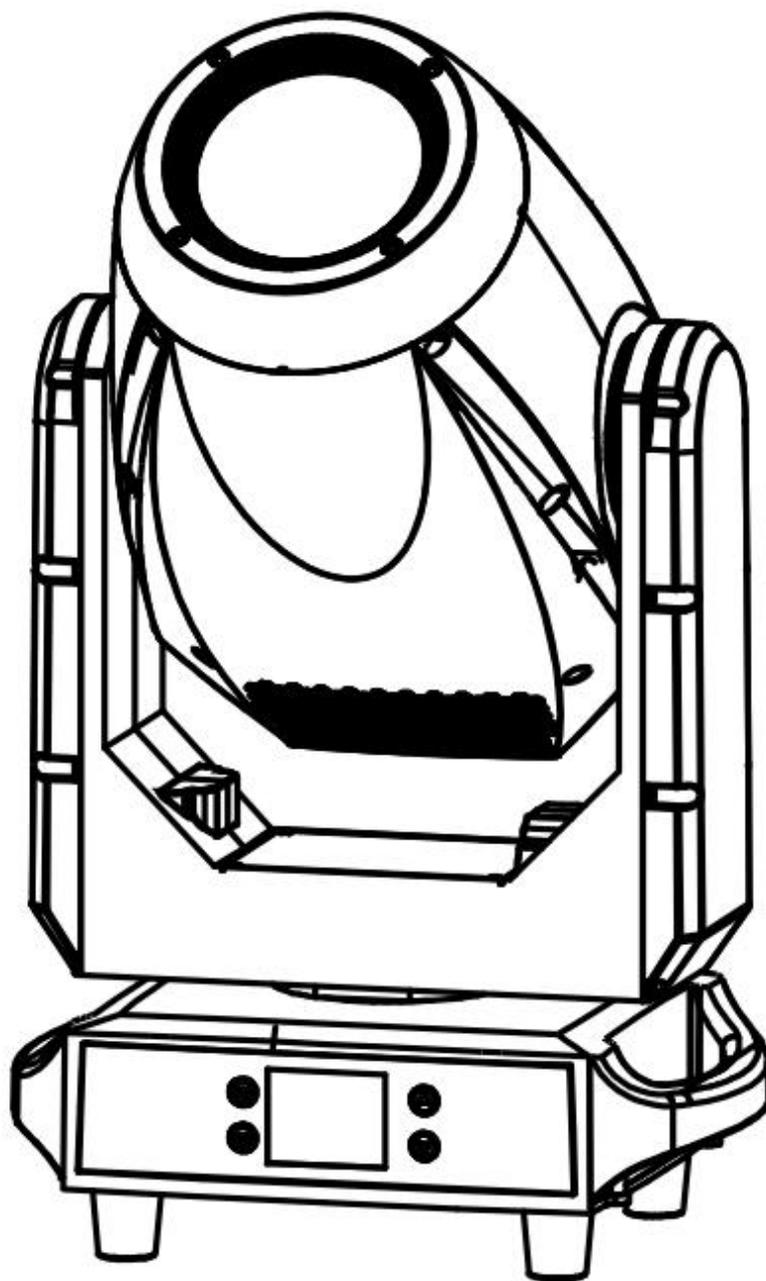


LED Outdoor 3 in 1 Moving Head 300W C1-300BSW/IP



User Manual

Please read the instruction carefully before use

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1. Safety Instructions



Please read the instruction carefully which includes important information about the installation, usage and maintenance.

WARNING

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- 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, otherwise the unit will be overheated.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0°C. Maximum ambient temperature TA: 40°C.
- DO NOT connect the device to any dimmer pack.
- During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.
- Make sure there are no flammable materials close to the unit while operating to avoid fire hazard.
- Examine the power wires carefully; replace them immediately if there is any damage.
- Unit's surface temperature may reach up to 75°C. DO NOT touch the housing bare-handed during its operation.
- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happens, cut off the mains power immediately.
- DO NOT operate in dirty or dusty environment, do clean fixtures regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together twist other cables.

