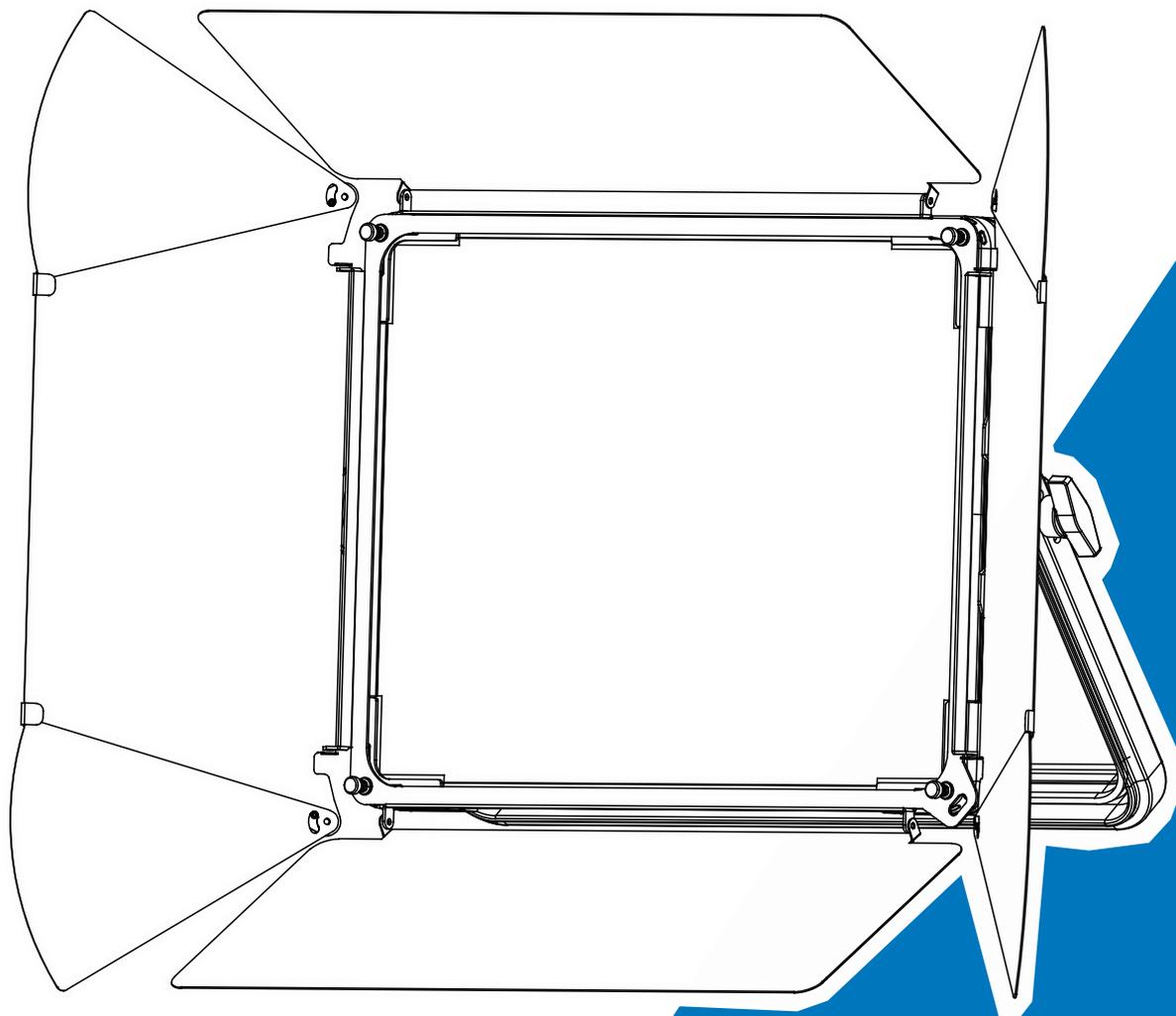


Acme®

LIGHT PANEL *TV* 2000



User Manual

Please read the instruction carefully before use

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1. Safety Introductions



WARNING

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

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 suitable for indoor use only.
- 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 85°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.
- 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 bulb 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:

210W

Light Source:

480pcs CW+480pcs WW LED

Color Temperature:

3200±150K~5600±250K

Beam Angle:

110°

Control:

DMX Channel: 2/3A/3B/4/5/6 channels

Control Mode: DMX, Primary/Secondary, Art-Net

Firmware Upgrade: Update via DMX link

Construction:

Display: LCD display

Data In/Out: 5-pin XLR

Power In/Out: Power Connector in

Protection Rating: IP20

Optical:

CRI: VW≥94

CQS: VW≥94

TLCI: VW≥95

Features:

With outstanding floodlight and soft light

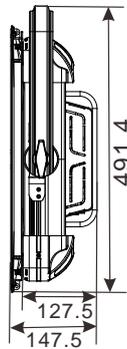
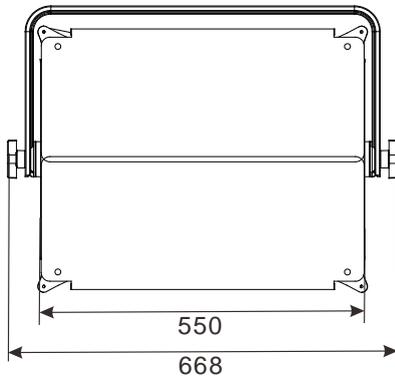
LP-F2000 VW is widely applied to photographic studio, TV station, conference room, shopping mall

Access to battery

Dimensions/Weight:

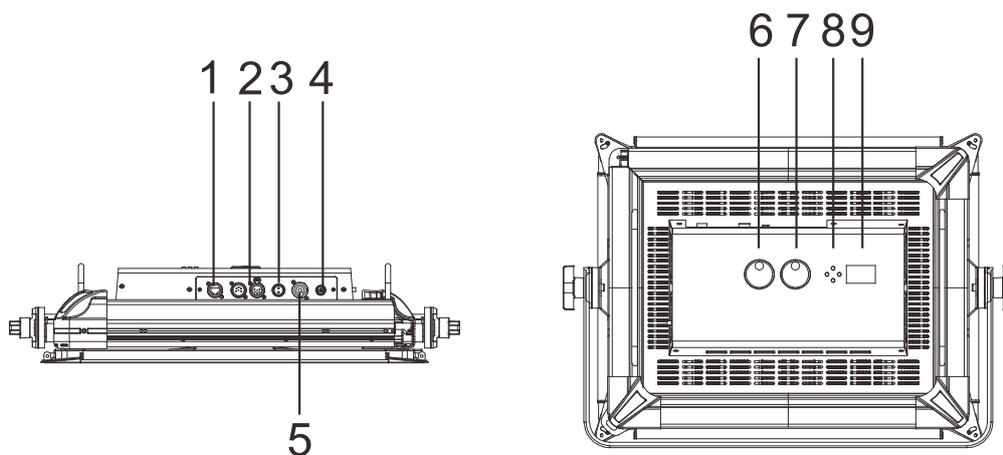
668x147.5x491.4mm, 13kgs

26.3"x5.8"x19.3" in, 28.7lbs



3. How To Set The Unit

3.1 Control Panel



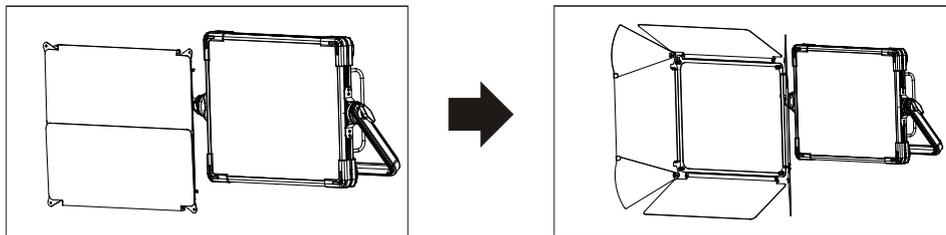
- 1. ETHERNET:** Transfers fixture's information to a main controller
- 2. DMX IN/OUT :** For DMX512 link, use 5-pin XLR cable to link the unit to a DMX controller or the next unit and input/output DMX signal
- 3. BATTERY(DC 48V):** Connects to external battery
- 4. FUSE(T 5A):** To protect the unit from damage of over current
- 5. MAINS IN:** Connects to mains supply power
- 6. Color Temperature Knob:** Adjust the color temperature
- 7. Dimmer Knob:** Adjust the dimmer

8. Button:

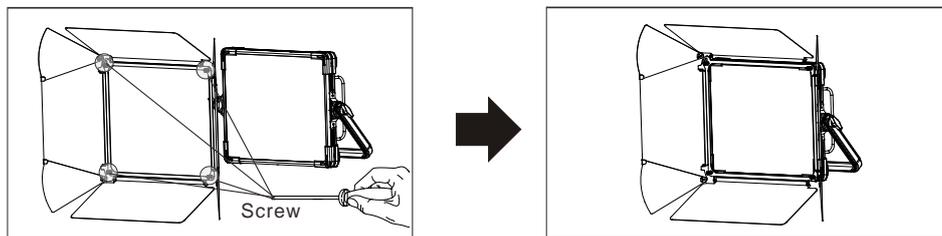
MENU	To select the programming functions
UP	To go backward in the selected functions
DOWN	To go forward in the selected functions
ENTER	To confirm the selected functions

9. Display: Shows the various menus and the selected functions

3.2 The Plate for Barn Door Installation



At first, please push the barn door by hand.

