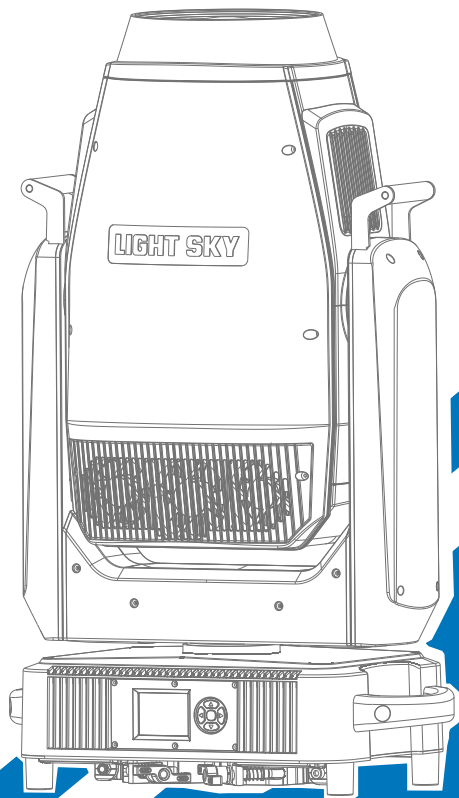


LIGHT SKY[®]

FLY DRAGON LIGHTING EQUIPMENT CO.,LTD

SUPER SCOPE MAX



WWW.LIGHTSKY.COM.CN

User Manual

Please read the instruction carefully before use

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Congratulations on choosing our company product! We thank you for your custom.

◆Please note that this product, as all the others in the rich my company range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

◆Carefully read this user manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.

◆My company disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this user manual, which must always accompany the fitting.

◆My company reserves the right to modify the characteristics stated in this user manual at any time and without prior notice.

1.Safety Instructions



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

WARNING

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

The following symbols are used to identify important safety information on the product and in this manual:



DANGER!
Safety hazard.
Risk of severe
injury or death.



DANGER!
Refer to manual
before installing,
powering or
servicing.



DANGER!
Hazardous
voltage.Risk
of severe or lethal
electric shock.



Warning!
Fire hazard.



Warning!
Burn hazard.
Hot surface.
Do not touch.



Warning!
Risk of eye
injury.Safety
glasses must
be worn.



Warning!
Risk of hand injury.
Safety gloves
must be worn.



Applies only to
luminaires directly
mounted on
surfaces of
non-combustible
materials



Replace all
shatter shields



Take a short
distance from
the object to be
photographed
(meters)



Rated
maximum
ambient
temperature



Indoor use
only



Do not point
the lens towards
the sun or
strong light



Operation not
allowed during
runtime

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 for indoor use only. Use only in a dry location.
- ▶ DO install and operate by qualified operator.
- ▶ The light source in this luminaire should be replaced by the manufacturer or its service agent or a similarly qualified person, always cut off the power supply before replacing the light source.
- ▶ DO NOT allow children to operate the fixture.

- ▶ The unit must be installed in a location with adequate ventilation, at least 20cm 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: -10°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.
- ▶ When the lamp is running, do not place combustible objects next to it. The shortest distance between the device and inflammable and explosive objects or materials is 0.5m.
- ▶ Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- ▶ Unit's surface temperature may reach up to 80°C. 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 3 meters.
- ▶ 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.
- ▶ Avoid direct eye exposure to the light source while the product is on.

- ▶ 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

OPTICAL

- Light source: 1000W/1200W/1400W white LED module (optional)
- Zoom angle : 6° -50 °
- Optical lens: coated with high anti-reflection film, 186mm diameter
- Color Temperature: 6500 K
- CRI : RA≥70 / RA≥90 (cut into the high-display digital filter)
- Total output :1000 w Light source : 43200 Lm;
1200 w Light source : 50700 Lm; 1400 w Light source : 57200 Lm

COLOR

- CMY infinite color blend
- CTO color temperature linear adjustment (3000K-6500K)
- 5 color pieces + white light, can achieve bidirectional color rainbow, double color step gradient (linear movement), color wheel bidirectional rotation, Random color mode

