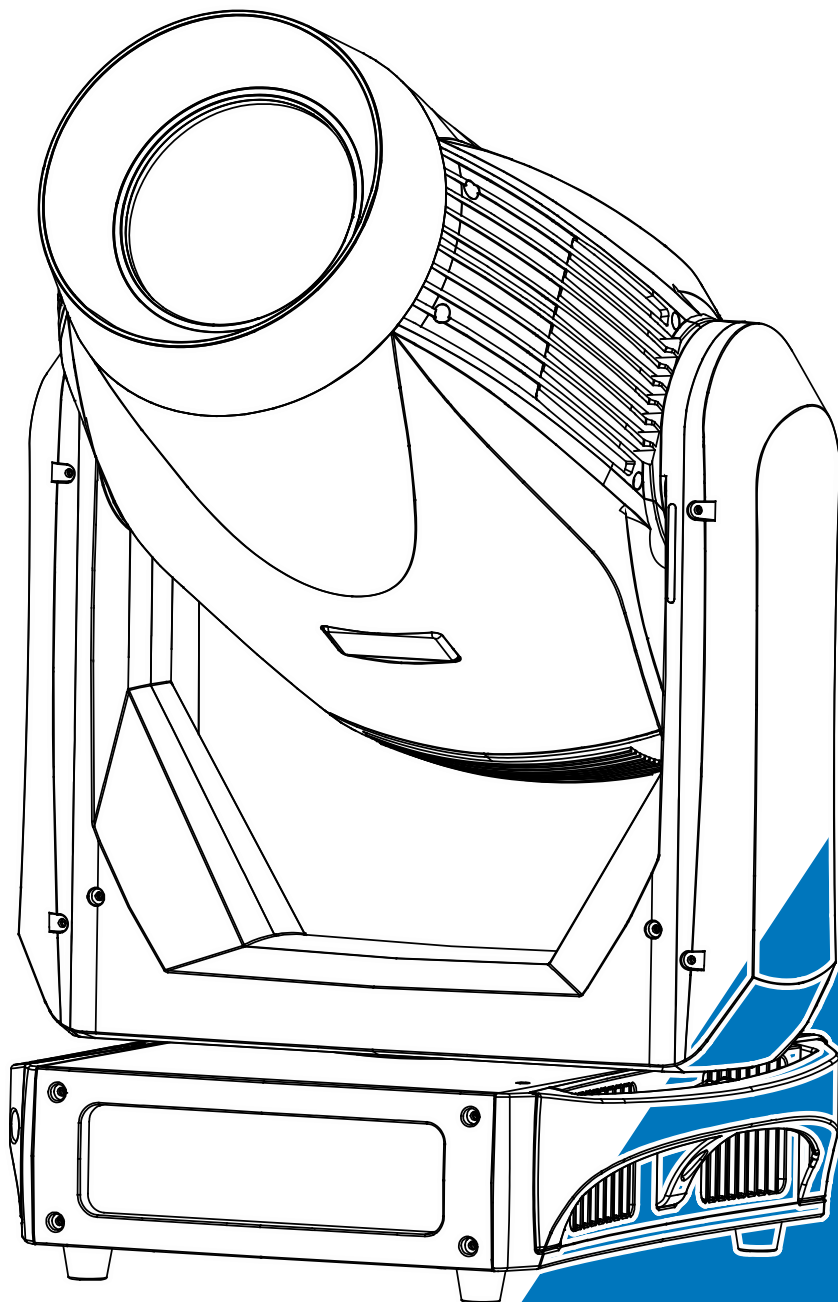




GLORY FRAMING

XP-1000SZ F



User Manual

Please read the instruction carefully before use

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1. Safety Instruction



WARNING

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

Please keep this User Manual 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.
- The unit 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 matches the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Maximum ambient temperature TA: 40°C. Don't operate it when the temperature is higher.
- Don't 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. Don't touch the housing bare-handed during its operation, and allow about 15 minutes for cooling the unit down before replacing bulb or maintenance as it could be very hot.
- 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 the fixture regularly.
- Do not touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires 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 once again.
- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- 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.
- **Caution:**
- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- 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.

2. Technical Specification

◆ Power supply:

AC 230V, 50Hz

◆ Power Consumption:

1350W

◆ Lamp:

OSRAM Lok-it HTI1000/PS

◆ Optical system:

- High efficient Optical system.
- Delivering extremely powerful output.
- High quality lens.

◆ Movement:

- Pan: 540°
- Tilt: 270°
- Pan/Tilt moving speed adjustable
- Automatic Pan/Tilt correction.
- Easy calibration and maintenance by magnetic home positioning.
- Pan/Tilt position lock for transporting protection.

◆ Dimmer/Shutter:

- Mechanical dimmer
- Mechanical shutter and adjustable speed strobe effect

◆ CMY color mixing + Linear CTO

◆ Color wheel:

- Color wheel: 6 fixed colors
- Rainbow effect in both directions.
- Easy calibration and maintenance by magnetic home positioning

◆ Gobo wheel:

- Gobo Wheel: 1 rotation gobos with 5gobos plus white

- Easy calibration and maintenance by magnetic home positioning

◆ **Animation Wheel:**

Perfect water wave and flame effects, rotating and index able

◆ **Framing System :**

- 4 fast, smooth framing shutters, each shutter blade position and angle can be controlled individually
- Completed framing module can be rotated at 90°

