

User Manual
Please read the instruction carefully before use

CONTENTS

1. Safety Instructions	2
2. Technical Specifications	4
3. Control Panel	6
4. Effect Wheels and Lamp	7
4.1 Effect Wheels	7
4.2 Light Source	7
4.3 Changing the Lamp	8
4.4 Lamp Replacement Warning	9
5. How To Set The Unit	10
5.1 Main Function	10
5.2 Home Position Adjustment	18
6. Control By Universal DMX Controller	20
6.1 DMX512 Connection	20
6.2 Address Setting	21
6.3 DMX512 Configuration	22
7. Error Information	26
8. Troubleshooting	31
9. Fixture Cleaning	32

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 to ensure that there is no transportation damage before using the unit.
- This product is suitable for wet locations. Do not immerse in water.
- 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 is blocked, otherwise the unit will be overheated.
- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- 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 operate this product at a lower or higher temperature.
- 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.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to 75℃. DO NOT touch the housing bare-handed during its operation.

- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 12 meters.
- Disconnect mains power before fuse/lamp replacement or servicing.
- Replace fuse/lamp 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 housing as there are no user serviceable parts inside.
- DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs
 yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please
 contact the nearest authorized technical assistance center if needed.
- Disconnect this product from its power source before servicing.
- DO use the original packaging if the device is to be transported.
- Turn off the power and allow approximately 15 minutes for the fixture to cool down before servicing.
- DO replace the bulb once it is damaged, deformed or life-expired.
- Avoid direct eye exposure to the light source while the product is on.
- Never touch the bulb with bare fingers, as it may be hot.
- DO NOT operate this product if you see damage on the housing, shields, or cables. Have the damaged parts replaced by an authorized technician at once.

Installation:

The fixture should be fixed on the clamp. Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always install a safety cable that can hold at least 12 times the weight of the fixture when installing.

DO install and operate by qualified operator. It must be installed in a place where there is out of the reach of people.

2. Technical Specifications

Power Voltage:
100-240V~ 50/60Hz
Power Consumption:
430W
Light Source:
PHILIPS MSD Platinum 12 R LL
Color Temperature:
7800K
Beam Angle:
2°
Movement:
Pan: 540°
Tilt: 270°
Pan/Tilt Resolution: 16-bit
Dimmer/Shutter:
Smooth dimming from 0-100%; outstanding strobe effect with variable speed
Color Wheel:
1 x color wheel with 14 colors plus open
Gobo Wheel:
1 x static gobo wheel with 16 gobos plus open
Control:
DMX Channel: 13/18 Channels
Control Mode: DMX512, RDM
Firmware Upgrade via DMX link or USB disk
Construction:
Display: LCD display
Data In/Out: 3-pin IP XLR (5-pin IP XLR is optional)
Power In/Out: Waterproof Power Connector in/out
Protection Rating: IP66

Features:

Lamp life: 6000 hours

Motorized focus

2 x prisms: 8-facet prism+24-facet prism, rotatable in both directions and overlayable

Outstanding color macro effect

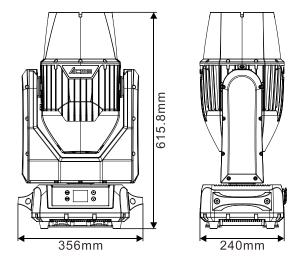
Independent frost effect

IP66 protection rating, can be used outdoors all year round

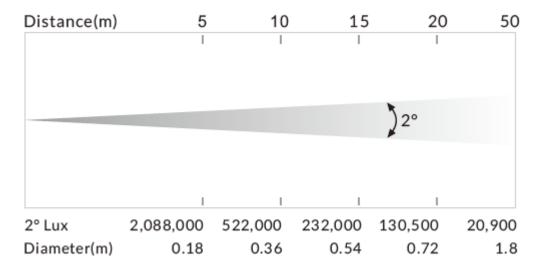
Dimension/Weight:

356x240x615.8mm, 21.8kgs

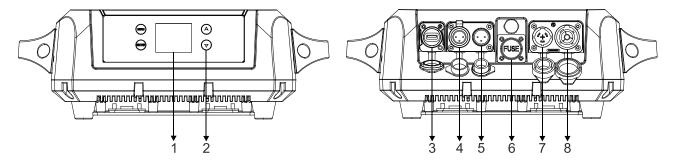
14"x9.4"x24.2"in, 48.1lbs



Photometric Diagram:



3. Control Panel



1. DISPLAY: To show the various menus and the selected function

2. Button:

MENU	To enter into move backward or leave the menu
▲ UP	To go backward to move up in the menu
▼ DOWN	To go forward to move down in the menu
ENTER	To perform the desired functions

3. FIRMWARE UPGRADE: Used to upgrade fixture's firmware

4. DMX OUT:

For DMX512 link, use 3-pin XLR cable to link the next units to output DMX signal (5-pin XLR is optional)

5. DMX IN:

For DMX512 link, use 3-pin XLR cable to link the unit and DMX controller to input DMX signal (5-pin XLR is optional)

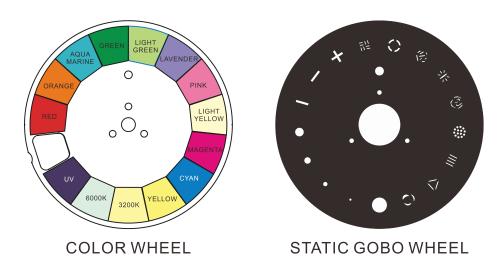
6. FUSE(T 10A): Protect the unit from damage of over current

7. POWERCON IN: To connect to supply power

8. POWERCON OUT: To connect to the next fixture

4. Effect Wheels and Lamp

4.1 Effect Wheels



DANGER!