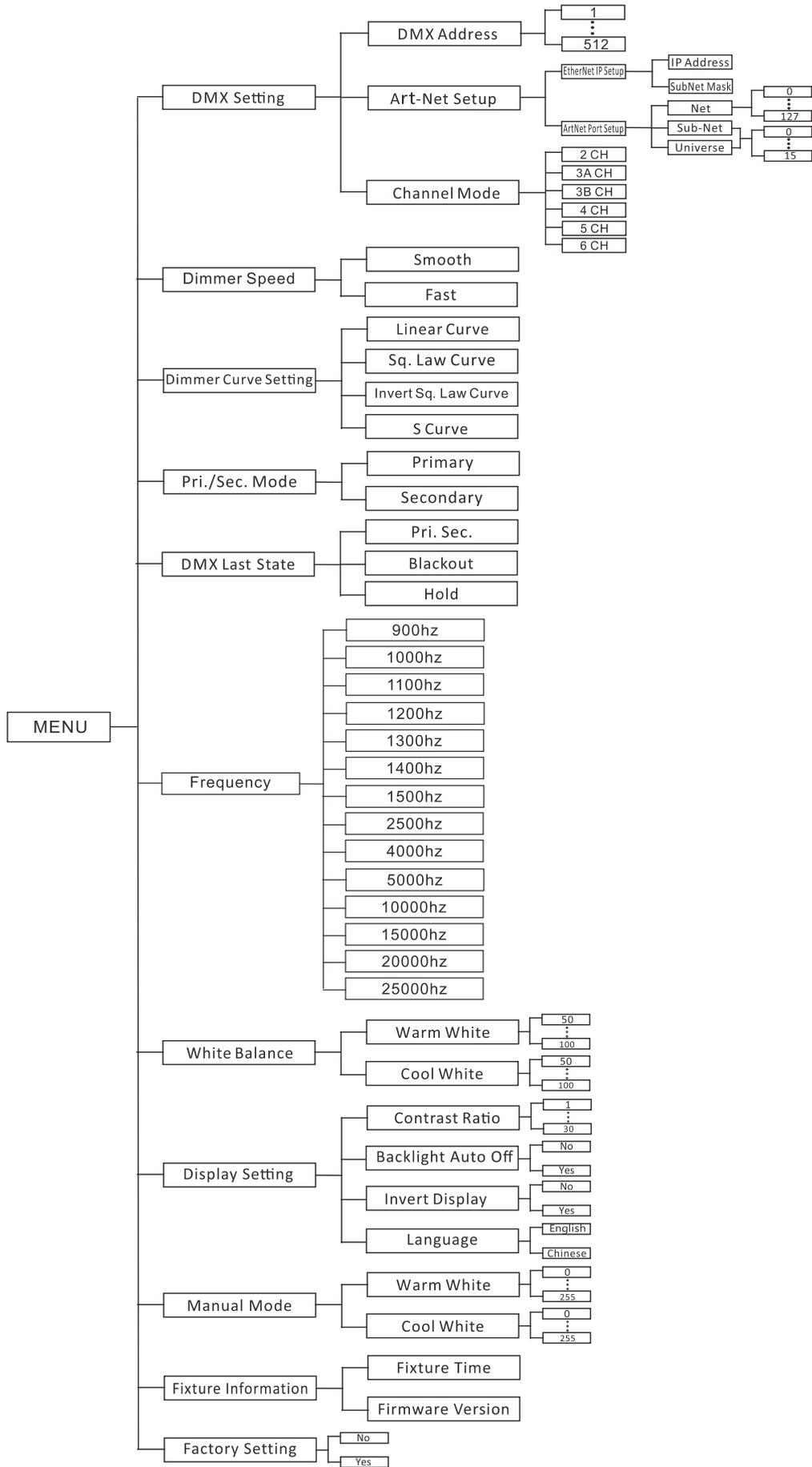


Secondly, please put the Barn Door into the unit, to fasten the screws of the slot, then finish the barn door installation.

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:



DMX Setting

Select the **DMX Setting**, press the **ENTER** button to confirm. Use the **UP** and **DOWN** button to select **DMX Address**, **Art-Net Setup** or **Channel Mode**.