◆ **Iris:**

Linear iris

◆ **Prism:**

Four facet prism, rotating in both direction

◆ **Focus:**

Motorize focus

◆ **Cooling:**

Fan cooling

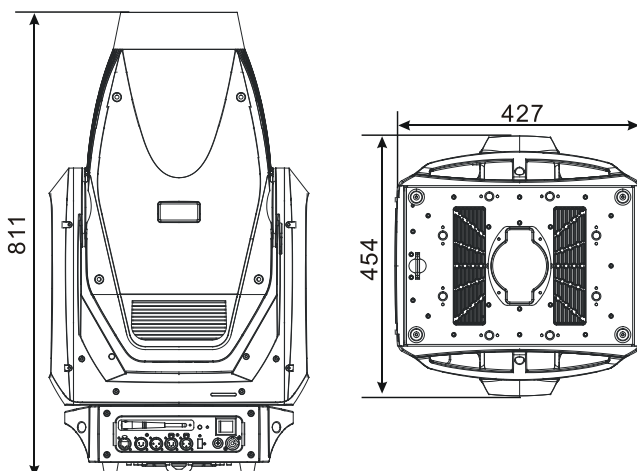
◆ **Beam Angle:**

9° ~ 61°

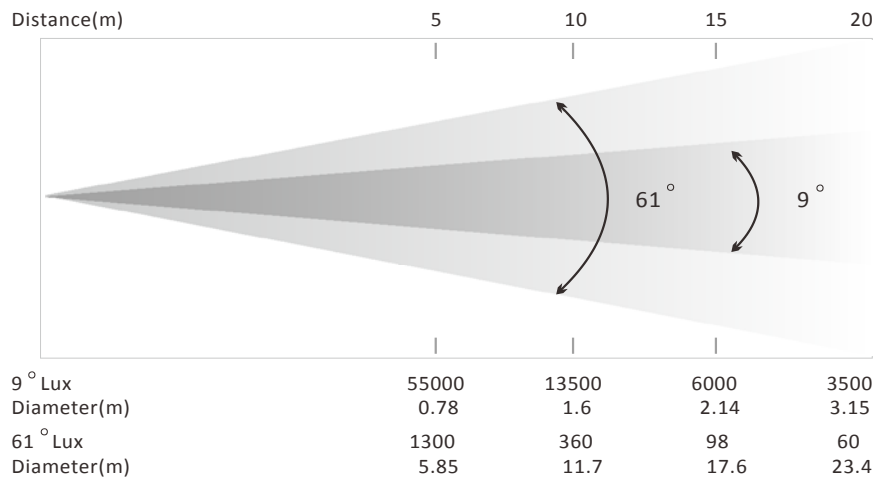
◆ **Dimension/Weight:**

454 × 427 × 811mm, 40.0Kgs

17.9" × 16.8" × 31.9" in, 88.2lbs

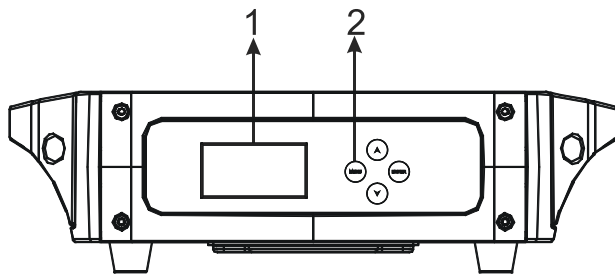


Photometric Diagram

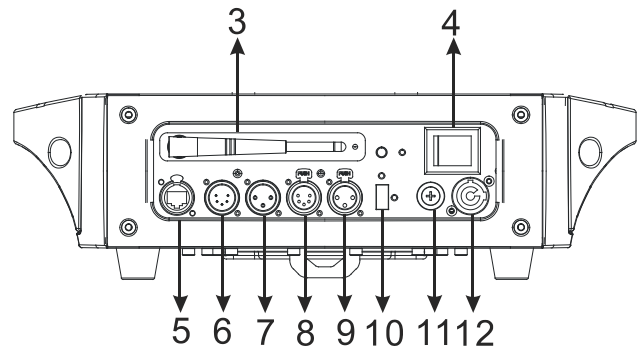


3. Control Panel

Front View



Rear View



1. FUNCTION DISPLAY:

Shows the various menus and the selected functions;

2. BUTTON:

MENU	To select the programming functions
▲	To go backward in the selected functions
▼	To go forward in the selected functions
ENTER	To confirm the selected functions

3. WIRELESS RECEIVER:

Receives the wireless DMX signal.

4. POWER SWITCH:

Turns On/Off the power;

5. ETHERNET:

Transfers fixture's information to a main controller;

6. DMX IN:

DMX 512 operation, use 5-pin XLR cable to link the unit and DMX controller;

7. DMX IN:

DMX 512 link, use 3-pin XLR cable to link the unit and DMX controller;

8. DMX OUT:

DMX 512 operation, use 5-pin XLR cable to link the next units;

9. DMX OUT:

DMX 512 operation, use 3-pin XLR cable to link the next units;

10. BATTERY DISPLAY:

Shows the battery status;

11. FUSE (AC250V/T 15A):

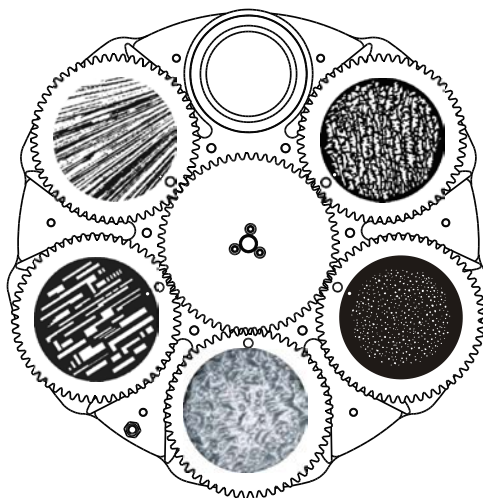
Protect the unit from damage of over voltage or short circuit;

12. POWER:

Connect to the mains supply.