GOBO

- 2 rotating pattern plates, 12 glass pattern plates, dynamic stacking effect, can be inserted and replaced, can realize rotation, Flow, jitter effect;
Rotary plate 1:6 kinds of glass pattern + white circle, pattern sheet outer diameter 31.9mm, pattern sheet inner diameter 24mm
Rotary plate 2:6 kinds of glass pattern + white circle, pattern sheet outer diameter 31.9mm, pattern sheet inner diameter 24mm
- Dynamic effect disc
- Eight-way cutting: four gratings achieve fast and smooth cutting, and eight cutting directions and angles can be individually controlled. Each piece can achieve complete light closure, the whole cutting module can rotate $\pm 45^\circ$

EFFECT

- Four prism, bidirectional rotation
- Heavy atomization + light atomization, can be independently switched, can be superimposed
- Single channel high finger filter -CRI 90
- With electric aperture, 5-100% linear adjustment, with macro function and multiple effect changes

- Electronic dimming, 0-100% linear dimming, uniform spot
- Electron strobe speed is 1-25 times/S
- LED refresh frequency: 1000Hz ~ 25KHz

CONTROL

- Control channel: 42CH, 56CH , See Channel table for details.
- Protocol: DMX512 protocol, RDM protocol, Art Net (optional)
- Data connection: Three core or five core signal input/output
- RJ45 interface (optional)
- Display: LCD liquid crystal display (LCD)

SOFTWARE

- Upgrade software via DMX signal or USB interface
- Mute fan, three working modes (highlight/mute/ultra-mute)
- Ntelligent temperature control to ensure LED life

X/Y ANGLE OF MOTION

- X axis: 540° or 630° 16bit precision scan
- Y-axis: 270° 8bit/16bit precision scan

POWER

- Input voltage: AC 100-240V 50/60Hz
- Maximum power:

1000W Light source :1200W (110V: maximum current 12A; 220V: Maximum current 6A) PF0.996

1200W Light source :1430W (110V: maximum current 14.3A; 220V: Maximum current 7.15A) PF0.987

1400W Light source :1630W (110V: maximum current 16.3A; 220V: Maximum current 8.15A) PF0.987

SIZE & WEIGHT

- Lighting Size : 502mm×300mm×845mm
- Box Size : 920mm×570mm×375mm N.W.: 44.0kg , G.W.: 48.8kg
- Flycase Size (1 set): 710X560X875mm N.W.: 44.0kg , G.W.: 80.6kg

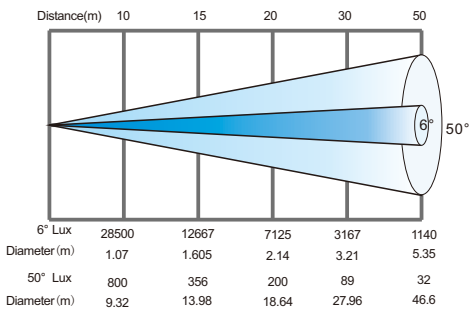
OTHERS

- IP rate : IP20
- Working Ambient : -10°C~ 40 °C
- Maximum temperature of lamp body surface: 80 °C

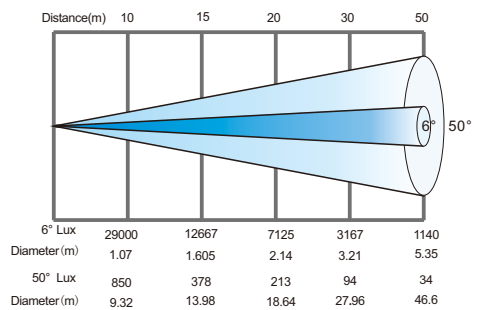
STANDARDS AND CERTIFICATION

- The product implementation standard: GB 7000.1-2015 GB7000. 217-2008
- Approved certifications: CE、 RoHs
- The product complies with the following EU directives:
Low Voltage Directive 2014/35/EU . EMC Directive 2014/30/EU

