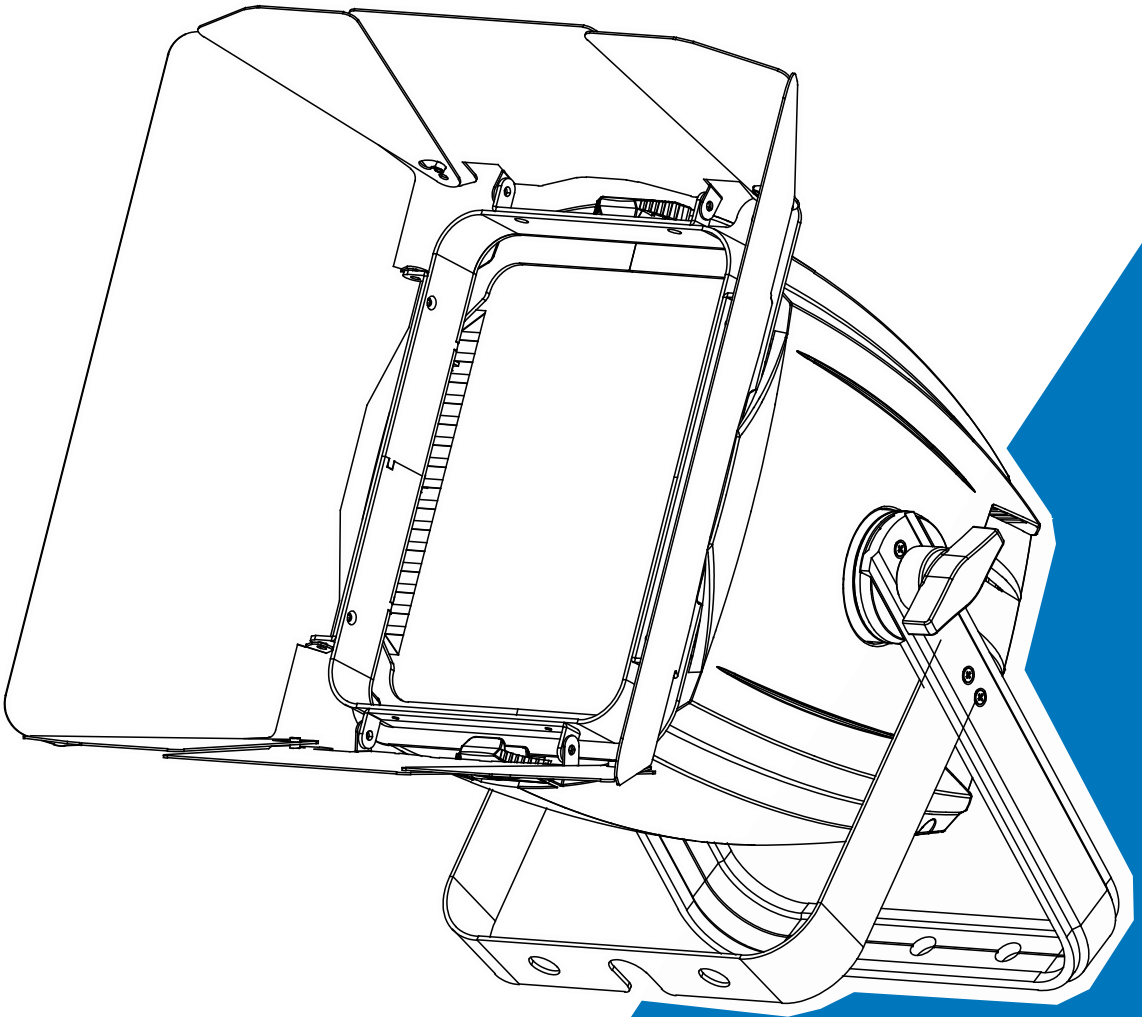
Theatre LED Colour Flood



User Manual

Please read the instruction carefully before use

CONTENTS

1. Safety Introductions 2

2. Technical Specifications 4

3. How To Set The Fixture 6

3.1 Control Panel 6

3. 2 The Plate for Color Filter & Barn Door Installation 7

3.3 Main Function 7

4. Control By Universal DMX Controller 12

4.1 DMX512 Connection 12

4.2 Address Setting 13

4.3. DMX512 Configuration 13

5. Troubleshooting 16

6. Fixture Cleaning 16

1. Safety Introductions

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℃. Maximum ambient temperature TA: 40℃.
- DO NOT connect the device to any dimmer pack.
- 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.
- 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.
- 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:

170W

Light Source:

TX-5260RGBW150D180

Color Temperature:

2800~6000K

Beam Angle:

90°x113°

Control:

DMX Channel: 4/9 channels

Control Mode: DMX

Firmware Upgrade via DMX link

Construction:

Display: LCD display

Data In/Out: 5-pin XLR

Power In/Out: PowerCon in/out

Protection Rating: IP20

Features:

Can be used to render the back ground of wall, ceiling and ground

4 dimming curves (linear, square law, invert square law, S-curve)

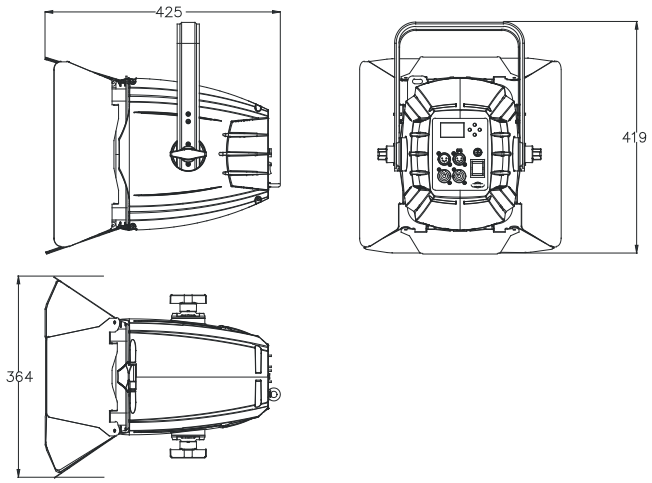
0~100% smooth dimming

Various strobe speeds

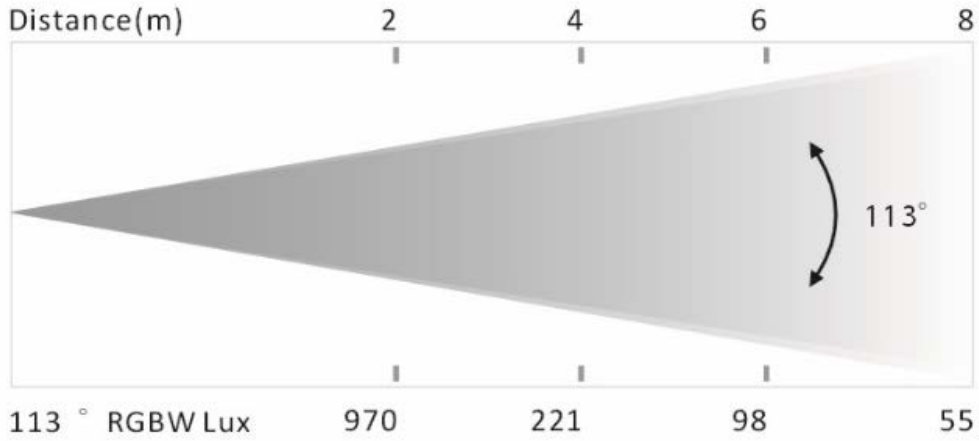
Dimension/Weight:

364x425x419mm, 6.2kgs

14.3”x16.7”x16.5”in, 13.7lbs

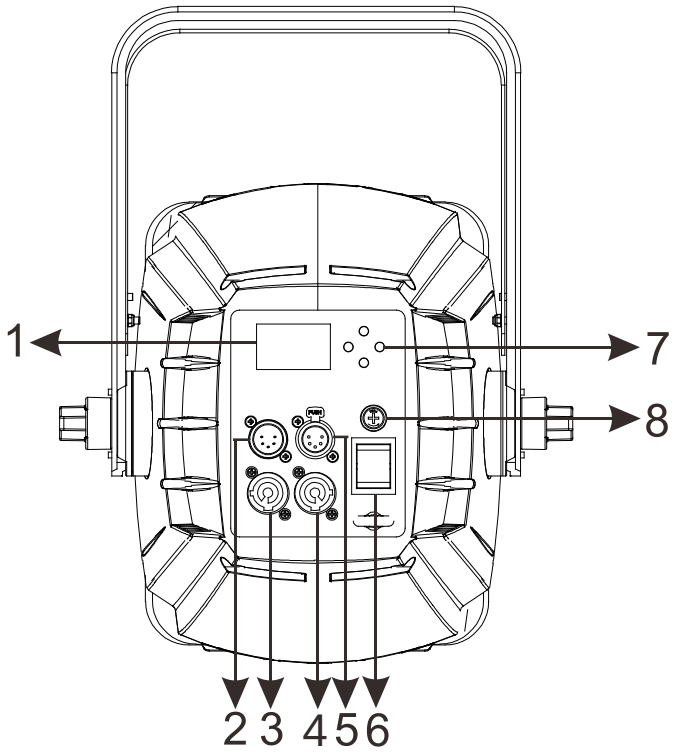


Photometrics Diagram:



3. How To Set The Fixture

3.1 Control Panel



1. DISPLAY: Shows the various menus and the selected functions

2. DMX IN: For DMX512 link, use 5-pin XLR cable to link the unit to a DMX controller

3. MAINS IN: Connects to supply power

4. MAINS OUT: Connects to the next fixture

5. DMX OUT: For DMX512 link, use 5-pin XLR cable to link to the next unit

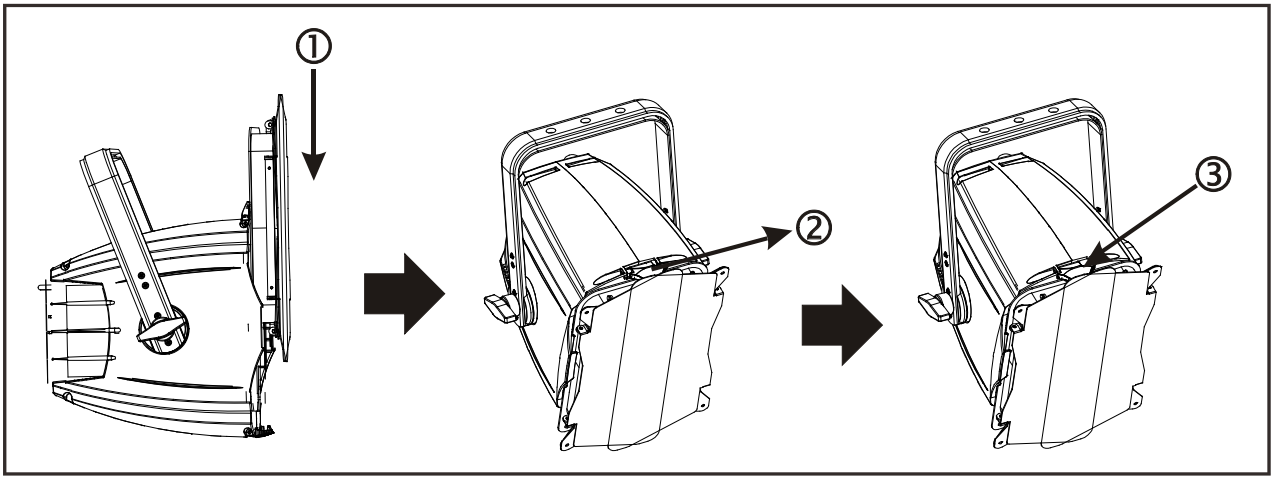
6. POWER SWITCH: Turns on/off the power

7. Button:

MENU	To select the programming functions
UP	To go backward in the selected functions
DOWN	To go forward in the selected functions
ENTER	To confirm the selected functions