4. Gobo Wheel and Lamp

4.1 Gobo Wheel



Rotation gobo wheel

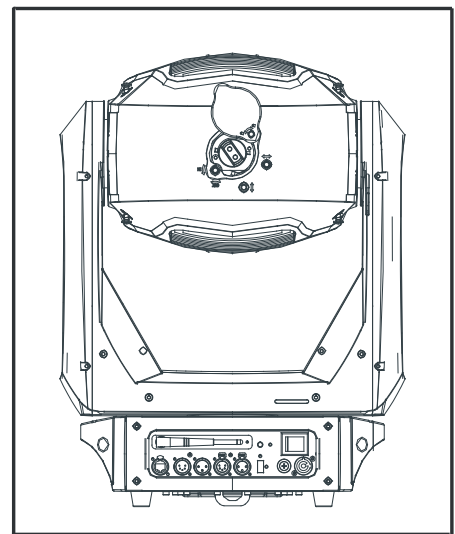
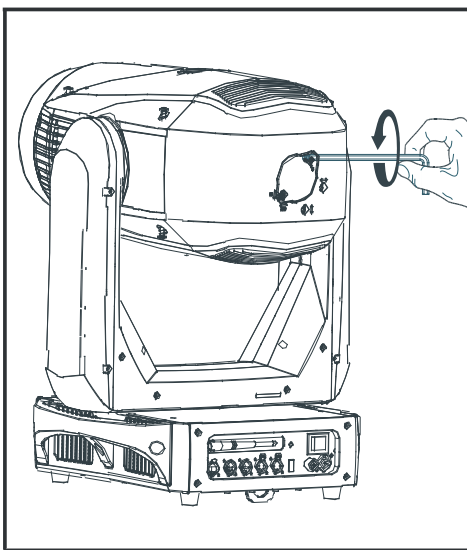
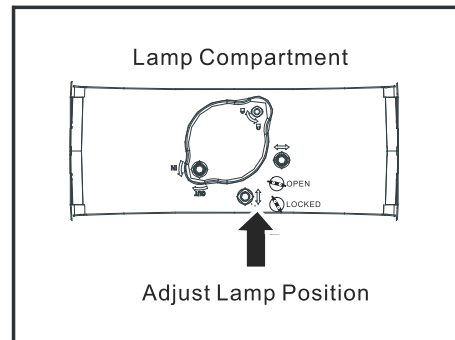
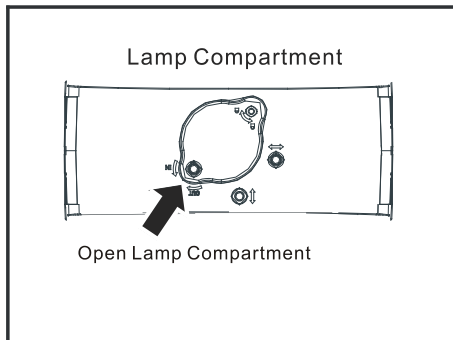
DANGER!
Install/change the gobo-wheel with the device switched off only.

4.2 Lamp

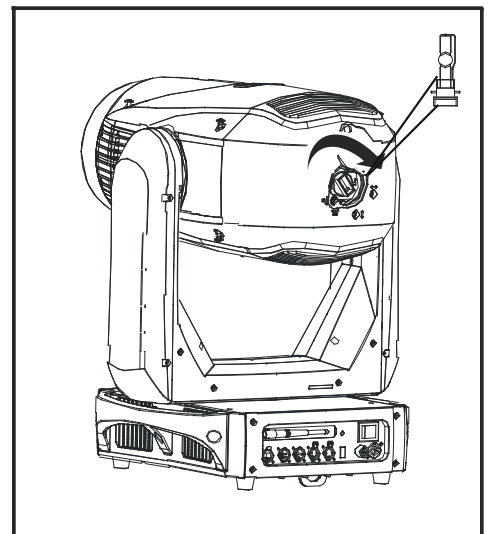
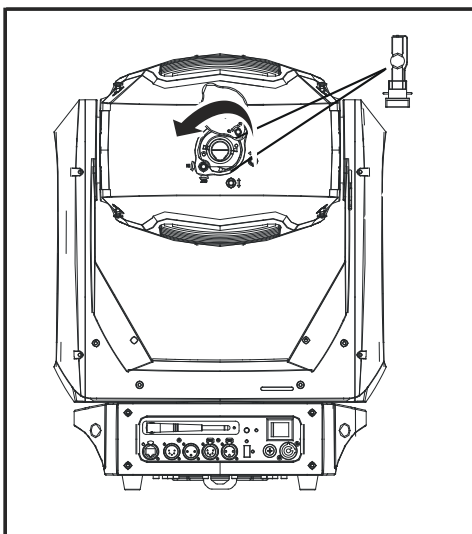
OSRAM:

1. 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.
2. 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.
3. 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.
4. The lamp generates UV radiation. Never operate the lamp without appropriate shielding.
5. When ling 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.
6. Make sure the lamp is located in the center of the reflector for the best projection.

4.3 Change The Lamp



Loosen the screw at the rear side of the fixture and open the lamp compartment cover.



Remove the old lamp and turn the lamp left in order to take the lamp out, put a new lamp that

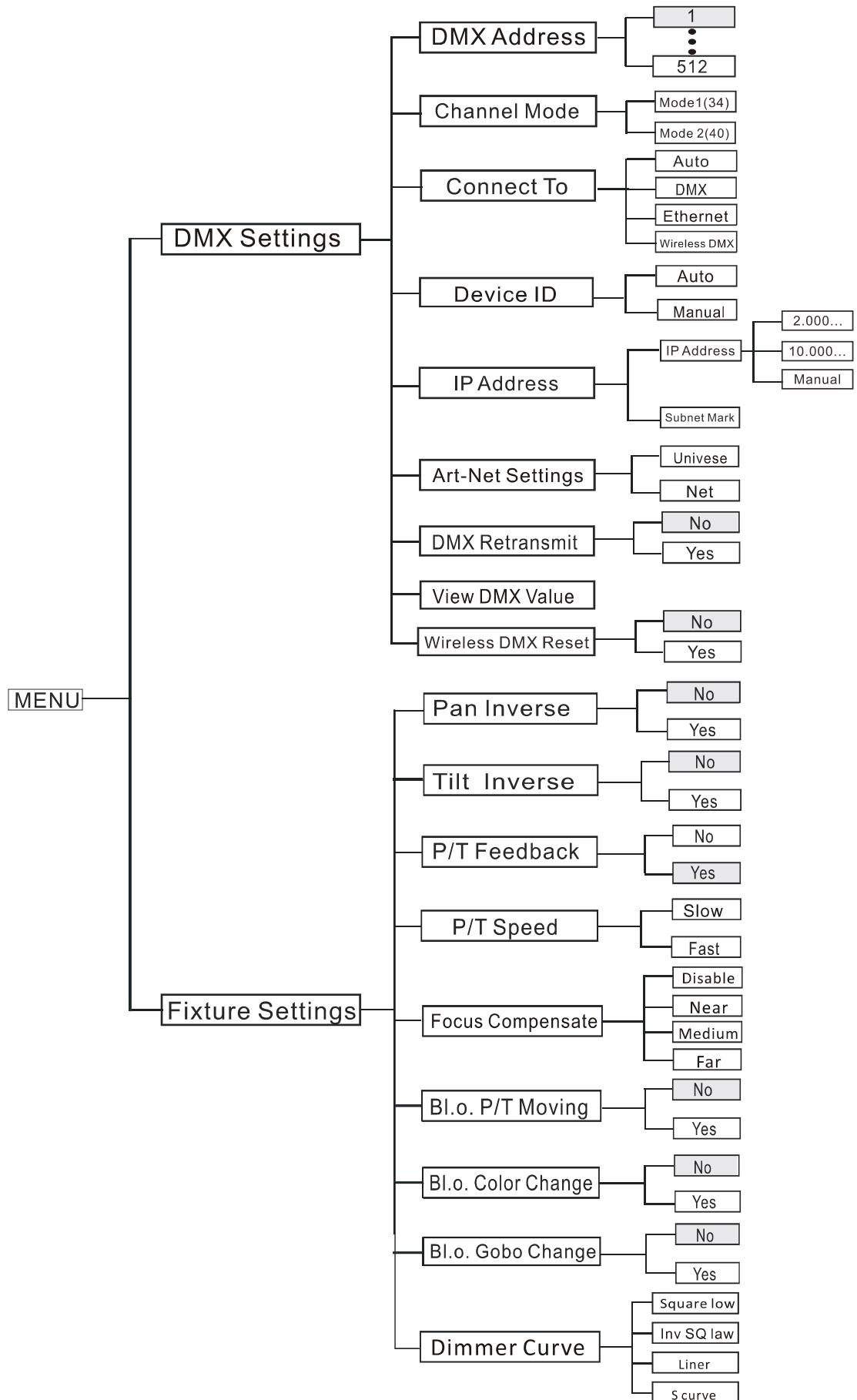
must be the same type as the old one. And then place the new lamp into the lamp holder and turn the lamp right in order to fix. Finally reinstall the lamp compartment cover, fastening it securely before turning on power.

