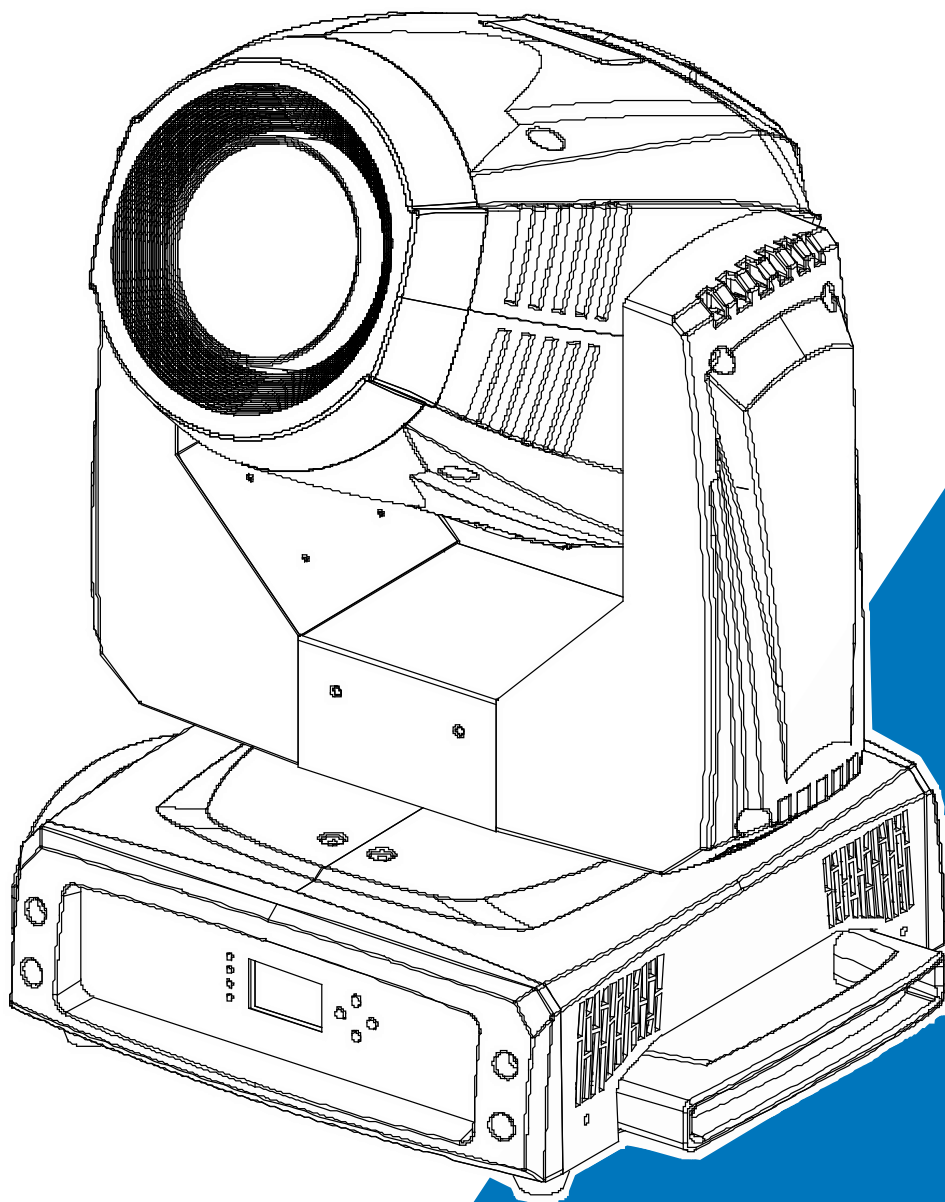




SABER

— *BEAM SPOT*



User Manual

Please read the instruction carefully before use

CONTENTS

| | |
|--|----|
| 1. Safety Instructions | 2 |
| 2. Technical Specifications | 4 |
| 3. Control Panel | 6 |
| 4. Color/Gobo and Lamp..... | 7 |
| 4.1 Color/Gobo | 7 |
| 4.2 Light Source | 7 |
| 4.3 Change The Lamp..... | 8 |
| 4.4 Lamp Replacement Warning | 9 |
| 5. How To Set The Unit..... | 9 |
| 5.1 Main Function..... | 9 |
| 5.2 Home Position Adjustment | 16 |
| 6. Control By Universal DMX Controller | 19 |
| 6.1 DMX512 Connection | 19 |
| 6.2 Address Setting | 20 |
| 6.3 DMX512 Configuration..... | 20 |
| 7. Troubleshooting | 27 |
| 8. Fixture Cleaning | 27 |

1. Safety Instructions



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

WARNING

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

Important:

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

- Unpack and check carefully that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots are blocked, otherwise the unit will be overheated.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0°C. Maximum ambient temperature TA: 40°C.
- DO NOT connect the device to any dimmer pack.
- During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.
- Make sure there are no flammable materials close to the unit while operating to avoid fire hazard.
- Examine the power wires carefully; replace them immediately if there is any damage.
- Unit's surface temperature may reach up to 90°C. DO NOT touch the housing bare-handed during its operation.
- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happens, cut

off the mains power immediately.