Install the color wheel/gobo wheel with the device switched off only.

Unplug from mains before changing the color wheel/gobo wheel!

4.2 Light Source

PHILIPS MSD Platinum 12 R LL

- Because of its high internal pressure, there might be a risk that the Discharge lamp would explode during operation. The lamp emits intense UV radiation which is harmful to the eyes and skin. The high luminance of the arc can cause severe damage to the retina if you take a close look at the lamp.
- To protect the lamp, always turn off the lamp first (via control panel or DMX controller)
 and let the unit run at least five minutes to cool down before switching off the mains
 supply. Never handle the lamp or luminary when it is hot.
- Do not touch the bulb with bare hands. If this happens, clean the lamp with denatured alcohol and wipe it with a lint free cloth before installation.
- The lamp generates UV radiation. Never operate the lamp without appropriate shielding.
- When lighting up, the lamp operates at high pressure and there is a slight risk of arc tube rupture. The risk increases with age, temperature and improper handling of the lamp. Do not use the lamp longer than its lifespan.
- Make sure the lamp is located in the center of the reflector for the best projection.

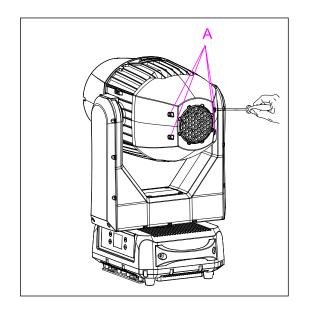
4.3 Changing the Lamp

Attention: The entire light path and lens of the luminaire must be thoroughly cleaned before changing the bulb.

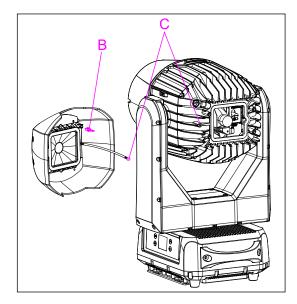
In the Work Mode, the lamp life is 1500 hours; when the Work Mode and the Sleep Mode are used alternately, the lamp life is between 1500 and 6000 hours according to the ratio of lamp use time; in the Sleep Mode, the lamp life is 6000 hours. Do not use the bulb beyond its lifetime, otherwise it may damage the luminaire. Check the lamp use time regularly. When the lamp replacement warning appears, we strongly recommend that you replace the bulb. After replacing the bulb, the use hours of the bulb must be cleared and reset.

To replace the lamp:

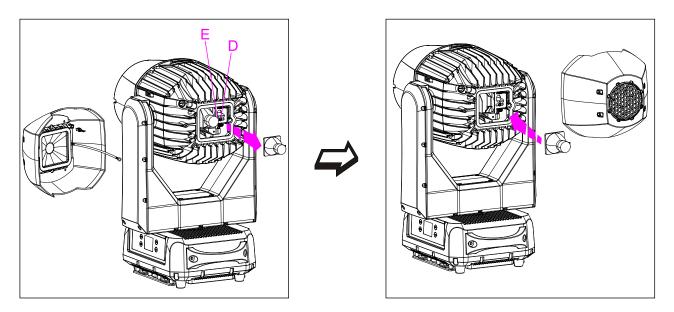
- 1. Ensure that the fixture is detached from power and has cooled down completely. It is a good idea to allow the fixture to run for 15 minutes after the lamp has been turned off, so that the cooling fans have time to works.
- 2. Loosen the screws on the head of the fixture and open the fixture head covers. Unplug the fan and loosen the screw that secures the safety cable.







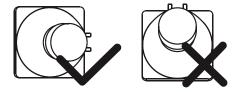
3. Loosen the screw that holds the lamp in place. Unplug the leads of the lamp and lift the lamp out of its recess, disconnect the lamp and connect a new lamp that must be the same type with the old one. And then place the new lamp into the lamp recess.



Finally reinstall the head cover, fastening it securely before reapplying power.

Warning:

The installing direction of lamp:



4.4 Lamp Replacement Warning

- When the lamp reaches 300 hours before its service time, the display will flash the message "Replace Lamp Soon" for up to 5 minutes. During this period, the fixture will still work normally.
- When the lamp reaches its service time, the display will flash the message "Replace Lamp Now" for up to 10 minutes. After 10 minutes, the fixture will return to normal operation.
- When the lamp is continuously used overtime, the display will flash the message "Lamp Timeout Use, Replace Lamp Now" for up to 10 minutes. After 10 minutes, the fixture will return to normal operation.

Attention: Damages caused by the failure to replace the bulb in time are not subject to warranty.