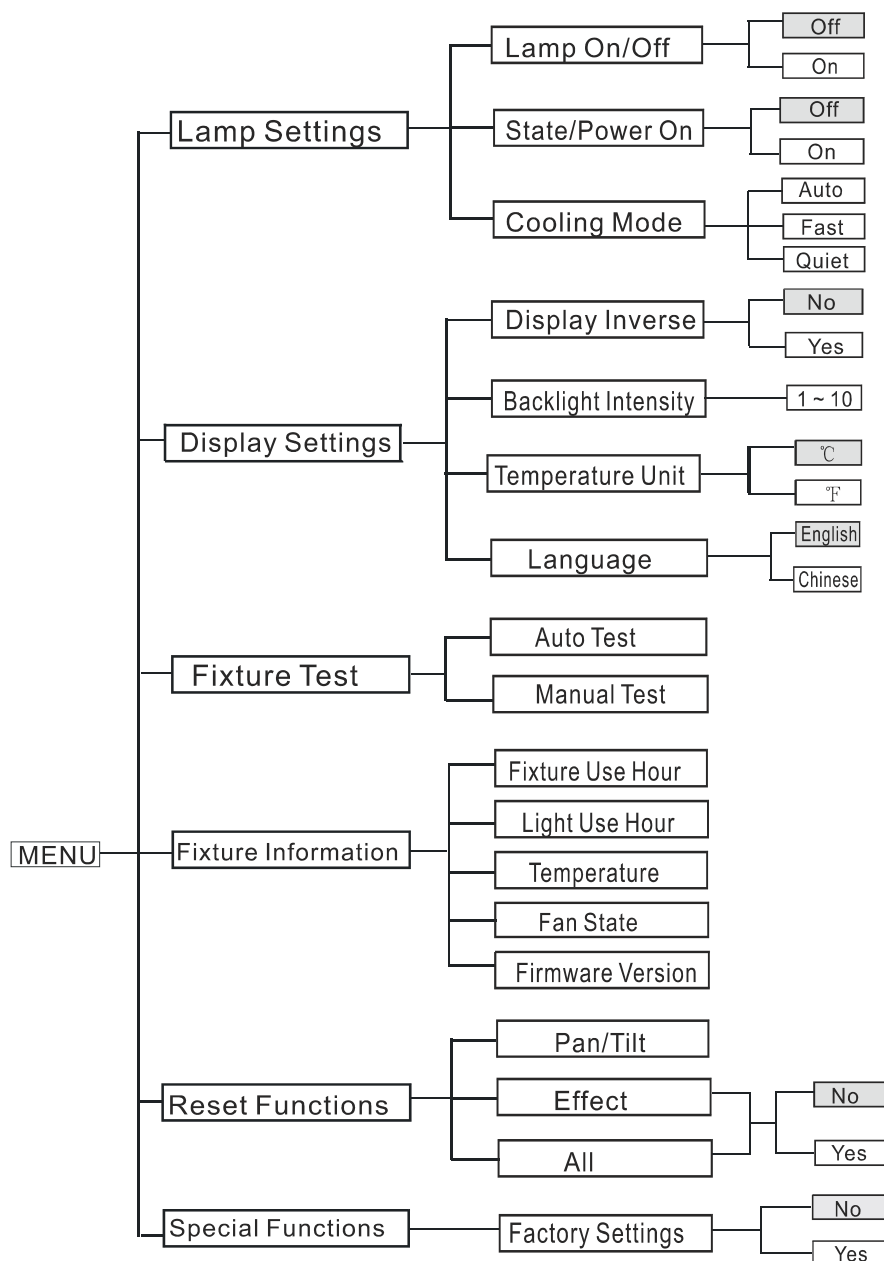
5. How To Set The Unit

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 one minute to exit menu mode. In the event of disconnecting with mains power, press the **UP** button for one minute to enter into menu mode. Press **MENU** button or let the unit idle one minute to exit.

The main functions are shown below (the grayed boxes are preset settings) :





DMX Settings

To select **DMX Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, **Channel Mode**, **Connect To**, **Device ID**, **IP Address**, **Art-Net Setting**, **DMX Retransmit**, **View DMX Value** or **Wireless DMX**.

DMX Address

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **1** to **512**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Channel Mode

To select **Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Mode1 (34)** or **Mode2 (40) Channel** mode, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Connect To

To select **Connect To**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto**, **DMX**, **Art-Net** or **Wireless DMX**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Device ID

To select **Device ID**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto** or **Manual**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

IP Address

To select **IP Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **IP Address** or **Subnet Mark**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Art-net Setting

To select **Art-net Setting**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Universe** or **Net**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

DMX Retransmit

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

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 one minute to exit menu mode.

Wireless DMX Reset

To select **Wireless DMX Reset**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (Wireless DMX will reset), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Settings

To select **Fixture Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan Inverse**, **Tilt Inverse**, **P/T Feedback**, **P/T Speed**, **Auto Focus**, **BL.O. P/T Moving**, **BL.O. Color Change**, **BL.O. Gobo Change** or **Dimmer Curve**.