- The minimum distance between light output and the illuminated surface must be more than 12 meters.
- Disconnect mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the unit as there are no user serviceable parts inside.
- Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect the mains power if the fixture is has not been used for a long time.
- DO use the original packing materials before transporting it again.
- DO NOT look directly at the light while the LED is on.
- DO NOT start on the unit without LED enclosure or when housing is damaged.

Installation:

The fixture should be mounted via its Omega Quick Release Clamp bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating and make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the fixtures weight. Always use a safety cable that can hold 12 times of the weight of the fixture when installing.

The equipment must be installed by professionals. It must be installed in a place where is out of the reach of people and no one can pass by or under it.

2. Technical Specifications

Power Voltage:

AC 100~240V, 50/60Hz

Power Consumption:

380W

Light Source:

300W Module LED

Zoom Range:

6°~40°

Movement:

Pan: 540°

Tilt: 270°

Pan/Tilt Resolution: 16bit

Dimming/Strobe:

0~100% smooth dimming, variable strobe speeds

Control:

DMX Channel: 18/23 Channels

Control Mode: DMX, RDM, Master/Slave

Firmware Upgrade: Update via DMX link

Construction:

Display: LCD display

Data In/Out: 3-pin & 5-pin XLR

Power In/Out: Power Connector in/out

Protection Rating: IP65

Features:

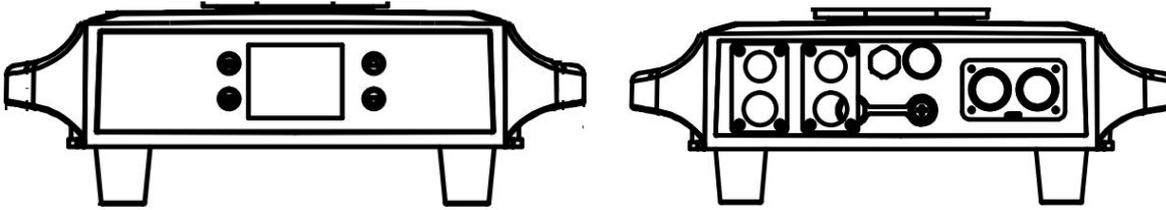
Electronic linear zoom system

Ring control, outstanding color macro effect

Dimension:443×402×530mm, Weight:16Kg

3. How To Set The Unit

3.1 Control Panel



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

2. **LED:**

POWER	ON	Power On
DMX	ON	DMX input present

3. **Button:**

MENU	To enter into menu or leave the menu
DOWN ▼	To go forward in the selected functions
UP ▲	To go backward in the selected functions
ENTER	To confirm the selected functions

4. **DMX IN:**

DMX512 link, use 3/5-pin XLR cable to link the unit and the DMX controller

5. **DMX OUT:**

DMX512 link, use 3/5-pin XLR cable to link the next unit and output DMX signal

6. **MAINS IN:**

To connect to the mains supply

7. **MAINS OUT:**

To connect to the next unit

8. **Fuse(T 10A):**

Protects the unit from over-voltage or short circuit

3.2 Main Function

Turn on the unit, press the **MENU** button into menu mode, and press the **UP/DOWN** button until the required function is shown on the monitor. Select the function by the **ENTER** button. Use the **UP/DOWN** button to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press the **MENU** button or let the unit idle one minute to exit menu mode.