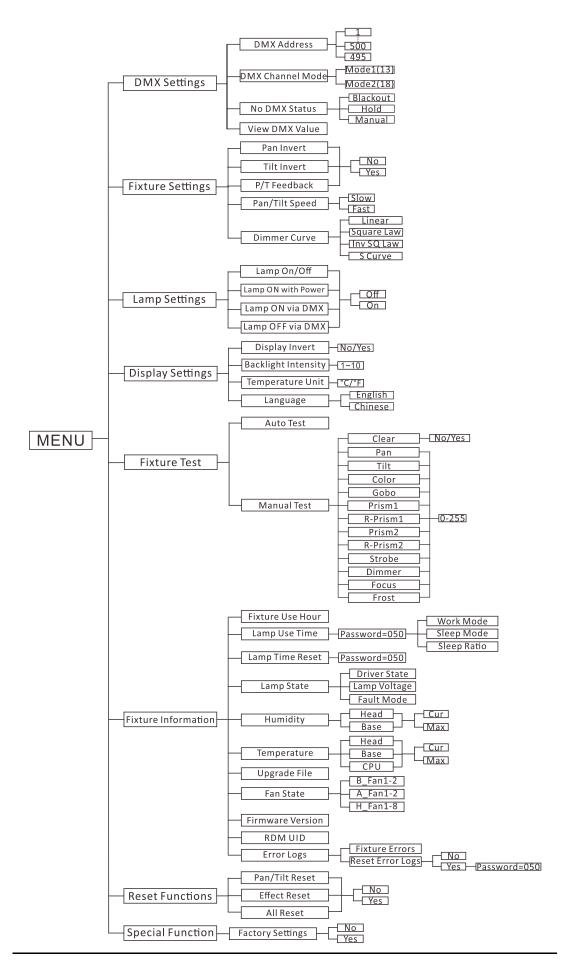
5. How To Set The Unit

5.1 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 pressing 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 screen will be automatically locked if there is no operation for a long time, and can be unlocked by long-pressing the MENU button.

The main functions are shown below:



DMX Settings

To select **DMX Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, **DMX Channel Mode**, **No DMX Status** 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 **500/495**, 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 **Mode1 (13)** or **Mode2 (18)**, 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.

No DMX Status

To select **No DMX Status**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Blackout**(fixture blacks out if DMX signal stops), **Hold**(fixture continues to obey the last command it received Via DMX if DMX signal stops) or **Manual**(the fixture will automatically read the DMX value in the "Manual Test" menu for operation after selecting this mode), 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 DMX channel value. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Settings

To select **Fixture Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan Invert, Tilt Invert, P/T Feedback, Pan/Tilt Speed** or **Dimmer Curve**.

Pan Invert

To select **Pan Invert**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No**(normal) or **Yes**(pan invert), 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.

Tilt Invert

To select **Tilt Invert**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No**(normal) or **Yes**(tilt invert), 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.

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 store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

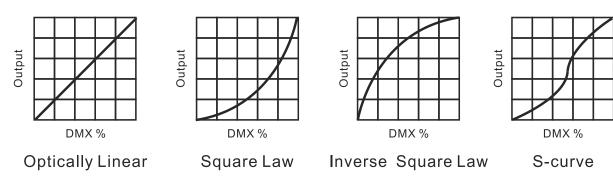
Pan/Tilt Speed

To select **Pan/Tilt Speed**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Slow** or **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.

Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to confirm. Use the **DOWN/UP** button to select **Linear**, **Square Law**, **Inv SQ Law** or **S Curve**, 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



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 finger at high levels.

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

Lamp Settings

To select Lamp Settings, press the ENTER button to confirm, use the UP/DOWN button to select Lamp On/Off, Lamp ON with Power, Lamp ON via DMX or Lamp OFF via DMX.

Lamp On/Off

To select **Lamp On/Off**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Off**(lamp off) or **On**(lamp on), 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.

Lamp ON with Power

To select **Lamp ON with Power**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Off**(Lamp off while power on) or **On**(Lamp on while power on), 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.

Lamp ON via DMX

To select **Lamp ON via DMX**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Off** or **On**, 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.

Lamp OFF via DMX

To select **Lamp OFF via DMX**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Off** or **On**, 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 Settings

To select **Display Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Display Invert**, **Backlight Intensity**, **Temperature Unit** or **Language**.

Display Invert

To select **Display Invert**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No**(normal display) or **Yes**(invert display), 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.

Backlight Intensity

To select **Backlight Intensity**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust backlight intensity from **001**(dark) to **010**(bright), 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.

Temperature Unit

To select **Temperature Unit**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select $^{\circ}$ C or $^{\circ}$ F, 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**.

Auto Test

Select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, color, gobo, prism, prism rotation, strobe, dimmer, focus, frost, etc. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

Select Manual Test, press the ENTER button to confirm, the present channel will show on the display, use the UP/DOWN button to select channel, press the ENTER button to confirm, then use the UP/DOWN button to adjust the value, press the ENTER button to store, the fixture will run as the channel value indicates. Press the MENU button back to the last menu or exit menu mode idling 30 seconds.

(The fixture will return to the previous DMX state after exiting Manual Test menu and the Manual Test parameters will be automatically saved after power off and restart.)

Fixture Information

To select **Fixture Information**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Fixture Use Hour**, **Lamp Use Time**, **Lamp Time Reset**, **Lamp State**, **Humidity**, **Temperature**, **Upgrade File**, **Fan State**, **Firmware Version**, **RDM UID** or **Error Logs**.

Fixture Use Hour

To select **Fixture Use Hour**, press the **ENTER** button to confirm, fixture use hour will show on the display, press the **MENU** button to exit.

Lamp Use Time

To select **Lamp Use Time**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to set the password **050**, press the **ENTER** button to confirm and lamp use time in **Work Mode**, **Sleep Mode** or **Sleep Ratio** can be viewed, press the **ENTER** button to confirm. Press the **MENU** button to exit.

Lamp Time Reset

To select **Lamp Time Reset**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to set the password **050**, press the **ENTER** button to reset the lamp time, press the **MENU** button to exit.

Lamp State

To select **Lamp State**, press the **ENTER** button to confirm, driver state, lamp voltage and fault mode will show on the display, , press the **MENU** button to exit.