- DO NOT operate in dirty or dusty environment, do clean fixtures regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together twist other cables.
- The minimum distance between light output and the illuminated surface must be more than 12 meters.
- Disconnect mains power before fuse/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 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.
- Hot lamp explosion hazard. DO NOT open the unit within 15 minutes after switching off.
- DO replace the bulb once it is damaged, deformed or life-expired.
- DO NOT look directly at the light while the bulb is on.
- Never touch bulb with bare fingers, as it is very hot after using.
- 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:

520W

Light Source:

OSRAM SIRIUS HRI 330W

Color Temperature:

8000K

Beam Angle:

1°/3°

Spot Angle:

12°→15°(with zoom lens 1)

12°→22°(with zoom lens 2)

12°→27°(with zoom lens 1&2)

Dimmer/Shutter:

0~100% smooth dimming, various strobe speeds

Color wheel:

14 fixed colors plus open with rainbow effect

Gobo wheel:

1 Static gobo wheel with 15 gobos plus open

1 Rotating gobo wheel with 6 gobos plus frost filter and open

Movement:

Pan: 540°

Tilt: 270°

Pan/Tilt Resolution: 16bit

Control:

DMX Channel: 17/20 Channels

Control Mode: DMX512

Firmware Upgrade: Update via DMX link

Construction:

Display: LCD display

Date In/Out: 3-pin/5-pin XLR

Power In/Out: Power cord/Power Connector out

Protection Rating: IP20

Features:

8 facet prism+ 24 facet prism, both of them can rotate in both directions and overlay each other

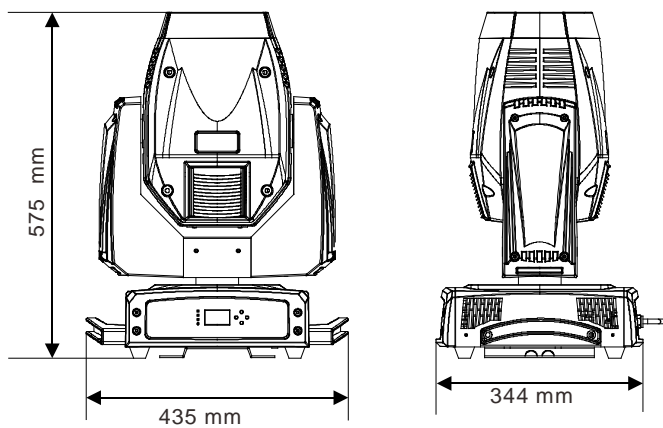
Outstanding color macro effect

Integrated two features: beam and spot

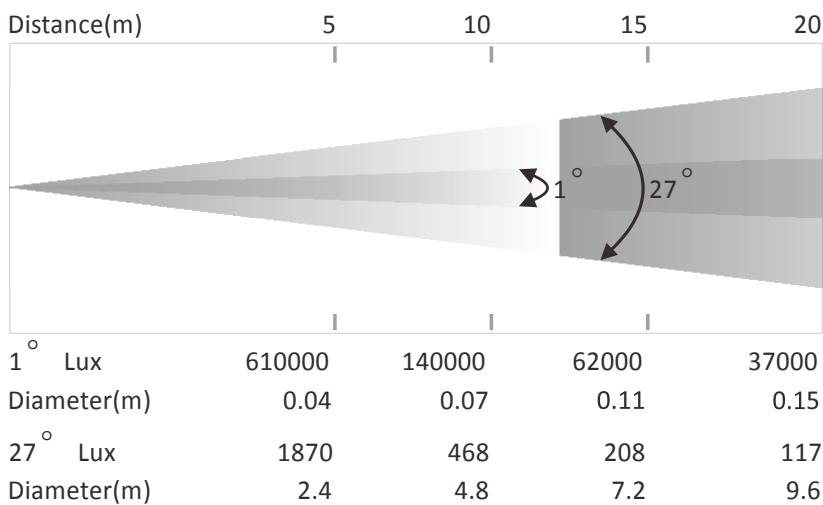
Dimension/Weight:

435x344x575mm, 20.5kgs

17.1"x13.5"x22.6" in, 45.2lbs

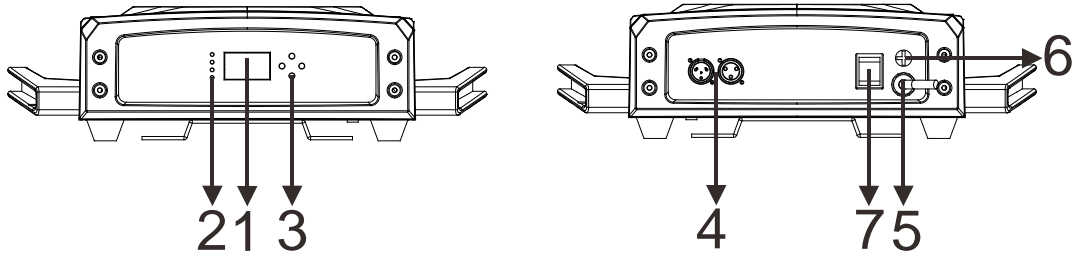


Photometrics Diagram

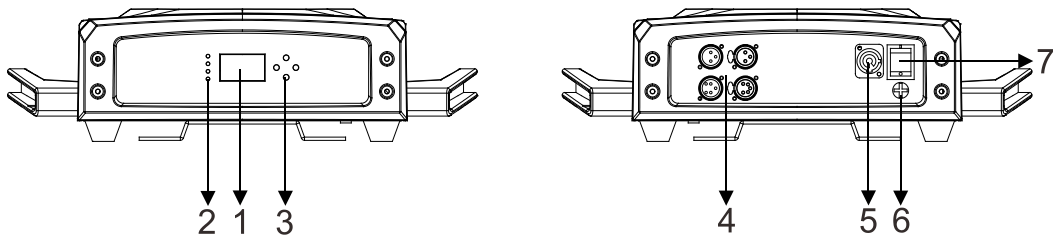


3. Control Panel

Wire Version:



PowerCon Version:



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

2. LED:

| | | |
|-----------------|----|-----------------------------|
| POWER | On | Power on |
| BATTERY | On | Battery Status |
| WIRELESS | On | Receive the wireless signal |
| DMX | On | DMX input present |

3. 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 |

4. DMX IN/OUT: For DMX512 operation, use 3-pin XLR plug cable to link the units together

4. DMX IN/OUT (PowerCon Version):

For DMX512 operation, use 3/5-pin XLR plug cable to link the units together

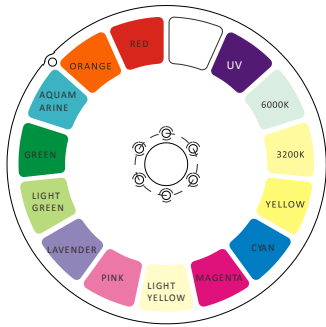
5. Power: To connect to supply power

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

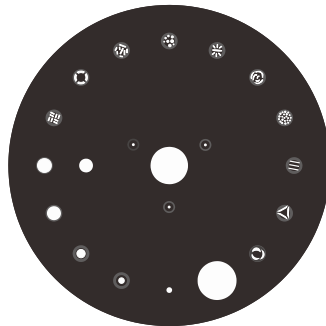
7. POWER SWITCH: Turns on/off the power

4. Color/Gobo and Lamp

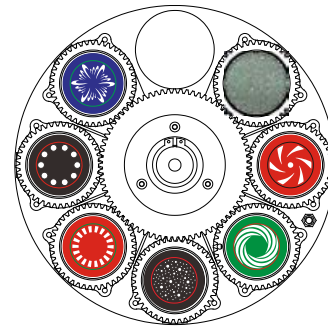
4.1 Color/Gobo



Color Wheel



Static Gobo Wheel



Rotating Gobo Wheel

DANGER!

***Install the gobos with the device switched off only.
Unplug from mains before changing gobos!***

CAUTION: *Never unscrew the screws of the rotating gobo as the ball bearing will otherwise be opened!*

4.2 Light Source

OSRAM SIRIUS HRI 330W

- 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.