The main functions are shown below:

DMX Function	DMX Address	1-512
	DMX Channel	Mode 1(18)
		Mode 2(23)
	No DMX	Sound
		Freeze
Blackout		
View Dmx Value	---	
Show Settings	Show Mode	Show 1,2,3,4
	Slave Mode	Slave 1,Slav 2
	Sound Trigger	Off,On
	Sound Sensitivity	000-100
Fixture Settings	Pan Inverse	Yed/No
	Tilt Inverse	Yed/No
	P/T Feedback	Yed/No
	Dimmer Curve	Linear
		Square
		Inv SQ
S Curve		
Dimmer Speed	Fast	
	Smooth	
Dispaly Settings	Display Inverse	Auto/Yes/No
	Backlight Switch	On/Off
	Backlight Intensity	1-10
	Temperature Unit	°C/°F
	Lock KeyBoard	Yes/No
	Language	Chinese/English
Fixture Test	Auto Test	-
	Manual Test	-
Fixture Information	Fixture use time	-
	Firmware Version	-
Reset	Pan/Tilt	Yes/No
	Effect	Yes/No
	All	Yes/No
Special Function	Factory Setting	Yes/No
	Password	000-999

DMX Functions

Enter MENU mode, select **DMX Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, **DMX Channel**, **No DMX** or **View DMX Value**.

DMX Address

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from 001 to 512 , press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

DMX Channel

To select **DMX Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Mode 1 (18)** or **Mode 2 (23)**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

No DMX

To select **No DMX**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Sound ,Freeze** or **Blackout**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

View DMX Value

To select **View DMX Value**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to view the DMX channel values. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Show Settings

Enter MENU mode, select **Show Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Show Mode**, **Slave Mode**, **Sound Trigger** or **Sound Sensitivity**.

Show Mode

To select **Show Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Show 1**, **Show 2**, **Show 3** or **Show 4**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Slave Mode

To select **Slave Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Slave 1** or **Slave 2**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Sound Trigger

To select **Sound Trigger**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Off** or **On**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Sound Sensitivity

To select **Sound Sensitivity**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **O-100**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Setting

Enter MENU mode, select **Fixture Setting**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan Inverse**, **Tilt Inverse**, **P/T Feedback**, **Dimmer Curve** or **Dimmer Speed**.

Pan Inverse

To select **Pan Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (pan inverse), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Tilt Inverse

To select **Tilt Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (tilt inverse), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

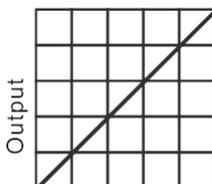
P/T Feedback

To select **P/T Feedback**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (Pan or tilt's position will not feedback while out of step) or **Yes** (Feedback while pan/tilt out of step), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

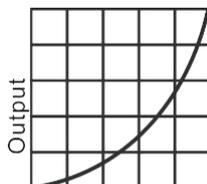
Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Linear**, **Square Law**, **Inverse Squ.** or **S-Curve**. Once selected, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

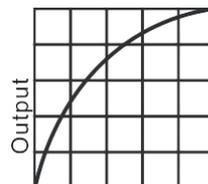
Dimmer Modes:



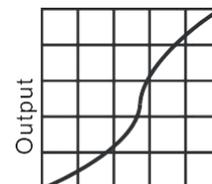
DMX%
(Optically Linear)



DMX%
(Square Law)



DMX%
(Inverse Square Law)



DMX%
(S-Curve)

Linear: The increase in light intensity appears to be linear as DMX value is increased.

Square Law: Light intensity control is finer at low levels and coarser at high levels.

Inverse Square Law: Light intensity control is coarser at low levels and finer at high levels.

S-cure: Light intensity control is finger at low levels and high levels and coarser at medium levels.

Dimmer Speed

To select **Dimmer Speed**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Fast** or **Smooth**. Once selected, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Display Setting

Enter **MENU** mode, select **Display Setting**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Display Inverse, Backlight Switch, Backlight Intensity, Temperature unit, Lock KeyBoard** or **Language**.