Humidity

To select **Humidity**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Head** or **Base**, press the **ENTER** button to confirm, the current and max humidity of the fixture's head or base will show on the display, press the **MENU** button to exit.

Temperature

To select **Temperature**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Head, Base** or **CPU**, press the **ENTER** button to confirm, the current and max temperature of the fixture's head, base or CPU will show on the display, press the **MENU** button to exit.

Upgrade File

To select **Upgrade File**, press the **ENTER** button to confirm, fan state will show on the display, press the **MENU** button to exit.

Fan State

To select **Fan State**, press the **ENTER** button to confirm, fan state will show on the display, press the **MENU** button to exit.

Firmware Version

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

RDM UID

To select **RDM UID**, press the **ENTER** button to confirm, RDM UID will show on the display, press the **MENU** button back to exit.

Error Logs

Select Error Logs, press the ENTER button to confirm. Use the UP/DOWN button to select Fixture Errors or Reset Error Logs, press the ENTER button to store. Select Reset Error Logs, press the ENTER button to confirm. Use the UP/DOWN button to select No or Yes, press the ENTER button to store. Select Yes, press the ENTER button to confirm. Use the UP/DOWN button to set the password 050, 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.

Reset Functions

To select **Reset Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan/Tilt Reset**, **Effect Reset** or **All Reset**.

Pan/Tilt Reset

To select **Pan/Tilt Reset**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No**(normal) 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.

Effect Reset

To select **Effect Reset**, 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 effect to their home positions), press the **ENTER** button to store. Press the **MENU** button to exit.

All Reset

To select **All Reset**, 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 the **MENU** button to exit.

Special Function

Factory Settings

To select **Factory Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No**(normal) or **Yes**(the fixture will reset to factory settings), press **ENTER** button to store. Press the **MENU** button to exit.

RDM FUNCTIONS

Select the MANUFACTURER menu to display the manufacturer of the fixture.

Select the SOFTWARE VERSION menu and the program version number of the fixture will be displayed.

Select the DMX START ADDRESS menu to change the DMX 512 address (001-512).

Select the DEVICE MODEL DESCRIPTION menu to display the model of the fixture.

Select the DEVICE LABEL menu to change the model of the fixture.

Select the DMX PERSONALITY menu to set the channel mode of the fixture (13/18 channel).

Select the DMX PERSONALITY DESCRIPTION menu to display the current channel mode of the fixture.

Select the DEVICE HOURS menu to display the running time of the fixture.

Select the LAMP HOURS menu to display the running time of the lamp.

Select the LAMP STATE menu to turn on/off the lamp.

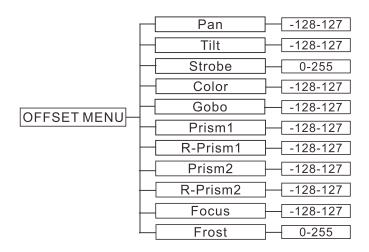
Select the PAN INVERT menu and the fixture will run the pan invert mode.

Select the TILT INVERT menu and the fixture will run the tilt invert mode.

Select the RESET DEVICE menu, the WARM RESET/COLD RESET option will be displayed. When WARM RESET is selected, the fixture will start a warm reset, and exit when COLD RESET is selected.

5.2 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 pressing 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.



Pan

Enter offset mode, select **Pan**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Tilt

Enter offset mode, select **Tilt**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Strobe

Enter offset mode, select **Strobe**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Color

Enter offset mode, select **Color**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo

Enter offset mode, select **Gobo**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Prism1

Enter offset mode, select **Prism1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

R-Prism1

Enter offset mode, select **R-Prism1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Prism2

Enter offset mode, select **Prism2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

R-Prism2

Enter offset mode, select **R-Prism2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Focus

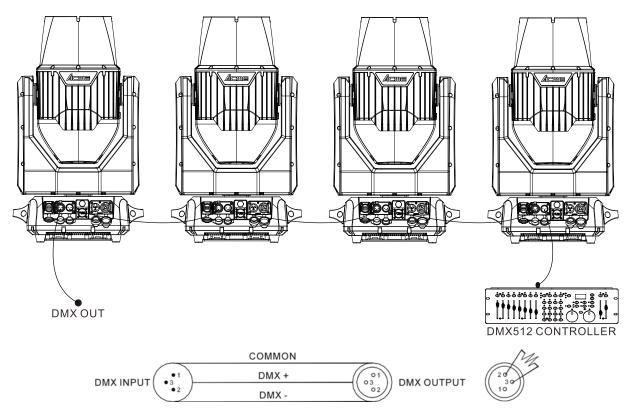
Enter offset mode, select **Focus**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Frost

Enter offset mode, select **Frost**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

6. Control By Universal DMX Controller

6.1 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 can only be used in series and cannot be connected in parallel. 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.

6.2 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 Settings, 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 in 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
13 channels	1	14	27	40
18 channels	1	19	37	55

6.3 DMX512 Configuration

Please control the fixture by referring to the configurations below

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.