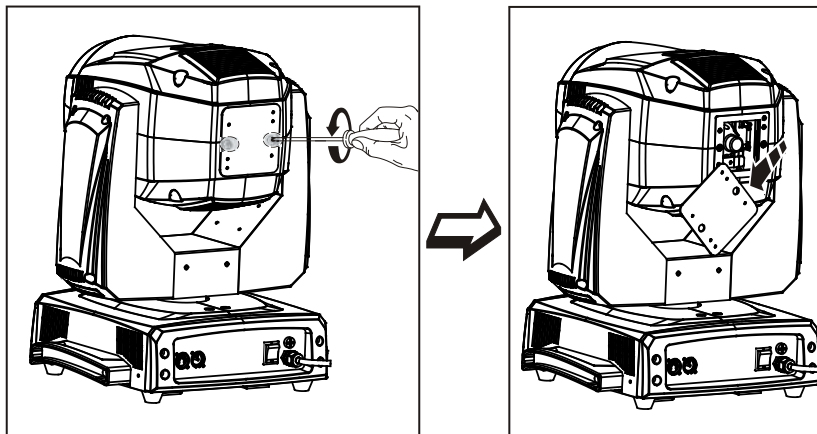
4.3 Change The Lamp

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

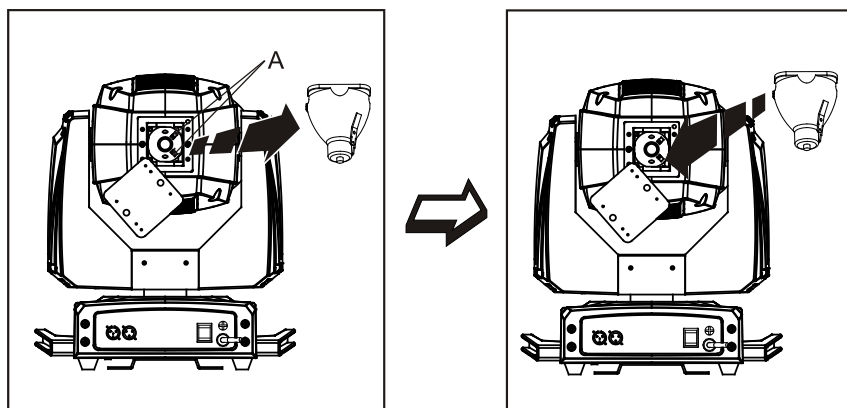
Do not use this lamp more than 1500 hours, Using the lamp any longer than its set life could seriously damage your unit. Periodically checking the lamp running time, when the lamp reaches the 1500 hour mark, or close to it, we strongly suggest you switch the lamp out. Clear the lamp time after you have replaced the lamp.

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 10 minutes after the lamp has been turned off, so that the cooling fans have time to work.
2. Loosen the two screws and open the fixture head covers.



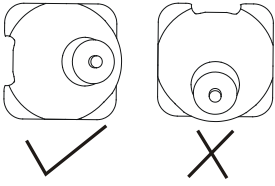
3. Lift the lamp out of its recess, disconnect the lamp and connect a new lamp that must be the same type with the old one. And then place the new lamp into the lamp recess.



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 1200 hours of usage, 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 1500 hours of usage, 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.