8. FUSE(T 3.15A): To protect the unit from damage of over current

3. 2 The Plate for Color Filter & Barn Door Installation

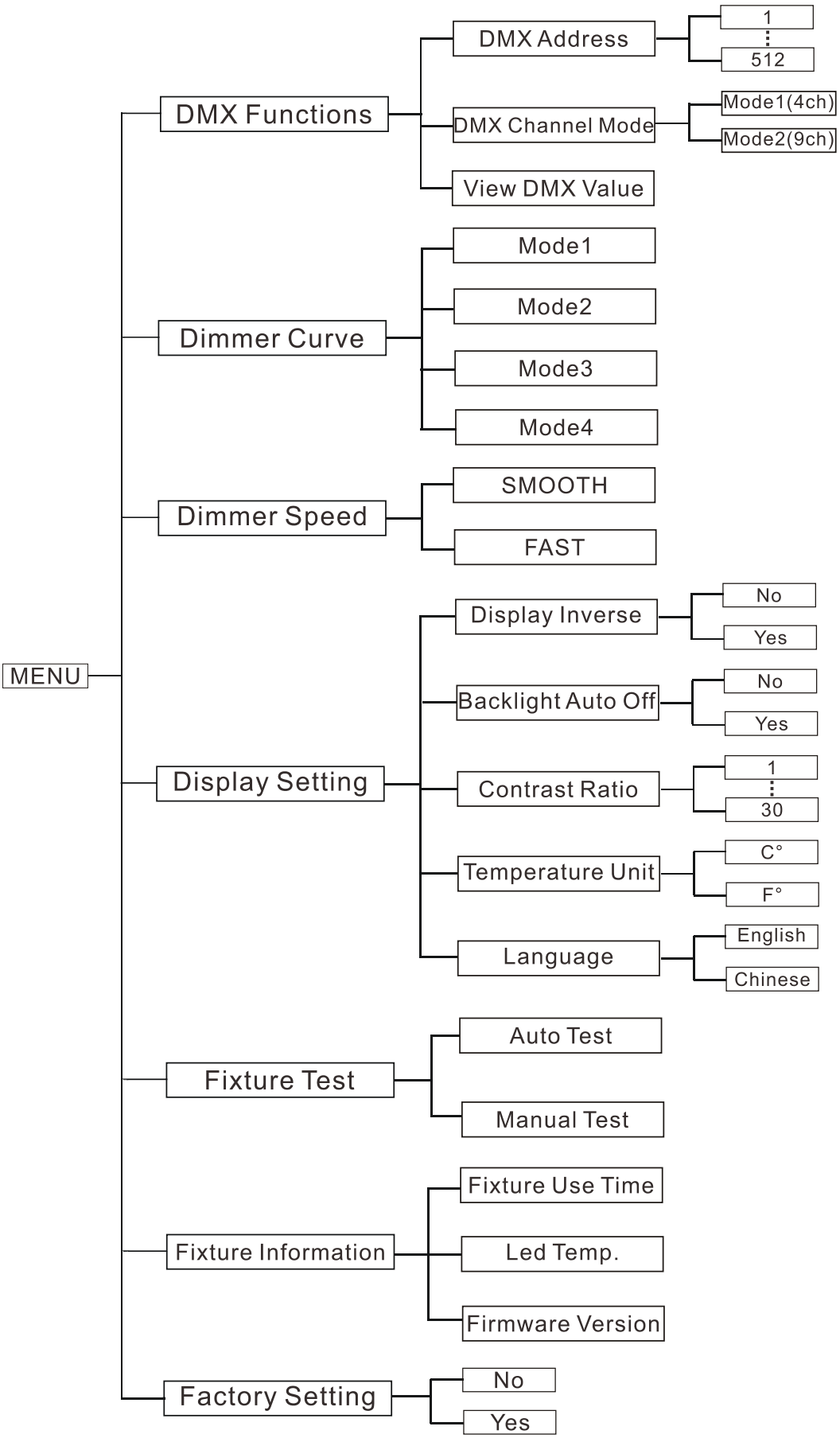


Please insert the Barn Door into the outside slot from topside as arrow ①, and fasten the lock (**Note**: the Barn Door must be fastened into the inside of the lock's hook);

Finally, as arrow ②, (**Note**: the lock must turn right to move) flip down the lock cap again as arrow ③, in order to fasten the Barn Door.