Pan Inverse

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

Tilt Inverse

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

P/T Feedback

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

P/T Speed

To select **P/T 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 one minute to exit menu mode.

Focus Compensate

To select **Focus Compensate**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Disable**, **Near**, **Medium** or **Far**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

BL.O. P/T Moving — Blackout while pan/tilt moving

To select **BL.O. P/T Moving**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal while pan/tilt moving) or **Yes** (blackout while pan/tilt moving), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

BL.O. Color Change — Blackout while color changing

To select **BL.O. Color Change**, press the **ENTER** button to confirm. Use **UP/DOWN** button to select **No** (normal while changing color) or **Yes** (blackout while color changing), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

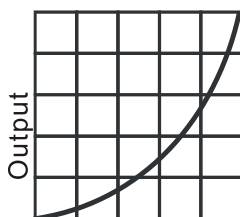
BL.O. Gobo Change — Blackout while gobo changing

To select **BL.O. Gobo Change**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal while changing gobo) or **Yes** (blackout while gobo changing), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

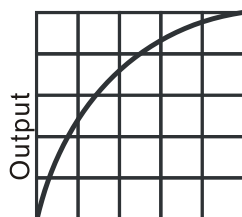
Dimmer Curve

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

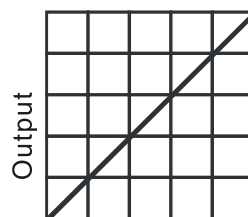
Dimmer Modes:



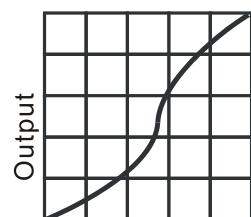
DMX%
(Square Law)



DMX%
(Inverse Square Law)



DMX%
(Optically Linear)



DMX%
(S-Curve)

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.

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

S-cure: 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**, **State/Power on** or **Cooling Mode**.

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 one minute 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 one minute to exit menu mode.

Cooling Mode

To select **Cooling Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto**, **Fast** or **Quiet**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Display Settings

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

Display Inverse

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

Backlight Intensity

To select **Backlight Intensity**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the value from **1** to **10**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Temperature Unit

To select **Temperature Unit**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to

select °C or °F, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

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 one minute 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

To select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, shutter, color, gobo, gobo rotation, prism, prism rotation, focus, dimmer and lamp on/off. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

To select **Manual Test**, press the **ENTER** button to confirm, 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 one minute.

(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**, **Light Use Hour**, **Fixture State** or **Firmware Version**.

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.

Light Use Hour

To select **Light Use Hour**, press the **ENTER** button to confirm, lamp on time will show on the display, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Exit** or **Reset Time**, press the **ENTER** button to confirm. Press the **MENU** button back to the last menu or exit menu mode idling one minute.

Fixture State

Select **Fixture State**, press the **ENTER** button to confirm, fixture 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.

Reset Functions

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

Pan/Tilt — Reset Pan/Tilt

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

Effect

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

All — Reset All

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

Special Functions

To select **Special Functions**, press the **ENTER** button to confirm, and select **Factory Settings**.

Factory Settings

Select **Factory Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Yes** (the fixture will reset to factory settings) or **No** (normal), 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 and hold 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 select the submenu, press the **ENTER** button to store and automatically return to the last menu. Press the **MENU** button to exit.

Offset Menu	Encoder Calibrate	
	Pan	-128~127
	Tilt	-128~127
	Shutter	0~255
	Dimmer	0~255
	Color	-128~127
	Gobo1	-128~127
	R-Gobo1	-128~127
	Framing	0~255
	Blade-UP1	0~255
	Blade-UP2	0~255
	Blade-DW1	0~255
	Blade-DW2	0~255
	Blade-LF1	0~255
	Blade-LF2	0~255
	Blade-RG1	0~255
	Blade-RG2	0~255
	Iris	0~255
	Prism	0~255
	R-Prism	-128~127
	Frost	0~255
	Focus	0~255
	Zoom	0~255
	Cyan	0~255
	Magenta	0~255
	Yellow	0~255
	CTO	0~255
	Animation	-128~127

Encoder Calibrate- Encoder Calibrate home position adjustment

Enter offset mode, select **Encoder Calibrate**, the fixture will calibrate the encoder. Press the **MENU** button to exit.

Pan - pan home position adjustment

Enter offset mode, select **Pan**, press the **ENTER** button to confirm. 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. 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. 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.

Dimmer - Dimmer home position adjustment

Enter offset mode, select **Dimmer**, press the **ENTER** button to confirm. 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. 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.

Gobo1 – Gobo1 home position adjustment

Enter offset mode, select **Gobo1**, press the **ENTER** button to confirm. 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 Gobo1 – Gobo1 rotation home position adjustment

Enter offset mode, select **R Gobo1**, press the **ENTER** button to confirm. 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.

Framing -Framing home position adjustment

Enter offset mode, select **Framing**, press the **ENTER** button to confirm. 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.

Blade-UP1 - Blade-UP1 home position adjustment

Enter offset mode, select **Blade-UP1**, press the **ENTER** button to confirm. 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.

Blade-UP2 - Blade-UP2 home position adjustment

Enter offset mode, select **Blade-UP2**, press the **ENTER** button to confirm. 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.

Blade-DW1 - Blade-DW1 home position adjustment

Enter offset mode, select **Blade-DW1**, press the **ENTER** button to confirm. 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.

Blade-DW2 - Blade-DW2 home position adjustment

Enter offset mode, select **Blade-DW2**, press the **ENTER** button to confirm. 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.

Blade-LF1 - Blade-DW1 home position adjustment

Enter offset mode, select **Blade-LF1**, press the **ENTER** button to confirm. 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.

Blade-LF2 - Blade-LF2 home position adjustment

Enter offset mode, select **Blade-LF2**, press the **ENTER** button to confirm. 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.

Blade-LRG1 - Blade-LRG1 home position adjustment

Enter offset mode, select **Blade-LRG1**, press the **ENTER** button to confirm. 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.

Blade-LRG2 - Blade-LRG2 home position adjustment

Enter offset mode, select **Blade-LRG2**, press the **ENTER** button to confirm. 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.

Iris- Iris home position adjustment

Enter offset mode, select **Iris**, press the **ENTER** button to confirm. 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.

Prism – Prism home position adjustment

Enter offset mode, select **Prism**, press the **ENTER** button to confirm. 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. 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. 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. 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. 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.