13 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1		PAN
1	000-255	0°→540°
2	000-255	PAN FINE
3		TILT
3	000-255	0°→270°
4	000-255	TILT FINE
5		PAN/TILT SPEED
,	000-255	Fast to Slow
		COLOR
	000-007	Open
	008-011	Color 1
	012-015	Color 2
	016-019	Color 3
	020-023	Color 4
	024-027	Color 5
	028-031	Color 6
	032-035	Color 7
6	036-039	Color 8
8	040-043	Color 9
	044-047	Color 10
	048-051	Color 11
	052-055	Color 12
	056-059	Color 13
	060-063	Color 14
	064-127	Color Wheel Indexing
	128-189	Clockwise Rotation, Fast to Slow
	190-193	Stop
	194-255	Counter-Clockwise Rotation, Slow to Fast
		STROBE
	000-007	Close
7	008-015	Open
	016-131	Strobe from Slow to Fast
	132-167	Fast Close Slow Open

	168-203	Fast Open Slow Close
	204-239	Pulsation from Slow to Fast
	240-247	Random Strobe
	248-255	Open
8		DIMMER
O	000-255	0%→100%
9	000-255	DIMMER FINE
10		FOCUS
10	000-255	0%→100%
11	000-255	FOCUS FINE
		FROST
12	000-007	Close
	008-255	Open
		FUNCTION
	000-129	No Function
	130-139	Lamp On
	140-149	Reset XY
13	150-159	Reset Effect
13	160-199	No Function
	200-209	Reset All
	210-229	No Function
	230-239	Lamp Off
	240-255	No Function

18 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	000 255	PAN
	000-255	0°→540°
2	000-255	PAN FINE
3		TILT
.	000-255	0°→270°
4	000-255	TILT FINE
5		PAN/TILT SPEED
3	000-255	Fast to Slow
		COLOR
	000-007	Open
6	008-011	Color 1
0	012-015	Color 2
	016-019	Color 3
	020-023	Color 4