Display Inverse

To select **Display Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (display inverse). Once selected, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Backlight Switch

To select **Backlight Switch**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (display always on) or **Yes** (display goes off one minute after exiting menu mode). Once selected, press the **ENTER** button to confirm and store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Backlight Intensity

To select **Backlight Intensity**, press **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the intensity from **1** (dark) to **10** (bright). Once selected, press the **ENTER** button to setup and store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Temperature Unit

To Select **Temperature Unit**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **°C** or **°F**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Lock KeyBoard

To Select **Lock KeyBoard**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Yes** or **No**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Language

To select **Language**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **English or Chinese** will show the error warning when the unit went wrong), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Test

Enter **MENU** mode, select **Fixture Test**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Auto Test** or **Manual Test**

Auto Test

To select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, dimmer, shutter, spe.fun and etc. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

To select **Manual Test**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select channel, and adjust the channel value. Once selected, press the **ENTER** button to setup, the fixture will run as the channel value indicates. Press the **MENU** button back to the last menu or exit menu mode let the unit idle one minute.

(All channels value will become 0 after exiting **Manual Test** menu)

Fixture Information

Enter **MENU** mode, select **Fixture Information**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Fixture use time** or **Firmware Version**.

Fixture use time

To select **Fixture use time**, press the **ENTER** button to confirm, the fixture working hours will show on the display. Press the **MENU** button to exit.

Firmware Version

To select **Firmware Version**, press the **ENTER** button to confirm, the fixture software version will show on the display. Press the **MENU** button to exit.

Reset Functions

Enter **MENU** mode, select **Reset Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan/Tilt, Zoom** or **All**.

Pan/Tilt

To Select **Pan/Tilt**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** or **Yes** (the unit will run built-in program to reset pan and tilt to their home positions), press the **ENTER** button to store. Press the **MENU** button to exit menu mode.

Zoom

To select **Zoom**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** or **Yes** (the unit will run built-in program to reset zoom to its home positions), press the **ENTER** button to store. Press the **MENU** button to exit menu mode.

All

To select **All**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** or **Yes** (the unit will run built-in program to reset all motors to their home positions), press **ENTER** button to store. Press **MENU** button to exit menu mode.

Special Functions

Enter MENU mode, select **Special Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Factory Setting** or **Password**.

Factory Setting

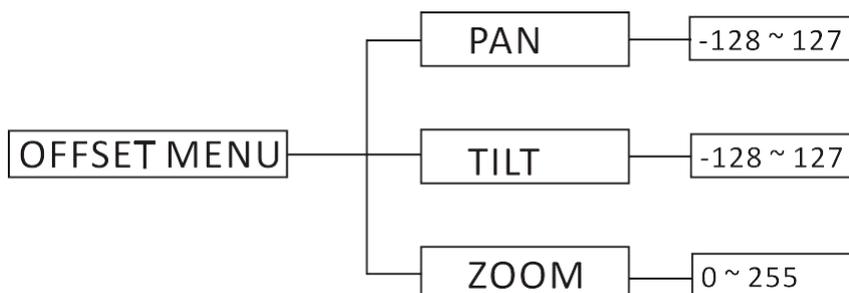
To select **Factory Setting**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** or **Yes** (the fixture will reset to factory settings and exit menu mode).

Password

To select **Password**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **000-999** (the fixture will reset to factory settings and exit menu mode).