Cyan- Cyan home position adjustment

Enter offset mode, select **Cyan**, press the **ENTER** button to confirm. 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.

Magenta- Magenta home position adjustment

Enter offset mode, select **Magenta**, press the **ENTER** button to confirm. 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.

Yellow- Yellow home position adjustment

Enter offset mode, select **Yellow**, press the **ENTER** button to confirm. 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.

CTO- CTO home position adjustment

Enter offset mode, select **CTO**, press the **ENTER** button to confirm. 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.

Animation- Animation home position adjustment

Enter offset mode, select **Animation**, press the **ENTER** button to confirm. 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.

5.3 Error Information

Lamp Startup Fail

It appears when there is no lamp or some wires are damaged.

Temperature Sense Error

It appears when temperature check board is damaged.

Lamp Too Hot Power Off

It appears when temperature is detected higher than 110°C. Check if the unit is properly ventilated, or fans or temperature check board may be damaged.

Lamp Too Hot Low Power

It appears when temperature is detected higher than 105°C, the unit will run on a low power level.

Maintenance Fixture

It appears when the maintenance remaining time becomes 0S, please enter menu mode and reset the time.

Lamp On Over 700 Hour

It appears when the lamp has been on over 700 hours, please turn off the lamp.

Memory Initial Fail

It appears when the memory IC is damaged.

CPU-B Error, CPU-C Error, CPU-D Error

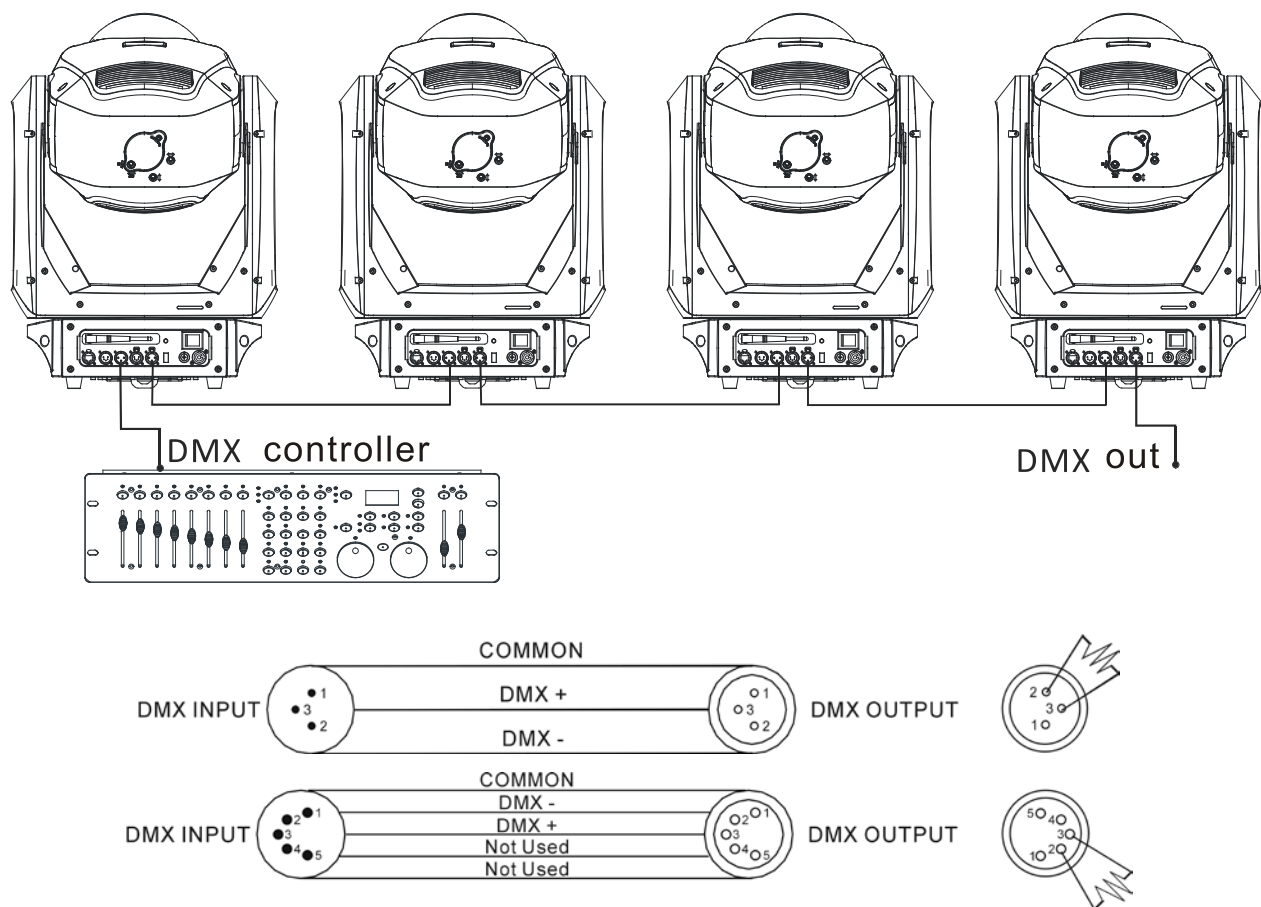
They appear when board P.C or some wires are damaged.

Pan Reset Error, Pan Encode Error, Tilt Reset Error, Tilt Encode Error, Shutter Reset Fail, Dimmer Reset Fail, Color Reset Fail, , Gobo Reset Fail, Focus Reset fail.

They may appear when turning on or resetting the unit, for some parts such as board P.C are damaged. Please contact the qualified maintenance.