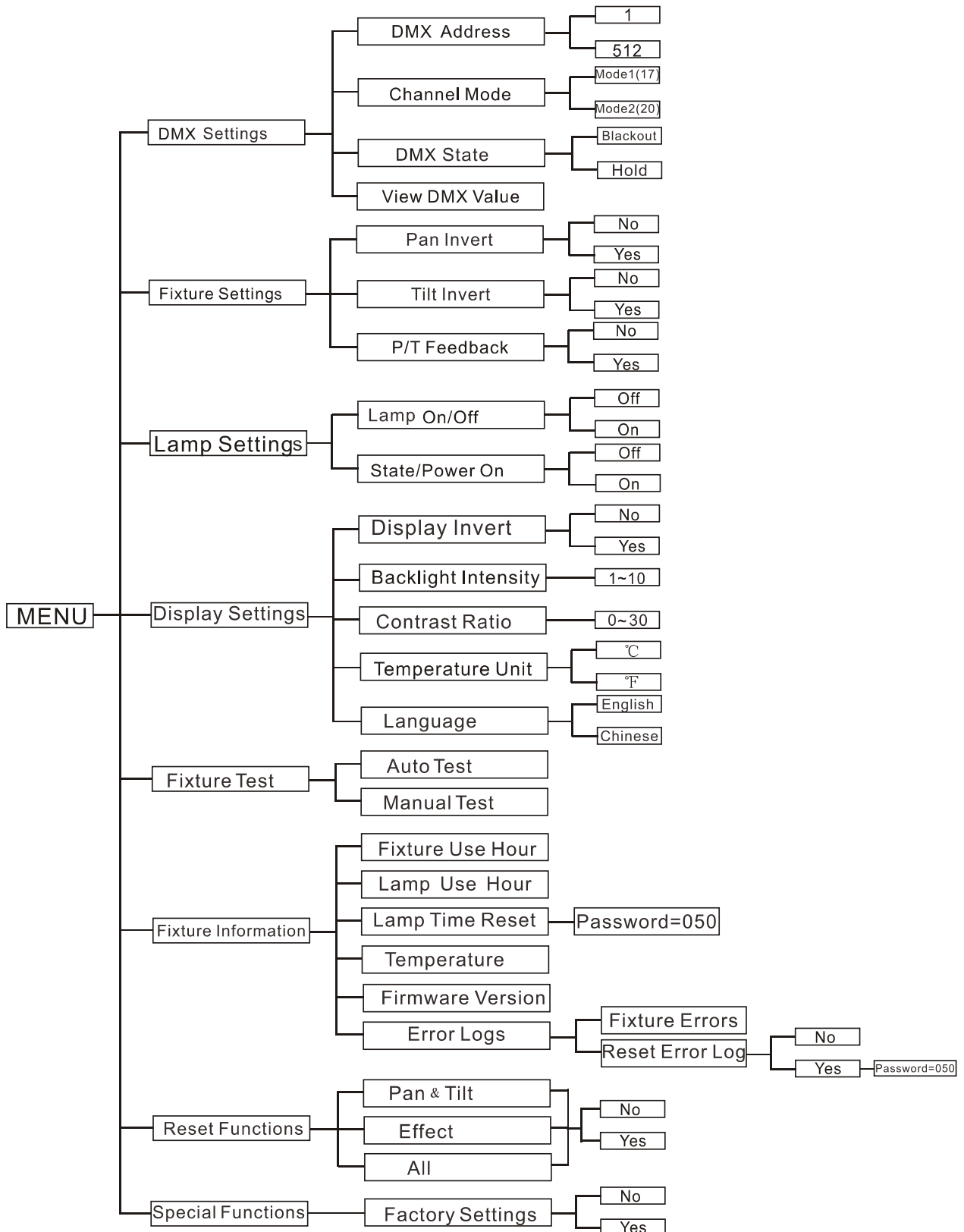
Attention: Damages caused by the failure to replace the bulb in time are not subject to warranty.

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 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 Settings

To select **DMX Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, **Channel Mode**, **DMX State** or **View DMX Value**.

DMX Address

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **001** to **512**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Channel Mode

To select **Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Mode1 (17)** or **Mode2 (20)**, 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 State

To select **DMX State**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Blackout** (fixture blacks out if DMX signal stops) or **Hold** (fixture continues to obey the last command it received Via DMX if DMX signal stops), 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** or **P/T Feedback**.

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.

Lamp Settings

To select **Fixture Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Lamp On/Off** or **State/Power on**.

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.

State/Power On

To select **State/Power On**, 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.

Display Settings

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

Display Invert

Select **Display Invert**, press the **ENTER** button to confirm, present mode will blink on the display, 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

Select **Backlight Intensity**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to adjust backlight intensity from **1** (dark) to **10** (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.

Contrast Ratio

Select **Contrast Ratio**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to adjust value from **0** to **30**, 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

Select **Temperature Unit**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to select °C or °F, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Language

Select **Language**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to select **English** or **Chinese**. 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, shutter, color, CMY, gobo, gobo rotation, prism, prism rotation, iris, frost, zoom, focus, dimmer and lamp on/off. 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** and **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.

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

Fixture Information

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

Fixture Use Hour

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

Lamp Use Hour

Select **Lamp Use Hour**, press the **ENTER** button to confirm, lamp use time will show on the display, press the **MENU** button to exit.

Lamp Time Reset

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

Temperature

Select **Temperature**, press the **ENTER** button to confirm, fixture temperature will show on the display, press the **MENU** button to exit.

Firmware Version

Select **Firmware Version**, press the **ENTER** button to confirm, firmware version 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 Log**, press the **ENTER** button to confirm. Select **Reset Error Log**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No** or **Yes**, press the **ENTER** button to confirm. Select **Yes**, press the **ENTER** button to confirm, use the **UP/DOWN** button to set the password **050** to reset error log. Press the **MENU** button back to the last menu or exit menu mode idling 30 seconds.

Reset Functions

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

Pan & Tilt

Select **Pan & Tilt**, 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 back to the last menu or let the unit idle 30 seconds to exit menu mode.

Effect

Select **Effect**, 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 back to the last menu or let the unit idle 30 seconds to exit menu mode.