024-027 Color 5 028-031 Color 6 032-035 Color 7 036-039 Color 8 040-043 Color 9 044-047 Color 10 048-051 Color 11 052-055 Color 12 056-059 Color 13 060-063 Color 14 064-127 Color Wheel Indexing 128-189 Clockwise Rotation, Fast to Slow 190-193 Stop 194-255 Counter-Clockwise Rotation, Slow to Fast GOBO 000-007 Open 008-010 Gobo 1 011-013 Gobo 2 014-016 Gobo 3 017-019 Gobo 4 020-022 Gobo 5 023-025 Gobo 6 026-028 Gobo 7 029-031 Gobo 8 032-034 Gobo 9 035-037 Gobo 10 038-040 Gobo 11 041-043 Gobo 12 044-046 Gobo 13 047-049 Gobo 14 041-043 Gobo 15 053-063 Gobo 16 064-067 Gobot Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 6 Shaking, Slow to Fast 088-091 Gobo 7 Shaking, Slow to Fast
032-035
036-039
040-043 044-047 048-051 048-051 052-055 Color 12 056-059 Color 13 060-063 Color Wheel Indexing 128-189 190-193 194-255 Counter-Clockwise Rotation, Slow to Fast 000-007 Open 008-010 001-013 Gobo 2 014-016 Gobo 3 017-019 Gobo 4 020-022 Gobo 5 026-028 029-031 Gobo 2 029-031 Gobo 1 031-043 Gobo 2 040-044 O41-043 Gobo 1 041-043 Gobo 12 044-046 Gobo 13 047-049 Gobo 14 041-043 Gobo 15 O53-063 Gobo 15 Gobo 15 Gobo 15 Gobo 15 Gobo 16 O47-049 Gobo 11 O41-043 Gobo 12 O44-046 Gobo 13 O47-049 Gobo 14 Gobo 15 Gobo 15 Gobo 16 Gobo 16 O64-067 Gobo 15 Gobo 15 Gobo 16 Gobo 16 Gobo 17 Gobo 18 Gobo 19
044-047 Color 10 048-051 Color 11 052-055 Color 12 056-059 Color 13 060-063 Color 14 064-127 Color Wheel Indexing 128-189 Clockwise Rotation, Fast to Slow 190-193 Stop 194-255 Counter-Clockwise Rotation, Slow to Fast GOBO 000-007 Open 008-010 Gobo 1 011-013 Gobo 2 014-016 Gobo 3 017-019 Gobo 4 020-022 Gobo 5 023-025 Gobo 6 026-028 Gobo 7 029-031 Gobo 8 032-034 Gobo 9 035-037 Gobo 10 038-040 Gobo 11 041-043 Gobo 12 044-046 Gobo 13 047-049 Gobo 14 047-049 Gobo 14 047-049 Gobo 15 053-063 Gobo 16 064-067 Gobo 15 Shaking, Slow to Fast 068-071 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast
048-051 052-055 055-059 060-063 060-063 064-127 Color Wheel Indexing 128-189 190-193 194-255 Counter-Clockwise Rotation, Fast to Slow 190-193 194-255 Counter-Clockwise Rotation, Slow to Fast GOBO 000-007 Open 008-010 011-013 Gobo 2 014-016 Gobo 3 017-019 Gobo 4 020-022 Gobo 5 026-028 Gobo 6 026-028 Gobo 7 029-031 Gobo 8 035-037 Gobo 10 038-040 Gobo 11 041-043 Gobo 12 044-046 Gobo 13 Gobo 14 041-043 Gobo 15 O35-037 Gobo 16 O47-049 Gobo 15 O50-052 Gobo 15 Gobo 16 O64-067 Gobo 15 Gobo 16 O64-067 Gobo 15 Gobo 16 O64-067 Gobo 15 Gobo 2 Shaking, Slow to Fast O76-079 Gobo 4 Shaking, Slow to Fast O80-083 Gobo 5 Shaking, Slow to Fast O80-083 Gobo 5 Shaking, Slow to Fast O80-083 Gobo 5 Shaking, Slow to Fast
052-055
O56-059
O60-063
Color Wheel Indexing 128-189 Clockwise Rotation, Fast to Slow 190-193 Stop 194-255 Counter-Clockwise Rotation, Slow to Fast GOBO Open Op
128-189
190-193
190-193
GOBO
GOBO
000-007 008-010 008-010 011-013 Gobo 1 011-013 Gobo 2 014-016 Gobo 3 017-019 Gobo 4 020-022 Gobo 5 023-025 023-025 Gobo 6 026-028 Gobo 7 029-031 Gobo 8 032-034 Gobo 9 035-037 Gobo 10 041-043 Gobo 11 041-043 Gobo 12 044-046 Gobo 13 047-049 Gobo 14 Gobo 15 053-063 Gobo 16 064-067 Gobo 15 Gobo 15 Gobo 16 064-067 Gobo 15 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 076-079 Gobo 5 Shaking, Slow to Fast 076-079 Gobo 5 Shaking, Slow to Fast 076-079 Gobo 6 Shaking, Slow to Fast
008-010 011-013 014-016 017-019 020-022 023-025 026-028 029-031 032-034 035-037 038-040 041-043 041-043 047-049 050-052 053-063 064-067 068-071 072-075 076-079 080-083 080-083 080-083 0017-019 060b 0 1
011-013 014-016 017-019 020-022 023-025 023-025 029-031 032-034 032-034 035-037 038-040 041-043 044-046 041-043 047-049 050-052 053-063 064-067 068-071 072-075 076-079 080-083 084-087 Gobo 1 Gobo 2 Gobo 2 Gobo 3 Gobo 6 Gobo 3 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 15 Gobo 16 Gobo 15 Gobo 16 Gobo 15 Gobo 16 Gobo 17 Gobo 2 Shaking, Slow to Fast Gobo 3 Shaking, Slow to Fast Gobo 4 Shaking, Slow to Fast Gobo 5 Shaking, Slow to Fast Gobo 5 Shaking, Slow to Fast Gobo 6 Shaking, Slow to Fast
017-019 020-022 023-025 023-025 026-028 026-028 032-031 06bo 8 032-034 035-037 038-040 041-043 041-043 044-046 050-052 053-063 064-067 068-071 068-071 072-075 076-079 080-083 084-087 Gobo 1 Gobo 5 Gobo 6 Gobo 5 Gobo 6 Gobo 1 Gobo 2 Gobo 3 Gobo 5 Gobo 6 G
020-022 Gobo 5 023-025 Gobo 6 026-028 Gobo 7 029-031 Gobo 8 032-034 Gobo 9 035-037 Gobo 10 038-040 Gobo 11 041-043 Gobo 12 044-046 Gobo 13 047-049 Gobo 14 050-052 Gobo 15 053-063 Gobo 16 064-067 Gobo 1 Shaking, Slow to Fast 068-071 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
023-025 026-028 026-028 029-031 029-031 Gobo 8 032-034 Gobo 9 035-037 Gobo 10 038-040 Gobo 11 041-043 Gobo 12 044-046 Gobo 13 047-049 Gobo 15 053-063 Gobo 15 064-067 Gobo 1 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast
026-028 Gobo 7 029-031 Gobo 8 032-034 Gobo 9 035-037 Gobo 10 038-040 Gobo 11 041-043 Gobo 12 044-046 Gobo 13 047-049 Gobo 14 050-052 Gobo 15 053-063 Gobo 16 064-067 Gobo1 Shaking, Slow to Fast 068-071 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
029-031
032-034 035-037 038-040 041-043 044-046 047-049 050-052 053-063 064-067 068-071 072-075 076-079 080-083 084-087 Gobo 10 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 15 Gobo 16 Gobo 1 Shaking, Slow to Fast Gobo 3 Shaking, Slow to Fast Gobo 3 Shaking, Slow to Fast
032-034 035-037 038-040 041-043 044-046 047-049 050-052 053-063 064-067 068-071 072-075 076-079 080-083 084-087 Gobo 10 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 15 Gobo 16 Gobo 1 Shaking, Slow to Fast Gobo 3 Shaking, Slow to Fast Gobo 3 Shaking, Slow to Fast
035-037 038-040 041-043 044-046 047-049 Gobo 15 053-063 064-067 068-071 072-075 076-079 080-083 084-087 Gobo 10 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 15 Gobo 16 Gobo 1 Shaking, Slow to Fast Gobo 2 Shaking, Slow to Fast Gobo 3 Shaking, Slow to Fast Gobo 4 Shaking, Slow to Fast
038-040 041-043 044-046 047-049 050-052 053-063 064-067 068-071 072-075 076-079 080-083 084-087 O38-040 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 16 Gobo 16 Gobo 15 Gobo 2 Shaking, Slow to Fast Gobo 3 Shaking, Slow to Fast Gobo 4 Shaking, Slow to Fast Gobo 5 Shaking, Slow to Fast
7 044-046 047-049 Gobo 14 7 050-052 Gobo 15 053-063 Gobo 16 064-067 Gobo 1 Shaking, Slow to Fast 068-071 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
7 047-049 Gobo 14 050-052 Gobo 15 053-063 Gobo 16 064-067 Gobo 1 Shaking, Slow to Fast 068-071 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
7 047-049 Gobo 14 050-052 Gobo 15 053-063 Gobo 16 064-067 Gobo 1 Shaking, Slow to Fast 068-071 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
7 050-052 Gobo 15 053-063 Gobo 16 064-067 Gobo 1 Shaking, Slow to Fast 068-071 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
053-063 064-067 Gobo 1 Shaking, Slow to Fast 068-071 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
064-067Gobo1 Shaking, Slow to Fast068-071Gobo 2 Shaking, Slow to Fast072-075Gobo 3 Shaking, Slow to Fast076-079Gobo 4 Shaking, Slow to Fast080-083Gobo 5 Shaking, Slow to Fast084-087Gobo 6 Shaking, Slow to Fast
068-071 Gobo 2 Shaking, Slow to Fast 072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
072-075 Gobo 3 Shaking, Slow to Fast 076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
076-079 Gobo 4 Shaking, Slow to Fast 080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
080-083 Gobo 5 Shaking, Slow to Fast 084-087 Gobo 6 Shaking, Slow to Fast
084-087 Gobo 6 Shaking, Slow to Fast
——————————————————————————————————————
5,
092-095 Gobo 8 Shaking, Slow to Fast
096-099 Gobo 9 Shaking, Slow to Fast
100-103 Gobo 10 Shaking, Slow to Fast
104-107 Gobo 11 Shaking, Slow to Fast
108-111 Gobo 12 Shaking, Slow to Fast
112-115 Gobo 13 Shaking, Slow to Fast
116-119 Gobo 14 Shaking, Slow to Fast
120-123 Gobo 15 Shaking, Slow to Fast

