0%-100%	
CH4	Strobe	000-255	0%-100%	
CH5	Red	000-255	0%-100%	
CH6	Green	000-255	0%-100%	
CH7	Blue	000-255	0%-100%	

通道				
CH1	Warm white(LED1-6)	000-255	0%-100%	
CH2	Warm white(LED7-12)	000-255	0%-100%	
CH3	Warm white(LED13-18)	000-255	0%-100%	
CH4	Warm white(LED19-24)	000-255	0%-100%	
CH5	Warm white(LED25-30)	000-255	0%-100%	
CH6	Warm white(LED31-36)	000-255	0%-100%	
CH7	Mode			
CH8	2-1(line effect)	000-007	No function	
		008-247	Effect01- effect30	
		248-255	Random line effect	
	2-2(Number)	001-015	No function	
		016-215	Number0-Number9	
		216-255	To count forwards 0 up to 9 from slow to fast	
	2-3(letter)	000-021	No function	
		022-255	Letter A- Letter	

CH9	Dimmer	000-255	0%-100%	
CH10	Strobe	000-255	0%-100%	
CH11	Red	000-255	0%-100%	
CH12	Green	000-255	0%-100%	
CH13	Blue	000-255	0%-100%	

48-CH mode:

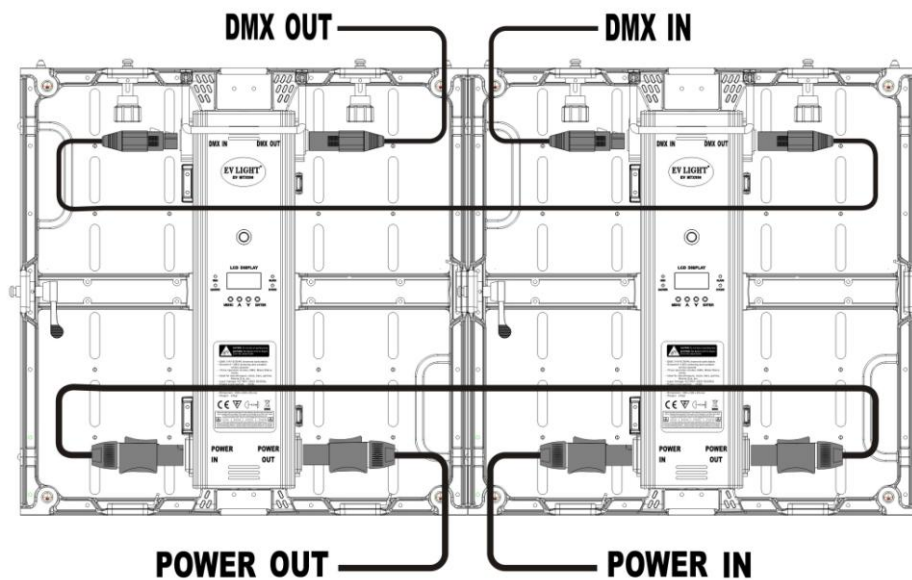
CH1-CH36	<i>Warm white</i>	000-255	0%-100%	
CH37	Red	000-255	0%-100%	
CH38	Green	000-255	0%-100%	
CH39	Blue	000-255	0%-100%	
CH40	Red	000-255	0%-100%	
CH41	Green	000-255	0%-100%	
CH42	Blue	000-255	0%-100%	
CH43	Red	000-255	0%-100%	
CH44	Green	000-255	0%-100%	
CH45	Blue	000-255	0%-100%	
CH46	Red	000-255	0%-100%	
CH47	Green	000-255	0%-100%	
CH48	Blue	000-255	0%-100%	

43-CH mode:

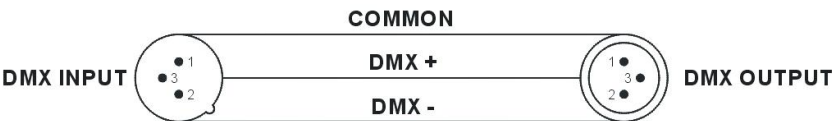
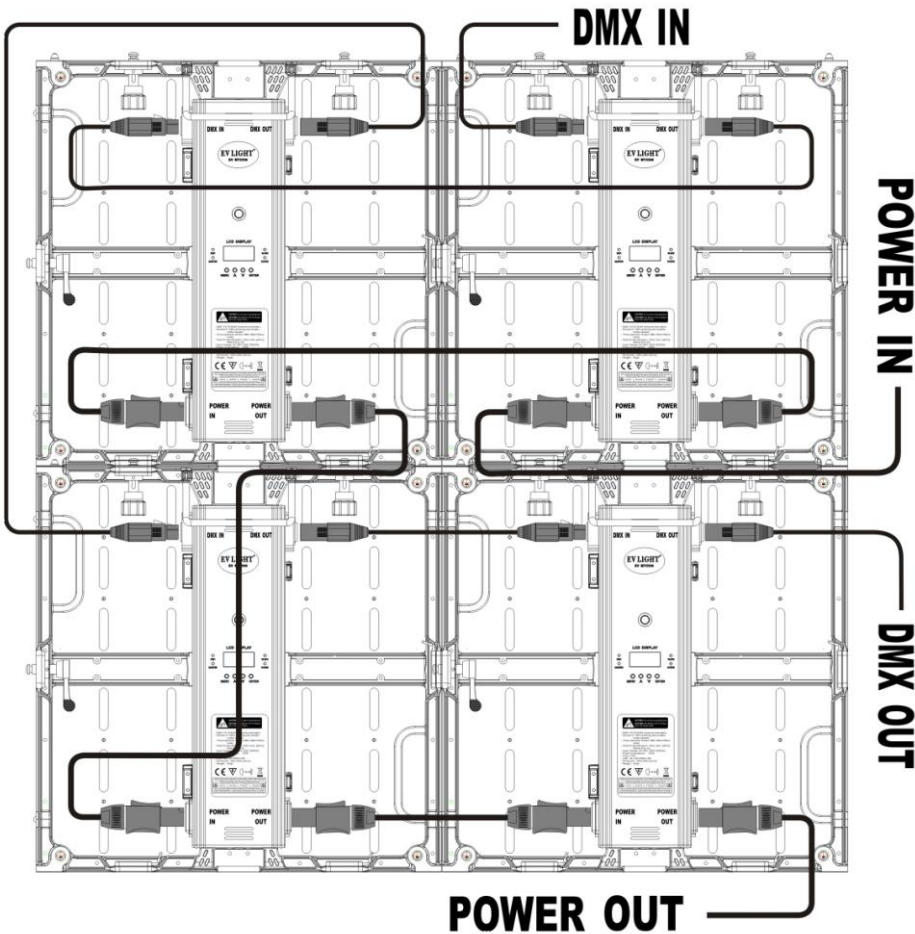
CH1-CH36	Warm white	000-255	0%-100%	
CH37	Mode			
CH38	2-1(line effect)	000-007	No function	
		008-247	Effect01- effect30	
		248-255	Random line effect	
	2-2(Number)	001-015	No function	
		016-215	Number0-Number9	
		216-255	To count forwards 0 up to 9 from slow to fast	
	2-3(letter)	000-021	No function	
		022-255	Letter A- Letter Z	
CH39	Dimmer	000-255	0%-100%	
CH40	Strobe	000-255	0%-100%	
CH41	Red	000-255	0%-100%	
CH42	Green	000-255	0%-100%	
CH43	Blue	000-255	0%-100%	

7. DMX512 Connections

1 * 1 mode connection:



2 * 2 mode connection:



Termination reduces signal errors and 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.



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 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.

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.
 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

- ☒ 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.