3.3 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 30 seconds to exit menu mode. The main functions are shown below:


MENU
DMX Functions
DMX Address
1
512
DMX Channel Mode
Mode1(4ch)
Mode2(9ch)
View DMX Value
Dimmer Curve
Mode1
Mode2
Mode3
Mode4
Dimmer Speed
SMOOTH
FAST
Display Setting
Display Inverse
No
Yes
Backlight Auto Off
No
Yes
Contrast Ratio
1
30
Temperature Unit
C°
F°
Language
English
Chinese
Fixture Test
Auto Test
Manual Test
Fixture Information
Fixture Use Time
Led Temp.
Firmware Version
Factory Setting
No
Yes

DMX Functions

To select **DMX Functions**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **DMX Address**, **DMX Channel Mode** 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 **1** to **512**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

DMX Channel Mode

To select **DMX Channel Mode**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Mode 1 (4 ch)** or **Mode 2 (9 ch)**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

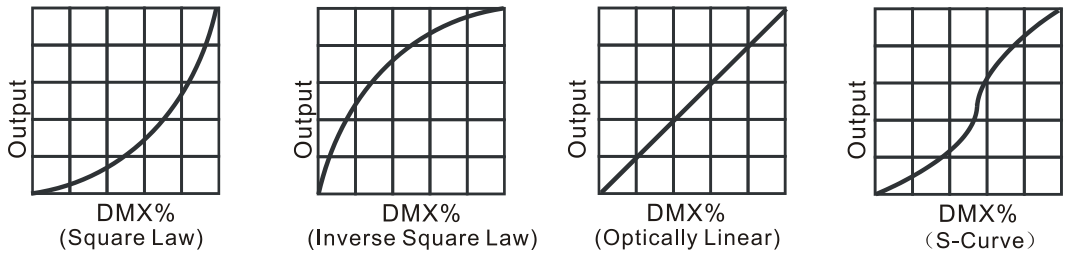
View DMX Value

To select **View DMX Value**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to view the channel value, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Mode 1**, **Mode 2, Mode 3** or **Mode 4**. Once selected, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Dimmer Modes:



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 finger at high levels.

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

S-curve: 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 **SMOOTH** (dimmer speed smooth) or **FAST**(dimmer speed fast), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Display Setting

To select **Display Setting**, press the **ENTER** button to confirm, use **UP/DOWN** button to select **Display Inverse, Backlight Auto Off, Contrast Ratio, Temperature Unit** or **Language**.

Display Inverse

To select **Display Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select the **No** (normal display) or **Yes** (inverse display), press the **ENTER** button to save. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Backlight Auto Off

To select **Backlight Auto Off**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (display always on) or **Yes** (display goes off after exiting menu mode for 30 seconds), press the **ENTER** button to save. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Contrast Ratio

To select **Contrast Ratio**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the value from **1** to **30**, press the **ENTER** button to save. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Temperature Unit

To select **Temperature Unit**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select ℃ or ℉, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Language

To select **Language,** press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **English** or **Chinese**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Test

To select **Fixture Test,** press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Auto Test** or **Manual Test,** press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Information

To select **Fixture Information**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Fixture Use Time, LED Temp.** or **Firmware Version**.

Fixture Use Time

To select **Fixture Use Time**, press the **ENTER** button to confirm, and the running time of the fixture will show on the display. Press the **MENU** button back to exit.

LED Temp.

To select **LED Temp.,** press the **ENTER** button to confirm, the current temperature of the fixture will show on the display. Press the **MENU** button back to exit.

Firmware Version

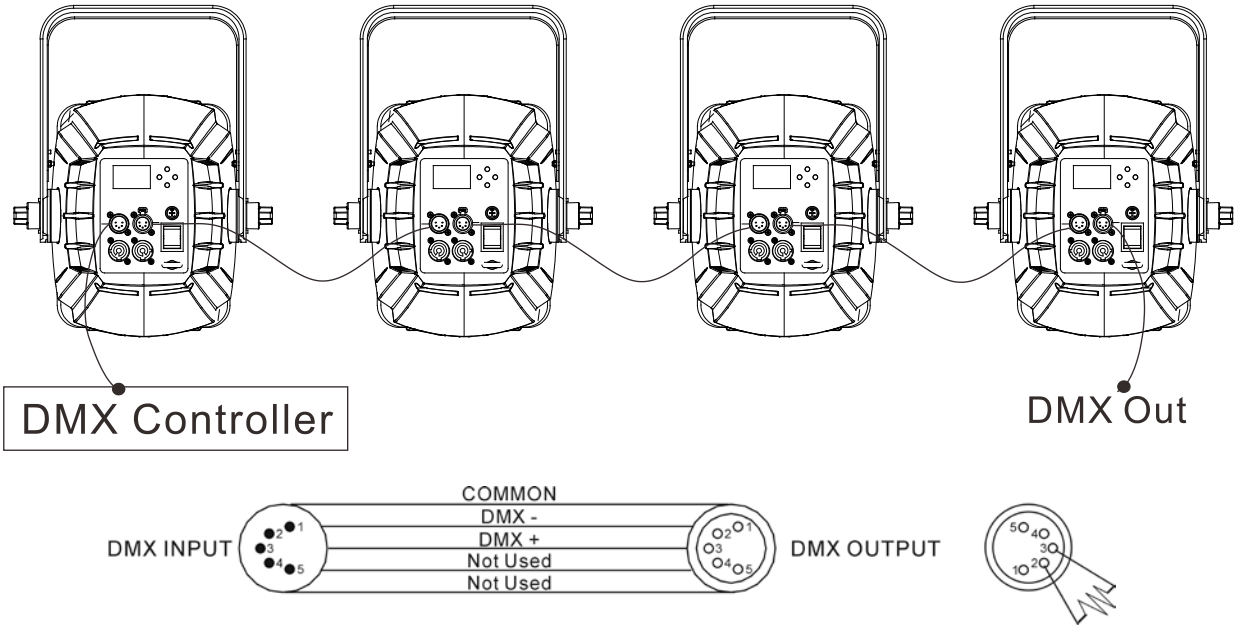
To select **Firmware Version**, press the **ENTER** button to confirm, the software version will show on the display. Press the **MENU** button back to exit.