All

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

Special Functions

Factory Settings

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.

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 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.

| | | |
|-------------|----------|----------|
| Offset Menu | Pan | -128~127 |
| | Tilt | -128~127 |
| | Shutter | 0~255 |
| | Color | -128~127 |
| | Gobo1 | -128~127 |
| | Gobo2 | -128~127 |
| | R-Gobo2 | -128~127 |
| | Prism | 0~255 |
| | R-Prism | -128~127 |
| | Prism2 | 0~255 |
| | R-Prism2 | -128~127 |
| | Frost | 0~255 |
| | Focus | 0~255 |
| | Zoom | 0~255 |

Pan—pan home position adjustment

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—Tilt home position adjustment

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.

Shutter—Shutter home position adjustment

Enter offset mode, Select **Shutter**, 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—Color home position adjustment

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 1—Gobo 1 home position adjustment

Enter offset mode, Select **Gobo 1**, 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 2—Gobo 2 home position adjustment

Enter offset mode, Select **Gobo 2**, 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-Gobo 2—Gobo 2 rotation home position adjustment

Enter offset mode, Select **R-Gobo 2**, 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.

Prism—Prism home position adjustment

Enter offset mode, Select **Prism**, 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.

R-Prism—Prism rotation home position adjustment

Enter offset mode, Select **R-Prism**, 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.

Prism 2—Prism 2 home position adjustment

Enter offset mode, Select **Prism 2**, 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.

R-Prism 2—Prism 2 rotation home position adjustment

Enter offset mode, Select **R-Prism 2**, 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—Frost home position adjustment

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.

Focus—Focus home position adjustment

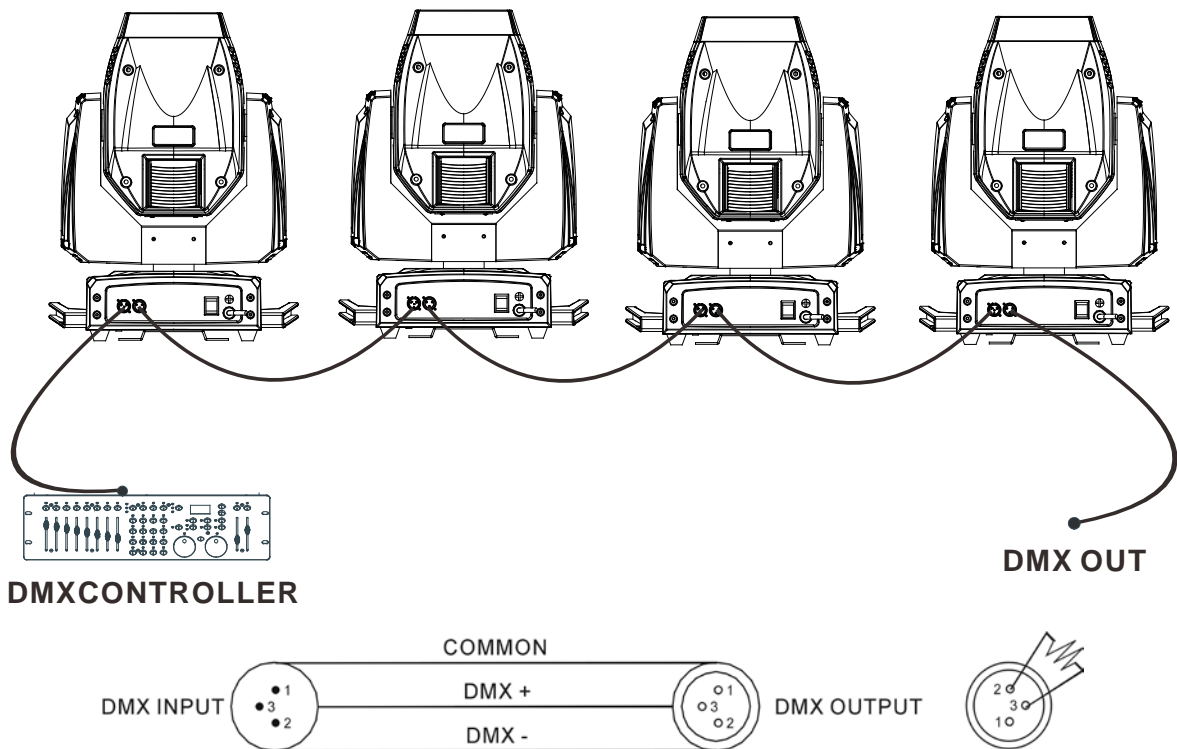
Enter offset mode, Select **Focus**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Zoom—Zoom home position adjustment

Enter offset mode, Select **Zoom**, 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 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.