3.3 Home Position Adjustment

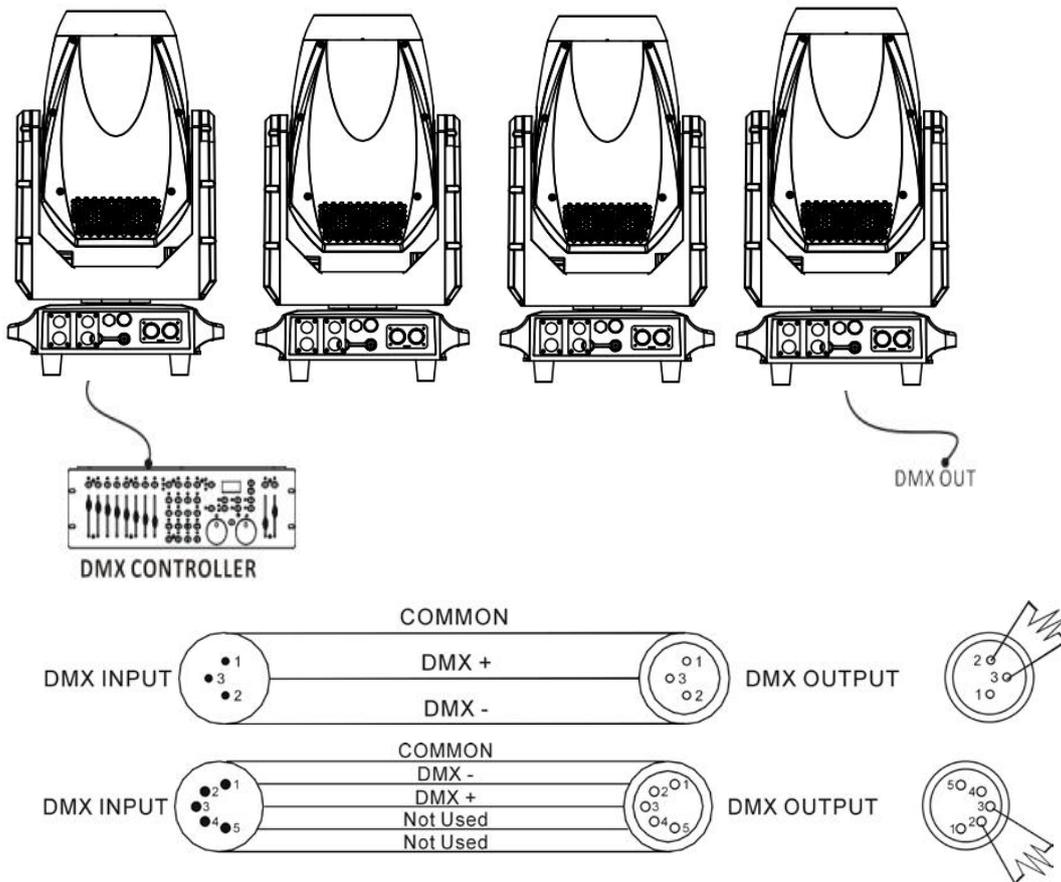
Press the **MENU** button into menu mode, then press the **ENTER** button for about 3 seconds into offset mode to adjust the home position. Select the function by the **ENTER** button. Use the **UP/DOWN** button to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press MENU button to exit.



In the main functions, hold the **ENTER** button for at least 3 seconds into offset mode, use the **DOWN/UP** button up to select **Pan**, **Tilt** or **Zoom**, and press the **ENTER** button to confirm. Use the **DOWN/UP** button to adjust the home position of the Pan, Tilt or Zoom, once the position has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button about one second or wait for about one minute to exit the menu mode.

4. Control By Universal DMX Controller

4.1 DMX512 Connection



1. At last unit, the DMX cable has to be terminated with a terminator. 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 unit.
2. Connect the unit together in a “daisy chain” by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a “Y” cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units’ power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 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, Pin5 not used.

4.2 Address Setting

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

Press the **MENU** button to enter menu mode, select **DMX Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, press the **ENTER** button to confirm, the present address will be blinking on the display, use the **UP/DOWN** button to adjust the address from 001 to 512, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling let the unit idle one minute to exit menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
18 channels	1	19	37	55
23 channels	1	24	47	70

4.3 DMX512 Configuration

Please refer to below configurations to control the fixtures

Attentions:

1. The unit will maintain the last condition until reset if you cut-off the DMX signal.
2. For the channel Function, keep the value for about 5 seconds, then the corresponding function will take into effect.