DMX Address

Select the **DMX Address**, press the **ENTER** button to confirm, the display will show the present address. Use the **UP** and **DOWN** button to select **1** to **512**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

Art-Net Setup

Select the **Art-Net Setup**, press the **ENTER** button to confirm. Use the **UP** and **DOWN** button to select the **EtherNet IP Setup** or **ArtNet Port Setup**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

Channel Mode

Select the **Channel Mode**, press the **ENTER** button to confirm, the display will show the present channel mode. Use the **UP** and **DOWN** button to select **2 CH**, **3A CH**, **3B CH**, **4 CH**, **5 CH** or **6 CH**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

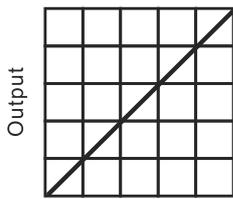
Dimmer Speed

Select the **Dimmer Speed**, press the **ENTER** button to confirm, use the **UP** and **DOWN** button to select the **Smooth** or **Fast**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

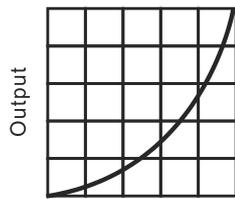
Dimmer Curve Setting

Select **Dimmer Curve Setting**, press the **ENTER** button to confirm. Use the **DOWN/UP** button to select the **Linear Curve**, **Sq. Law Curve**, **Invert Sq. Law Curve** or **S Curve**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

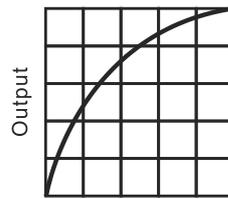
Dimmer Modes



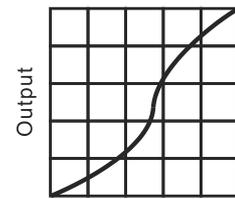
Optically Linear



Square Law



Inverse Square Law



S-curve

Optically 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-Curve: Light intensity control is finer at low levels and high levels and coarser at medium levels.

Pri./Sec. Mode

Select the **Pri./Sec. Mode**, press the **ENTER** button to confirm, use the **UP** and **DOWN** button to select the **Primary** or **Secondary**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

DMX Last State

Select **DMX Last State**, press the **ENTER** button to confirm, the present mode will blink on the display, use the **UP** and **DOWN** button to select **Pri. Sec.**, **Blackout** or **Hold**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

Frequency

Select **Frequency**, press the **ENTER** button to confirm, the present mode will blink on the display, use the **UP** and **DOWN** button to select **900hz**, **1000hz**, **1100hz**, **1200hz**, **1300hz**, **1400hz**, **1500hz**, **2500hz**, **4000hz**, **5000hz**, **10000hz**, **15000hz**, **20000hz** or **25000hz**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

White Balance

Select **White Balance**, press the **ENTER** button to confirm, the present mode will blink on the display, use the **UP** and **DOWN** button to select **Warm White** or **Cool White** and adjust the value from **50** to **100**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

Display Setting

Select **Display Setting**, press the **ENTER** button to confirm, use the **UP** and **DOWN** button to select **Contrast Ratio**, **Backlight Auto off**, **Invert Display** or **Language**.

Contrast Ratio

Select **Contrast Ratio**, press the **ENTER** button to confirm, the present mode will blink on the display, use the **UP** and **DOWN** button to adjust from **1** to **30**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

Backlight Auto Off

Select **Backlight Auto Off**, press the **ENTER** button to confirm, the present mode will blink on the display, use the **UP** and **DOWN** button to select **No** or **Yes**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

Invert Display

Select **Invert Display**, press the **ENTER** button to confirm, the present mode will blink on the display, use the **UP** and **DOWN** button to select **No** or **Yes**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

Language

Select **Language**, press the **ENTER** button to confirm, the present mode will blink on the display, use the **UP** and **DOWN** button to select **English** or **Chinese**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

Manual Mode

Select **Manual Mode**, press the **ENTER** button to confirm, the present mode will blink on the display, use the **UP** and **DOWN** button to select the **Warm White** or **Cool White**, press the **ENTER** button and use the **UP** and **DOWN** button to adjust the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling 30 seconds to exit menu mode.

Fixture Information

Select **Fixture Information**, press the **ENTER** button to confirm, use the **UP** and **DOWN** button to select **Fixture Time** or **Firmware Version**.

Fixture Time

Select **Fixture Time**, press the **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.

Firmware Version

Select **Firmware Version**, press the **ENTER** button and the display will show the version of firmware of the unit. To go back to the functions press the **MENU** button again.