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 be blinking on the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or 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 |
|--------------|----------------|----------------|----------------|----------------|
| 17 channels | 1 | 18 | 35 | 52 |
| 20 channels | 1 | 21 | 41 | 61 |

6.3 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.

17 Channels (Mode 1):

| CHANNEL | VALUE | FUNCTION |
|---------|--|--|
| 1 | 000-255 | PAN 0°→540° |
| 2 | 000-255 | TILT 0°→270° |
| 3 | 000-255 | P/T SPEED Fast→Slow |
| 4 | 000-003 004-007 008-011 012-015 | COLOR White Color 1 Color 2 Color 3 |

| | | |
|---|---|--|
| | 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047 048-051 052-055 056-059 060-127 128-189 190-193 194-255 | Color 4 Color 5 Color 6 Color 7 Color 8 Color 9 Color 10 Color 11 Color 12 Color 13 Color 14 White to Color14 Clockwise Rotation Fast to Slow Stop Counter-Clockwise Rotation Slow to Fast |
| 5 | 000-003 004-007 008-011 012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087 088-091 092-095 096-099 100-103 104-107 108-111 112-115 116-119 120-127 | Static GOBO White Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 9 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 White shaking slow to fast Gobo1 shaking slow to fast Gobo2 shaking slow to fast Gobo3 shaking slow to fast Gobo4 shaking slow to fast Gobo5 shaking slow to fast Gobo6 shaking slow to fast Gobo7 shaking slow to fast Gobo8 shaking slow to fast Gobo9 shaking slow to fast Gobo10 shaking slow to fast Gobo11 shaking slow to fast Gobo12 shaking slow to fast Gobo13 shaking slow to fast Gobo14 shaking slow to fast |

| | | |
|----|---|--|
| | 128-189 190-193 194-255 | Clockwise Rotation Fast to Slow Stop Counter-Clockwise Rotation Slow to Fast |
| 6 | 000-007 008-015 016-023 024-031 032-039 040-047 048-055 056-063 064-071 072-079 080-087 088-095 096-103 104-111 112-119 120-127 128-189 190-193 194-255 | Rotating GOBO White Gobo1 Gobo2 Gobo3 Gobo4 Gobo5 Gobo6 Gobo7 White shaking slow to fast Gobo1 shaking slow to fast Gobo2 shaking slow to fast Gobo3 shaking slow to fast Gobo4 shaking slow to fast Gobo5 shaking slow to fast Gobo6 shaking slow to fast Gobo7 shaking slow to fast Clockwise Rotation Fast to Slow Stop Counter-Clockwise Rotation Slow to Fast |
| 7 | 000-127 128-189 190-193 194-255 | GOBO Rotation 0%→100% Clockwise rotation, fast→slow Stop Counter-clockwise rotation, slow→fast |
| 8 | 000-007 008-255 | PRISM1 Close Open |
| 9 | 000-127 128-189 190-193 194-255 | R-PRISM 1 0% →100% Counter-Clockwise rotation, fast→slow Stop Clockwise rotation, slow→fast |
| 10 | 000-007 008-255 | PRISM 2 Close Open |
| 11 | 000-127 128-189 190-193 194-255 | R-PRISM 2 0%→100% Counter-Clockwise rotation, fast→slow Stop Clockwise rotation, slow→fast |
| 12 | 000-007 | Strobe Close |

| | | |
|-----------|---|--|
| | 008-015 016-131 132-167 168-203 204-239 240-247 248-255 | Open Strobe from slow to fast Fast close slow open Fast open slow close Pulsation from slow to fast Random Strobe Open |
| 13 | 000-046 047-255 | Dimmer Close Open |
| 14 | 000-255 | FOCUS 0%→100% |
| 15 | 000-007 008-255 | Angle1 Close Open |
| 16 | 000-007 008-255 | Angle2 Close Open |
| 17 | 000-069 070-079 080-089 090-099 100-109 110-119 120-129 130-139 140-149 150-159 160-199 200-209 210-229 230-239 240-255 | SPECIAL FUNCTION No Function Blackout While Pan Tilt Move Enable Blackout While Pan Tilt Move Disable Blackout While Color Move Enable Blackout While Color Move Disable Blackout While Gobo Move Enable Blackout While Gobo Move Disable Lamp On Reset XY Reset Effect No Function Reset All No Function Lamp Off No Function |