	424 427	
	124-127	Gobo 16 Shaking, Slow to Fast
	128-189	Clockwise Rotation, Fast to Slow
	190-193	Stop
	194-255	Counter-Clockwise Rotation, Slow to Fast
		PRISM 1(8-facet prism)
8	000-007	Close
	008-255	Open
		R-PRISM1
	000-127	0%→100%
9	128-189	Counter-Clockwise Rotation, Fast to Slow
	190-193	Stop
	194-255	Clockwise Rotation, Slow to Fast
		PRISM 2(24-facet prism)
10	000-007	Close
10	008-255	Open
	000 233	R-PRISM2
	000 127	R-PRISIVI2 0%→100%
44	000-127	
11	128-189	Clockwise Rotation, Fast to Slow
	190-193	Stop
	194-255	Counter-Clockwise Rotation, Slow to Fast
		STROBE
	000-007	Close
	008-015	Open
	016-131	Strobe from Slow to Fast
12	132-167	Fast Close Slow Open
	168-203	Fast Open Slow Close
	204-239	Pulsation from Slow to Fast
	240-247	Random Strobe
	248-255	Open
42		DIMMER
13	000-255	0%→100%
14	000-255	DIMMER FINE
4.5		FOCUS
15	000-255	0%→100%
16	000-255	FOCUS FINE
		FROST
17	000-007	Close
	008-255	Open
		FUNCTION
	000-129	No Function
	130-139	Lamp On
18	140-149	Reset XY
	150-159	Reset Effect
	160-199	No Function

Reset All	200-209
No Function	210-229
Lamp Off	230-239
No Function	240-255
•	

7. Error Information

Error codes are shown continuously in the display when the fixture fails and they will not disappear until the fixture is repaired.

1. CPU-B/C/D/E/F/G/H Error

Check whether the 485 (DATA) leads on the PCB board are installed in place or disconnected.

Check whether the related 485 (DATA) signal circuit on the PCB board is damaged.

2. Pan Reset Error

Check whether the position of the pan where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the pan operating range.

Check whether the Hall element on the pan is damaged.

Check whether the lead connecting the Hall element on the pan and the PCB board is in poor contact or disconnected.

Check whether the motor on the pan is damaged.

Check whether the related circuit of the motor drive board on the pan is damage.

3. Pan Encode Error

Check whether the encoder on the pan is damaged.

Check whether the lead connecting the encoder on the pan and the PCB board is in poor contact or disconnected.

4. Tilt Reset Error

Check whether the position of the tilt where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the tilt operating range.

Check whether the Hall element on the tilt is damaged.

Check whether the lead connecting the Hall element on the tilt and the PCB board is in poor contact or disconnected.

Check whether the motor on the tilt is damaged.

Check whether the related circuit of the motor drive board on the tilt is damage.

5. Tilt Encode Error

Check whether the encoder on the tilt is damaged.

Check whether the lead connecting the encoder on the tilt and the PCB board is in poor contact or disconnected.

6. Color Reset Error

Check whether the position of the color wheel where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the color wheel operating range.

Check whether the Hall element on the color wheel is damaged.

Check whether the lead connecting the Hall element on the color wheel and the PCB board is in poor contact or disconnected.

Check whether the motor on the color wheel is damaged.

Check whether the related circuit of the motor drive board on the color wheel is damage.

7. Gobo Reset Error

Check whether the position of the gobo wheel where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the gobo wheel operating range.

Check whether the Hall element on the gobo wheel is damaged.

Check whether the lead connecting the Hall element on the gobo wheel and the PCB board is in poor contact or disconnected.

Check whether the motor on the gobo wheel is damaged.

Check whether the related circuit of the motor drive board on the gobo wheel is damage.

8. Prism1/2 Reset Error

Check whether the position of the prism1/2 where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the prism1/2 operating range.

Check whether the Hall element on the prism1/2 is damaged.

Check whether the lead connecting the Hall element on the prism1/2 and the PCB board is in poor contact or disconnected.

Check whether the motor on the prism1/2 is damaged.

Check whether the related circuit of the motor drive board on the prism1/2 is damage.

9. R-Prism1/2 Reset Error

Check whether the position of the prism1/2 where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the prism1/2 operating range.

Check whether the Hall element on the prism1/2 is damaged.

Check whether the lead connecting the Hall element on the prism1/2 and the PCB board is in poor contact or disconnected.