6. Control By Universal DMX Controller

6.1 DMX 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 0-511 (usually 0 & 1 are equal to 1).
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins XLR.
 - 3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
 - 5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

6.2 Channel Mode Setting

Enter menu mode, select **DMX Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Mode**, press the **ENTER** button to confirm, present channel mode will blink on the display, use the **UP/DOWN** button to select **21 Channel** or **19 Channel** Mode, and press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

6.3 Address Setting

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

Press the **MENU** button to enter menu mode, select **DMX Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, press the **ENTER** button to confirm, the present address will blink on the display. Use the **UP/DOWN** button to adjust the address from 1 to 512, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Please refer to the following diagram to set the address for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
34 channels	1	35	69	103
40 channels	1	41	81	121

6.4 DMX Control

34Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000 – 019 020 – 049 050 – 200 201 – 210 211 – 255	STROBE: Shutter closed, lamp switches to low power Shutter Open Strobe, slow → fast Shutter Open Random strobe, slow → fast
2	000 – 255	DIMMER 0% → 100%
3	000 – 255	DIMMER FINE
4	000 – 255	CYAN: 0% → 100%
5	000 – 255	MAGENTA: 0% → 100%
6	000 – 255	YELLOW: 0% → 100%
7	000 – 255	CTO: 6000K → 3200K
8	000 001 – 014 015 016 – 029 030 031 – 044 045 046 – 059 060 061 – 074 075 076 – 089 090 091 – 104 105 – 140 141 – 145 146 – 150 151 – 155 156 – 160 161 – 165 166 – 170	COLOR WHEEL: Open Open → Color 1 Color 1 Color 1 + Color 2 Color 2 Color 2 + Color 3 Color 3 Color 3 + Color 4 Color 4 Color 4 + Color 5 Color 5 Color 5 + Color 6 Color 6 Color 6 → Open Open Color 1 Color 2 Color 3 Color 4 Color 5 Color 6

	171 – 185 186 – 211 212 – 217 218 – 243 244 – 247 248 – 251 252 – 255	Open CW Rotation, fast → slow Stop CCW Rotation, slow → fast Random color: Fast Random color: Medium Random color: Slow
9	000 – 009 010 – 014 015 – 019 020 – 024 025 – 029 030 – 034 035 – 309 040 – 044 045 – 049 050 – 054 055 – 059 060 – 089 090 – 119 120 – 149 150 – 179 180 – 209 210 – 232 233 – 255	GOBO WHEEL 1: Open Gobo 1-1 Gobo 1-2 Gobo 1-3 Gobo 1-4 Gobo 1-5 Gobo 1-1 Rotation Gobo 1-2 Rotation Gobo 1-3 Rotation Gobo 1-4 Rotation Gobo 1-5 Rotation Gobo 1-1 shake: slow → fast Gobo 1-2 shake: slow → fast Gobo 1-3 shake: slow → fast Gobo 1-4 shake: slow → fast Gobo 1-5 shake: slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
10	000 – 002 003 – 125 126 – 128 129 – 252 253 – 255	GOBO WHEEL 1 ROTATION: Index to 0° CW Rotation: fast → slow No Rotation CCW Rotation: slow → fast Index to 90°
11	0 – 255	GOBO WHEEL 1 ROTATION FINE:
12	000 – 009 010 – 019 020 – 124 125 – 132 133 – 236 237 – 255	Animation: Off Open CW Rotation: fast → slow Stop CCW Rotation: slow → fast Open
13	000 – 255	Framing: 0% → 100%
14	000 – 255	Blade - UP1 100% → 0%
15		Blade - UP2

	000 – 255	100% → 0%
16	000 – 255	Blade - DW1 100% → 0%
17	000 – 255	Blade - DW2 100% → 0%
18	000 – 255	Blade - LF1 100% → 0%
19	000 – 255	Blade - LF2 100% → 0%
20	000 – 255	Blade - RG1 100% → 0%
21	000 – 255	Blade - RG2 100% → 0%
22	000 – 255	FROST: 0% → 100%
23	000 – 010 011 – 138 139 – 552	PRISM: Closed Prism Indexing Prism Rotation
24	000 – 002 003 – 126 127 – 129 130 – 253 254 – 255	R-PRISM: Stay at 0° position CW Rotation, fast → slow Stop CCW Rotation, slow → fast Stay at 45° position
25	000 – 255	IRIS: 100% → 0%
26	000 – 255	ZOOM: Wide → narrow
27	000 – 255	ZOOM FINE
28	000 – 255	FOCUS: Far → near
29	000 – 255	FOCUS FINE
30	000 – 255	PAN: 0° → 540°
31	000 – 255	PAN FINE
32	000 – 255	TILT: 0° → 270°
33	000 – 255	TILT FINE
34	000 – 009	SPECIAL FUNCTIONS: No function

	010 – 014	Reset all
	015 – 029	Reset effect
	030 – 034	Reset Pan/Tilt
	035	Fan Speed Quiet
	036 – 037	Fan Speed Auto
	038 – 039	Fan Speed Fast
	040 – 044	Lamp on
	045 – 049	Lamp Off
	050 – 059	No Function
	060 – 064	Dimmer curve: line
	064 – 069	Dimmer curve: square law
	070 – 074	Dimmer curve: inverse square law
	075 – 079	Dimmer curve: s curve
	080 – 084	Pan/Tilt Speed: fast
	085 – 089	Pan/Tilt Speed: medium
	090 – 104	Pan/Tilt Speed: slow
	105 – 109	Focus Compensate disable
	110 – 114	Focus Compensate near
	115 – 119	Focus Compensate medium
	120 – 124	Focus Compensate far
	125 – 126	Lamp Full Power
	127 – 134	Lamp Half Power
	135 – 255	No function

40 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	000 – 019 020 – 049 050 – 200 201 – 210 211 – 255	STROBE: Shutter closed, lamp switches to low power Shutter Open Strobe, slow → fast Shutter Open Random strobe, slow → fast
2	000 – 255	DIMMER 0% → 100%
3	000 – 255	DIMMER FINE
4	000 – 255	CYAN: 0% → 100%
5	000 – 255	MAGENTA: 0% → 100%
6	000 – 255	YELLOW: 0% → 100%

7	000 – 255	CTO: 6000K → 3200K
8	000 001 – 014 015 016 – 029 030 031 – 044 045 046 – 059 060 061 – 074 075 076 – 089 090 091 – 104 105 – 140 141 – 145 146 – 150 151 – 155 156 – 160 161 – 165 166 – 170 171 – 185 186 – 211 212 – 217 218 – 243 244 – 247 248 – 251 252 – 255	COLOR WHEEL: Open Open → Color 1 Color 1 Color 1 + Color 2 Color 2 Color 2 + Color 3 Color 3 Color 3 + Color 4 Color 4 Color 4 + Color 5 Color 5 Color 5 + Color 6 Color 6 Color 6 → Open Open Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Open CW Rotation, fast → slow Stop CCW Rotation, slow → fast Random color: Fast Random color: Medium Random color: Slow
9	000 – 009 010 – 014 015 – 019 020 – 024 025 – 029 030 – 034 035 – 309 040 – 044 045 – 049 050 – 054 055 – 059 060 – 089 090 – 119 120 – 149 150 – 179	GOBO WHEEL 1: Open Gobo 1-1 Gobo 1-2 Gobo 1-3 Gobo 1-4 Gobo 1-5 Gobo 1-1 Rotation Gobo 1-2 Rotation Gobo 1-3 Rotation Gobo 1-4 Rotation Gobo 1-5 Rotation Gobo 1-1 shake: slow → fast Gobo 1-2 shake: slow → fast Gobo 1-3 shake: slow → fast Gobo 1-4 shake: slow → fast