20 Channels (Mode 2):

| CHANNEL | VALUE | FUNCTION |
|----------|---------|------------------------|
| 1 | 000-255 | PAN 0°→540° |
| 2 | 000-255 | Pan Fine |
| 3 | 000-255 | TILT 0°→270° |

| | | |
|---|--|--|
| 4 | 000-255 | Tilt Fine |
| 5 | 000-255 | P/T SPEED Fast→Slow |
| 6 | 000-003 004-007 008-011 012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047 048-051 052-055 056-059 060-127 128-189 190-193 194-255 | COLOR White Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Color 7 Color 8 Color 9 Color 10 Color 11 Color 12 Color 13 Color 14 White to Color14 Clockwise Rotation Fast to Slow Stop Counter-Clockwise Rotation Slow to Fast |
| 7 | 000-003 004-007 008-011 012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087 | Static GOBO White Gobo1 Gobo2 Gobo3 Gobo4 Gobo5 Gobo6 Gobo7 Gobo8 Gobo9 Gobo10 Gobo11 Gobo12 Gobo13 Gobo14 Gobo15 White shaking slow to fast Gobo1 shaking slow to fast Gobo2 shaking slow to fast Gobo3 shaking slow to fast Gobo4 shaking slow to fast Gobo5 shaking slow to fast |

| | | |
|----|---|--|
| | 088-091 092-095 096-099 100-103 104-107 108-111 112-115 116-119 120-127 128-189 190-193 194-255 | Gobo6 shaking slow to fast Gobo7 shaking slow to fast Gobo8 shaking slow to fast Gobo9 shaking slow to fast Gobo10 shaking slow to fast Gobo11 shaking slow to fast Gobo12 shaking slow to fast Gobo13 shaking slow to fast Gobo14 shaking slow to fast Clockwise Rotation Fast to Slow Stop Counter-Clockwise Rotation Slow to Fast |
| 8 | 000-007 008-015 016-023 024-031 032-039 040-047 048-055 056-063 064-071 072-079 080-087 088-095 096-103 104-111 112-119 120-127 128-189 190-193 194-255 | Rotating GOBO White Gobo1 Gobo2 Gobo3 Gobo4 Gobo5 Gobo6 Gobo7 White shaking slow to fast Gobo1 shaking slow to fast Gobo2 shaking slow to fast Gobo3 shaking slow to fast Gobo4 shaking slow to fast Gobo5 shaking slow to fast Gobo6 shaking slow to fast Gobo7 shaking slow to fast Clockwise Rotation Fast to Slow Stop Counter-Clockwise Rotation Slow to Fast |
| 9 | 000-127 128-189 190-193 194-255 | GOBO Rotation 0%→100% Clockwise rotation, fast→slow Stop Counter-clockwise rotation, slow→fast |
| 10 | 000-007 008-255 | PRISM1 Close Open |
| 11 | 000-127 128-189 190-193 194-255 | R-PRISM 1 0%→100% Counter-Clockwise rotation, fast→slow Stop Clockwise rotation, slow→fast |
| 12 | | PRISM 2 |

| | | |
|-----------|---|--|
| | 000-007 008-255 | Close Open |
| 13 | 000-127 128-189 190-193 194-255 | R-PRISM 2 0%→100% Counter-Clockwise rotation, fast→slow Stop Clockwise rotation, slow→fast |
| 14 | 000-007 008-015 016-131 132-167 168-203 204-239 240-247 248-255 | Strobe Close Open Strobe from slow to fast Fast close slow open Fast open slow close Pulsation from slow to fast Random Strobe Open |
| 15 | 000-046 047-255 | Dimmer Close Open |
| 16 | 000-255 | FOCUS 0%→100% |
| 17 | 000-255 | Focus Fine |
| 18 | 000-007 008-255 | Angle1 Close Open |
| 19 | 000-007 008-255 | Angle2 Close Open |
| 20 | 000-069 070-079 080-089 090-099 100-109 110-119 120-129 130-139 140-149 150-159 160-199 200-209 210-229 230-239 240-255 | SPECIAL FUNCTION No Function 0 Blackout While Pan Tilt Move Enable Blackout While Pan Tilt Move Disable Blackout While Color Move Enable Blackout While Color Move Disable Blackout While Gobo Move Enable Blackout While Gobo Move Disable Lamp On Reset XY Reset Effect No Function Reset All No Function Lamp Off No Function |

7. Troubleshooting

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

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

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

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check to see if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

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

D. The lamp is cutting out intermittently

1. The lamp is not working well. Check the mains voltage either too high or too low.
2. Internal temperature may be too high. Check if replacement of fan is needed on the head.

8. 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.

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