18 Channels Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	Pan 0° → 540°
2	000-255	Tilt 0° → 270°
3	000-255	PAN/TILT SPEED Fast to Slow
	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	SHUTTER Off On Strobe from slow to fast open Slow open fast close from slow to fast open Fast open slow close from slow to fast open Random strobe from slow to fast open
5	000-255	Dimmer 0% → 100%
6	000 - 010	Color Open

	011 - 015 016 - 020 021 - 025 026 - 030 031 - 035 036 - 040 041 - 045 046 - 050 051 - 055 056 - 060 061 - 127 128 - 189 190 - 193 194 - 255	Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Color 7 Color 8 Color 9 Color 10 Color Position Index Rotate counterclockwise, from fast to slow Stop Rotate clockwise, from slow to fast
7	000 - 010 011 - 015 016 - 020 021 - 025 026 - 030 031 - 035 036 - 040 041 - 045 046 - 050 051 - 060 061 - 070 071 - 080 081 - 090 091 - 100 101 - 110 111 - 120 121 - 127 128 - 190 191 - 192 193 - 255	Rotating Gobo Wheel Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 1 shake from slow to fast Gobo 2 shake from slow to fast Gobo 3 shake from slow to fast Gobo 4 shake from slow to fast Gobo 5 shake from slow to fast Gobo 6 shake from slow to fast Gobo 7 shake from slow to fast Gobo 8 shake from slow to fast Rotate counterclockwise, from fast to slow Stop Rotate clockwise, from slow to fast
8	000-127 128-189 190-193 194-255	Rotating Gobo Rotation Slide step, 0° ->360° Rotate counterclockwise, from fast to slow stop Rotate clockwise, from slow to fast
9	000 - 010 011 - 015 016 - 020 021 - 025 026 - 030 031 - 035 036 - 040 041 - 045 046 - 050 051 - 060 061 - 070 071 - 080	Fixed Gobo Wheel Open Fixed gobo 1 Fixed gobo 2 Fixed gobo 3 Fixed gobo 4 Fixed gobo 5 Fixed gobo 6 Fixed gobo 7 Fixed gobo 8 Fixed Gobo 1 shake from slow to fast Fixed Gobo 2 shake from slow to fast Fixed Gobo 3 shake from slow to fast

	081 - 090 091 - 100 101 - 110 111 - 120 121 - 127 128 - 190 191 - 192 193 - 255	Fixed Gobo 4 shake from slow to fast Fixed Gobo 5 shake from slow to fast Fixed Gobo 6 shake from slow to fast Fixed Gobo 7 shake from slow to fast Fixed Gobo 8 shake from slow to fast Rotate counterclockwise, from fast to slow Stop Rotate clockwise, from slow to fast
10	000-255	Zoom 0%->100%
11	000-255	Focus 0%->100%
12	000-007 008-255	Prism No function Prism open
13	0-127 128-189 190-193 (194-255)	Prism Rotation Prism 1/2 position (0 ° -360 °) Clockwise rotation (from fast to slow) stop Rotate counterclockwise (from slow to fast)
14	000-007 008-255	Frost No function Frost open
15	000-255	Show Mode Show 1-4
16	000-255	Horizontal and vertical macro running method Running Method 1-32
17	000-255	Horizontal and vertical macro running speed From fast to slow
18	0-69 70-79 80-89 90-99) 100-109 110-119 120-129 130-139 140-149 150-199 200-209 210-219 220-229 230-255	Special Function Open XY axis movement light avoidance function enabled XY axis movement light avoidance function disabled Color wheel movement and light avoidance enable Color disk movement, light avoidance, and disability Pattern disk movement and light avoidance enable Pattern disk moves to avoid light and becomes disabled Fast dimming speed Smooth dimming speed No function All reset XY axis reset Head motor reset No function