	180 – 209 210 – 232 233 – 255	Gobo 1-5 shake: slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
10	000 – 002 003 – 125 126 – 128 129 – 252 253– 255	GOBO WHEEL 1 ROTATION: Index to 0° CW Rotation: fast → slow No Rotation CCW Rotation: slow → fast Index to 90°
11	0 – 255	GOBO WHEEL 1 ROTATION FINE:
12	000 – 009 010 – 019 020 – 124 125 – 132 133 – 236 237– 255	Animation: Off Open CW Rotation: fast → slow Stop CCW Rotation: slow → fast Open
13		Reserved
14	000 – 255	Blade - UP1 100% → 0%
15	000 – 255	Blade - UP2 100% → 0%
16	000 – 255	Blade - DW1 100% → 0%
17	000 – 255	Blade - DW2 100% → 0%
18	000 – 255	Blade - LF1 100% → 0%
19	000 – 255	Blade - LF2 100% → 0%
20	000 – 255	Blade - RG1 100% → 0%
21	000 – 255	Blade - RG2 100% → 0%
22	000 – 255	Framing: 0% → 100%
23	000 – 255	FROST: 0% → 100%
24	000 – 010 011 – 138 139 - 552	PRISM: Closed Prism Indexing Prism Rotation

25	000 – 002 003 – 126 127 – 129 130 – 253 254 – 255	R-PRISM: Stay at 0° position CW Rotation, fast → slow Stop CCW Rotation, slow → fast Stay at 45° position
26	000 – 255	IRIS: 100% → 0%
27	000 – 255	ZOOM: Wide → narrow
28	000 – 255	ZOOM FINE
29	000 – 255	FOCUS: Far → near
30	000 – 255	FOCUS FINE
31	000 – 255	PAN: 0° → 540°
32	000 – 255	PAN FINE
33	000 – 255	TILT: 0° → 270°
34	000 – 255	TILT FINE
35	000 – 009 010 – 014 015 – 029 030 – 034 035 036 – 037 038 – 039 040 – 044 045 – 049 050 – 059 060 – 064 064 – 069 070 – 074 075 – 079 080 – 084 085 – 089 090 – 104 105 – 109 110 – 114 115 – 119 120 – 124 125 – 126	SPECIAL FUNCTIONS: No function Reset all Reset effect Reset Pan/Tilt Fan Speed Quiet Fan Speed Auto Fan Speed Fast Lamp on Lamp Off No Function Dimmer curve: line Dimmer curve: square law Dimmer curve: inverse square law Dimmer curve: s curve Pan/Tilt Speed: fast Pan/Tilt Speed: medium Pan/Tilt Speed: slow Focus Compensate disable Focus Compensate near Focus Compensate medium Focus Compensate far Lamp Full Power

	127 – 134 135 – 255	Lamp Half Power No function
36~40		Reserved

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 high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

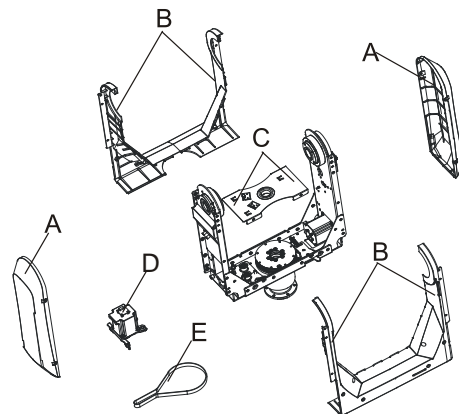
1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

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.

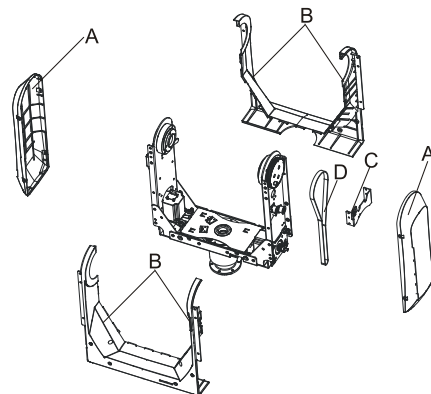
E. If The pan belt is broken

1. Turn off the mains power.
2. Loosen all the screws (AB), open the cover (C).
3. Loosen the screws (D).
4. Unplug all the connect wires over the belt.
5. Change a new belt (E), put the belt around the axis gear and motor gear.
6. Plug all the connect wires back upon the belt.
7. Tighten all the screws.



F. If The tilt belt is broken

1. Turn off the mains power.
2. Loosen all the screws (AB).
3. Loosen the screws (C) that fix the bridge.
4. Change a new belt (D). Please adjust the tension of the belt properly. Note: do not fix the belt too tight as it can easily rupture.
5. Reverse the procedures from step 3 to 2.



8. Maintenance and Cleaning

Check:



A. Do check the fixtures every two months and make sure that all the screws and terminals have

been locked firmly to make sure the normal performance of the fixtures. Negligence of check would cause malfunction of the fixture.

B. As the pictures shown above, please replace the cable or cable joints immediately once they've aged and turned easy to break.

Cleaning:

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

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

Maintenance Schedule:

To make sure that the fixture is running well and has less failures and higher performance, longer life time, safer running, the fixture should be checked and maintained periodically. Below chart is for your reference.

	Part Description	750hrs	1500hrs	2250hrs	3000hrs
FIXTURE HEAD	Lamp	R/A	R/A	R/A	R/A
	Radiator	C	C	C	C
	Color wheel module	C	C	C	C
	Lens	C	C	C	C
	Optical module	C	C	C	C
	Zoom focus module	C/L	C/L	C/L	C/L
BASE	Radiator	C	C	C	C
	Tilt belt	A	A	A	A
	Pan belt	A	A	A	A

Code	
R	Replace
C	Clean
L	Lubricate
A	Adjust

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009 ; EN55103-2: 2009; EN62471: 2008;
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

&

Harmonized Standard

EN 60598-1:2008 + All:2009; EN 60598-2-17:1989 + A2:1991;
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

Innovation, Quality, Performance