Check whether the motor on the prism1/2 is damaged.

Check whether the related circuit of the motor drive board on the prism1/2 is damage.

10. Focus Reset Error

Check whether the position of the focus where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the focus operating range.

Check whether the Hall element on the focus is damaged.

Check whether the lead connecting the Hall element on the focus and the PCB board is in poor contact or disconnected.

Check whether the motor on the focus is damaged.

Check whether the related circuit of the motor drive board on the focus is damage.

11. G Sensor Error

Check whether the gravity sensor on board E is damaged.

12. Ballast Comm Err

Check whether the output voltage of the ballast reaches 380V.

Check whether the ballast is damaged.

Check whether the telecommunication lines are installed in place or disconnected.

13. Lamp Hot Power Off

Check whether the temperature switch of the lamp is off.

Check whether the fans are still running properly.

14. Lamp On Error

Turn on the lamp four times. If it still fails, there could be a problem with the software.

15. Lamp volt. too high

Check if the lamp is damaged.

Check if the lamp has reached its lifetime.

Check if the ballast is damaged.

16. Ballast Temp. high

Check whether the ambient temperature exceeds 45 $^{\circ}$ C.

Check if the ballast fan speed is too slow.

Check if the ballast is damaged.

17. Lamp Maintenance

Check lamp use time and replace the lamp in time.

18. Head Humidity Error

Check whether the humidity sensor is faulty

Check whether the lead connecting the humidity sensor is installed in place or disconnected.

19. Base Humidity Error

Check whether the humidity sensor is faulty

Check whether the lead connecting the humidity sensor is installed in place or disconnected.

20. Head Humidity Too High

Disassemble the housing of the fixture to dehumidify.

21. Base Humidity Too High

Disassemble the housing of the fixture to dehumidify.

22. HeadFan1/2/3/4/5/6/7/8 Start Err

Check whether the fan is not running.

Check whether the fan leads are installed in place or disconnected.

Check whether the fan is damaged.

Check whether there are obstacles in the fan operating range.

23. HeadFan1/2/3/4/5/6/7/8 Stop Err

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

24. HeadFan1/2/3/4/5/6/7/8 Too Low

Check whether the fan is out of order.

Check whether there are obstacles in the fan operating range.

25. HeadFan1/2/3/4/5/6/7/8 Too High

Check whether the fan is out of order.

Check whether the fan circuit on the motherboard breaks down.

26. BaseFan1/2 Start Err

Check whether the fan is not running.

Check whether the fan leads are installed in place or disconnected.

Check whether the fan is damaged.

Check whether there are obstacles in the fan operating range.

27. BaseFan1/2 Stop Err

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

28. BaseFan1/2 Too Low

Check whether the fan is out of order.

Check whether there are obstacles in the fan operating range.

29. BaseFan1/2 Too High

Check whether the fan is out of order.

Check whether the fan circuit on the motherboard breaks down.

30. ArmFan1/2 Start Err

Check whether the fan is not running.

Check whether the fan leads are installed in place or disconnected.

Check whether the fan is damaged.

Check whether there are obstacles in the fan operating range.

21. ArmFan1/2 Stop Err

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

32. ArmFan1/2 Too Low

Check whether the fan is out of order.

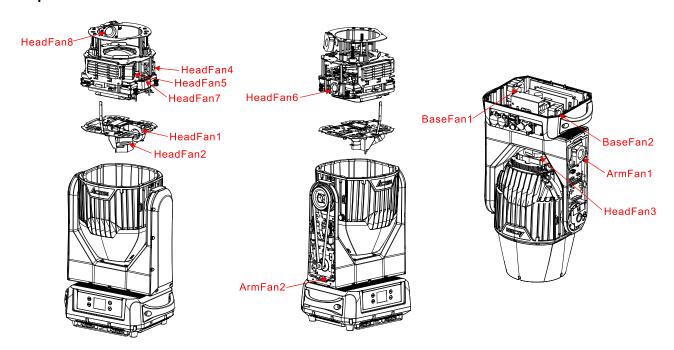
Check whether there are obstacles in the fan operating range.

33. ArmFan1/2 Too High

Check whether the fan is out of order.

Check whether the fan circuit on the motherboard breaks down.

The position of each fan of the fixture:



8. Troubleshooting

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

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

- 1. Check the connected power and main fuse.
- 2. Measure the voltage.
- 3. Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

- 1. Check whether the DMX connectors and the DMX cables are connected correctly.
- 2. Check whether the DMX address is correctly set.
- 3. If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.
- 4. Try it with another DMX controller.
- 5. Check whether the DMX cables run near or alongside to the high-voltage cables, which may damage or interfere with the signal circuit.

C. One of the channels is not working well

- 1. The stepper motor might be damaged or the cable connected to the PCB might be broken.
- 2. The motor's drive IC on the PCB might be out of condition.

D. The lamp is cutting out intermittently

- 1. The lamp is not working well. Check whether the voltage is too high or too low.
- 2. The internal temperature may be too high. Replace the cooling fan if necessary.

9. Fixture Cleaning

It is absolutely essential that the fixture is kept clean to ensure the maximum light-output and allow the fixture to function reliably throughout its life. The fixture must be cleaned regularly to avoid dust, dirt and smoke-fluid residues building up on or within the fixture. The cleaning frequency depends on the application environment. Clean the fixture immediately if the dust enters it to avoid damage to the optical lens due to excessive dust.

- A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
- Always dry the parts carefully.
- Clean the external optical lens at least every 20 days.

Innovation, Quality, Performance