Factory Setting

Select **Factory Setting**, press the **ENTER** button to confirm, the present mode will blink on the display, use the **UP** and **DOWN** button to select the **No** or **Yes**, the fixture will back to factory setting once select Yes.

4. How To Control The Unit

You can operate the unit in three ways:

1. By primary/secondary function
2. By DMX controller
3. By multimedia software via ArtNet

No need to turn the unit off when you change the DMX address, as new DMX address setting will

be affected at once.

4.1 Primary/Secondary Function

By linking the units in primary/secondary connection, the first unit will be primary automatically. You should set the primary unit effect via its knobs, then the other units (secondary) will lighting as the same.

4.2 DMX Controller

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 Setting, 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
2 channels	1	3	5	7
3A channels	1	4	7	10
3B channels	1	4	7	10
4 channels	1	5	9	13
5 channels	1	6	11	16
6 channels	1	7	13	19

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.

2 Channel Mode:

CHANNEL	VALUE	FUNCTIONS
1	000-255	COLOR TEMPERATURE 5600K-3200K
2	000-255	DIMMER 0%→100%

3A Channel Mode:

CHANNEL	VALUE	FUNCTIONS
1	000-255	WW DIMMER 0%→100%
2	000-255	CW DIMMER 0%→100%
3	000-255	DIMMER 0%→100%

3B Channel Mode:

CHANNEL	VALUE	FUNCTIONS
1	000-255	COLOR TEMPERATURE 5600K-3200K
2	000-255	DIMMER 0%→100%
3	000-255	DIMMER FINE

4 Channel Mode:

CHANNEL	VALUE	FUNCTIONS
1	000-255	WW DIMMER 0%→100%
2	000-255	CW DIMMER 0%→100%
3	000-255	DIMMER 0%→100%
4	000-255	DIMMER FINE

5 Channel Mode:

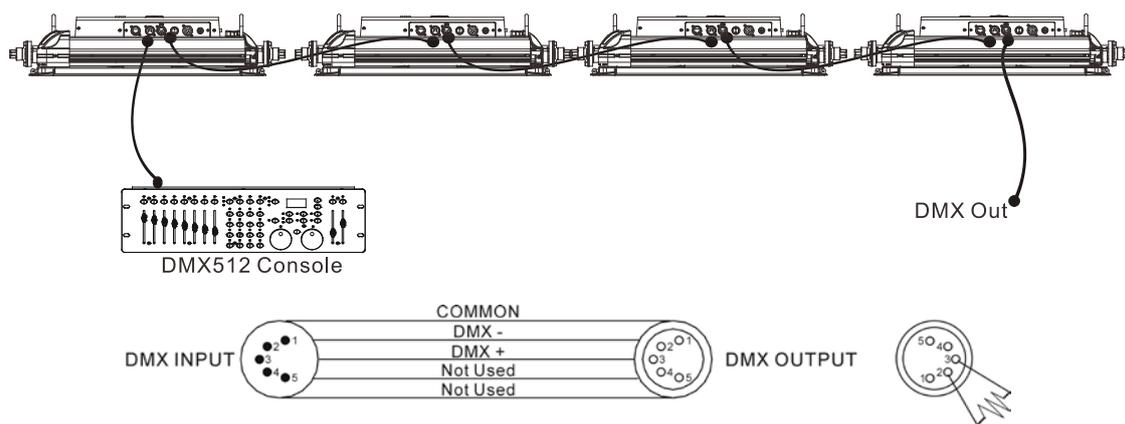
CHANNEL	VALUE	FUNCTIONS
1	000-255	WW DIMMER 0%→100%
2	000-255	CW DIMMER 0%→100%
3	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	STROBE Off On Strobe: Slow → Fast On Strobe Pulse: Fast → Slow On Random Strobe On
4	000-255	DIMMER 0%→100%
5	000-255	DIMMER FINE

6 Channel Mode:

CHANNEL	VALUE	FUNCTIONS
1	000-255	WW DIMMER 0%→100%
2	000-255	CW DIMMER 0%→100%
3	000 001-255	COLOR TEMPERATURE Off 5600K-3200K

4	000-031	STROBE Off On Strobe: Slow → Fast On Strobe Pulse: Fast → Slow On Random Strobe On
	032-063	
	064-095	
	096-127	
	128-159	
	160-191	
	192-223	
	224-255	
5	000-255	DIMMER 0%→100%
6	000-255	DIMMER FINE

4.4. DMX512 Connections



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.

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. Clean the internal optics at least every 30 days.

Innovation, Quality, Performance