23 Channels Mode:

CHANNEL	VALUE	FUNCITON
1	000-255	Pan 0 ° → 540°
2	000-255	Pan Fine
3	000-255	Tilt 0 ° → 270°
4	000-255	Tilt Fine
5	000-255	PAN/TILT SPEED Fast to Slow
6	0-69 70-79 80-89 90-99) 100-109 110-119 120-129 130-139 140-149 150-199 200-209 210-219 220-229 230-255	Special Function Open XY axis movement light avoidance function enabled XY axis movement light avoidance function disabled Color wheel movement and light avoidance enable Color disk movement, light avoidance, and disability Pattern disk movement and light avoidance enable Pattern disk moves to avoid light and becomes disabled Fast dimming speed Smooth dimming speed No function All reset XY axis reset Head motor reset No function
7	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	SHUTTER Off On Strobe from slow to fast open Slow open fast close from slow to fast open Fast open slow close from slow to fast open Random strobe from slow to fast open
8	000-255	Dimmer 0% → 100%
9	000-255	Dimmer Fine
10	000 - 010 011 - 015 016 - 020 021 - 025 026 - 030 031 - 035 036 - 040	Color Open Color 1 Color 2 Color 3 Color 4 Color 5 Color 6

	041 - 045 046 - 050 051 - 055 056 - 060 061 - 127 128 - 189 190 - 193 194 - 255	Color 7 Color 8 Color 9 Color 10 Color Position Index Rotate counterclockwise, from fast to slow Stop Rotate clockwise, from slow to fast
11	000 - 010 011 - 015 016 - 020 021 - 025 026 - 030 031 - 035 036 - 040 041 - 045 046 - 050 051 - 060 061 - 070 071 - 080 081 - 090 091 - 100 101 - 110 111 - 120 121 - 127 128 - 190 191 - 192 193 - 255	Rotating Gobo Wheel Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 1 shake from slow to fast Gobo 2 shake from slow to fast Gobo 3 shake from slow to fast Gobo 4 shake from slow to fast Gobo 5 shake from slow to fast Gobo 6 shake from slow to fast Gobo 7 shake from slow to fast Gobo 8 shake from slow to fast Rotate counterclockwise, from fast to slow Stop Rotate clockwise, from slow to fast
12	000-127 128-189 190-193 194-255	Rotating Gobo Ration Slide step, 0° ->360° Rotate counterclockwise, from fast to slow stop Rotate clockwise, from slow to fast
13	000 - 010 011 - 015 016 - 020 021 - 025 026 - 030 031 - 035 036 - 040 041 - 045 046 - 050 051 - 060 061 - 070 071 - 080 081 - 090 091 - 100 101 - 110 111 - 120 121 - 127	Fixed Gobo Wheel Open Fixed gobo 1 Fixed gobo 2 Fixed gobo 3 Fixed gobo 4 Fixed gobo 5 Fixed gobo 6 Fixed gobo 7 Fixed gobo 8 Fixed Gobo 1 shake from slow to fast Fixed Gobo 2 shake from slow to fast Fixed Gobo 3 shake from slow to fast Fixed Gobo 4 shake from slow to fast Fixed Gobo 5 shake from slow to fast Fixed Gobo 6 shake from slow to fast Fixed Gobo 7 shake from slow to fast Fixed Gobo 8 shake from slow to fast

	128 - 190 191 - 192 193 - 255	Rotate counterclockwise, from fast to slow Stop Rotate clockwise, from slow to fast
14	000-255	Zoom 0%->100%
15	000-255	Zoom Fine 0%->100%
16	000-255	Focus 0%->100%
17	000-255	Focus Fine 0%->100%
18	000-007 008-255	Prism No function Prism open
19	0-127 128-189 190-193 (194-255)	Prism Rotation Prism 1/2 position (0 ° -360 °) Clockwise rotation (from fast to slow) stop Rotate counterclockwise (from slow to fast)
20	000-007 008-255	Frost No function Frost open
21	000-255	Show Mode Show 1-4
22	000-255	Horizontal and vertical macro running method Running Method 1-32
23	000-255	Horizontal and vertical macro running speed From fast to slow

5 Troubleshooting

Following are a few common problems that may occur during operation.

Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connect power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED to see if it can be light up or not.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked 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 unit or the previous one.
4. Try to use another DMX controller.
5. Check to see if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

c. 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.

6. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors 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 unit's optics.

- Clean with soft cloth and use normal glass to clean liquid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.