Factory Setting

Select **Factory Setting,** press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No** or **Yes** (Switch back to default settings). Hold and press the **MENU** button about one second or wait for 30 seconds 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 1-512.

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 Function, 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 blink 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 let the unit idle 30 seconds 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
4 channels	1	5	9	13
9 channels	1	10	19	28

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 3 seconds, then the corresponding function will take into effect.

4 Channel Mode:

CHANNEL	VALUE	FUNCTIONS
1	000-255	**RED** 0%→100%
2	000-255	**GREEN** 0%→100%
3	000-255	**BLUE** 0%→100%
4	000-255	**WHITE** 0%→100%

9 Channel Mode:

CHANNEL	VALUE	FUNCTIONS
1	000-255	**RED** 0%→100%
2	000-255	**GREEN** 0%→100%
3	000-255	**BLUE** 0%→100%
4	000-255	**WHITE** 0%→100%
5		**COLOR MACRO**
	000	Open
	001-006	LEE 790–Moroccan Pink
	007-013	LEE 157–Pink
	014-020	LEE 332–Special Rose Pink
	021-027	LEE 328–Follies Pink
	028-034	LEE 345–Fuchsia Pink
	035-041	LEE 194–Surprise Pink
	042-048	LEE 181–Congo Blue
	049-055	LEE 071–Tokyo Blue
	056-062	LEE 120–Deep Blue
	063-069	LEE 079–Just Blue
	070-076	LEE 132–Medium Blue
	077-083	LEE 200–Double CT Blue
	084-090	LEE 161–State Blue
	091-097	LEE 201–Full CT Blue
	098-104	LEE 202–Half CT Blue
	105-111	LEE 117–Steel Blue
	112-118	LEE 353–Lighter Blue
	119-125	LEE 118–Light Blue
	126-132	LEE 116–Medium Blue Green
	133-139	LEE 124–Dark Green
	140-146	LEE 139–Primary Green
	147-153	LEE 089–Moss Green
	154-160	LEE 122–Fern Green
	161-167	LEE 738–JAS Green
	168-174	LEE 088–Lime Green
	175-181	LEE 100–Spring Yellow
	182-188	LEE 104–Deep Amber
	189-195	LEE 179–Chrome Orange
	196-202	LEE 105–Orange
	203-209	LEE 021–Gold Amber

	210-216 217-223 224-255	LEE 778–Millennium Gold LEE 135–Deep Gold Amber LEE 164–Flame Red
6	 000-041 042-083 084-125 126-167 168-209 210-255	**LEE FILTRES** 2800K 3200K 4400K 5200K 5600K 6000K
7	 000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	**STROBE** Off Open Strobe: Slow to Fast open Fast Close Slow Open Open Fast Open Slow Close Open Random Strobe Open
8	 000-255	**DIMMER** 0%→100%
9	000-255	**DIMMER FINE**

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. Check DMX connectors, cables to see if they are linked properly.
2. 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.

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