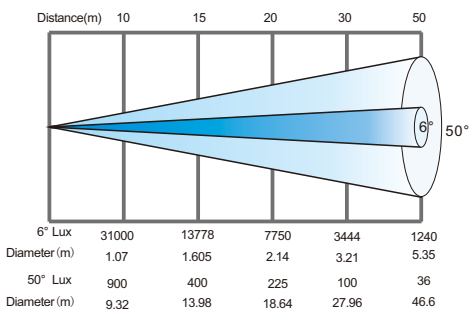
1000W HL illumination diagram



1200W HL illumination diagram



1400W HL illumination diagram

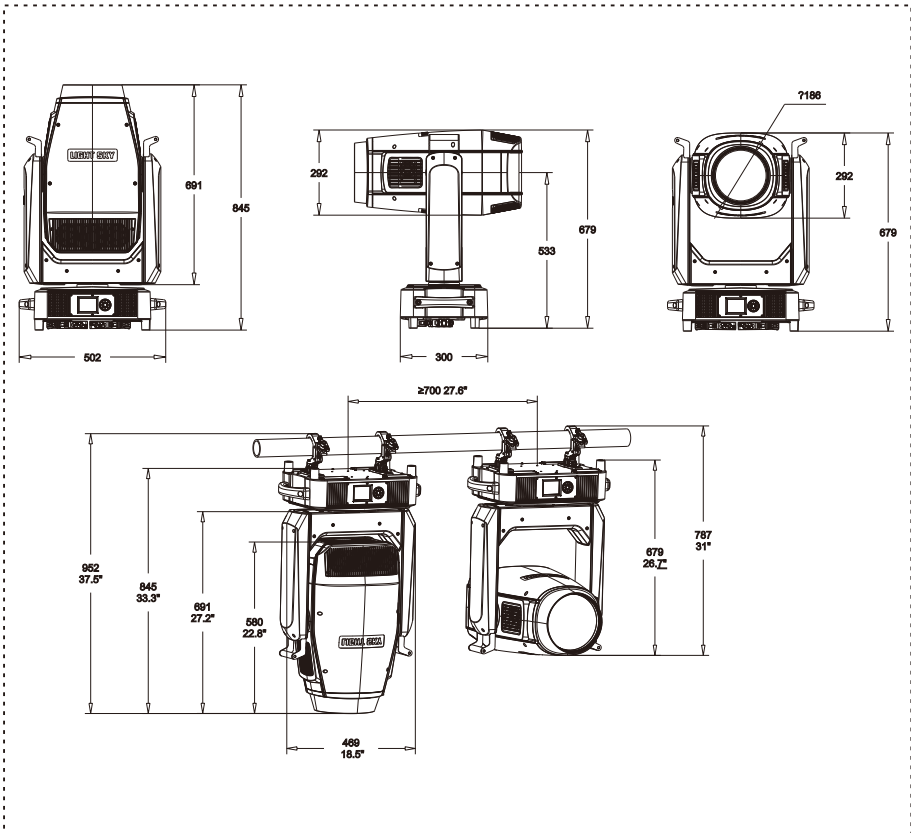


2.1.Attachment And Size

Attachment contents-Fig.1

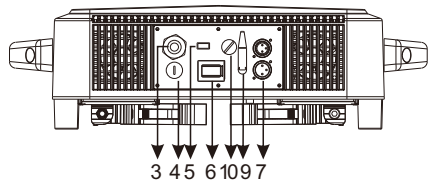
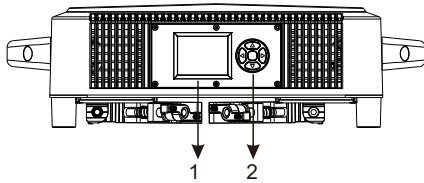


Size-Fig.2

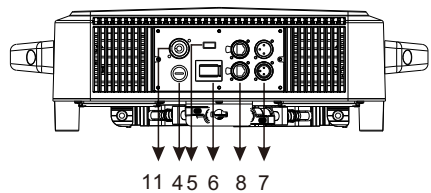
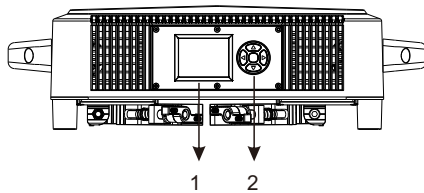


3.Control Panel

PG Version :








Neutrik Version :



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

2. Button:

	OK confirmation key
	UP
	DOWN
	To the left
	To the right

3. PG version power input: connect to the power supply

4. FUSE: 20A

5. FIRMWARE UPGRADE: Used to upgrade the fixture's firmware

6. POWER SWITCH: To turn on/off the power

7. DMX input/output: used for DMX512 connection, use 3/5 core XLR signal cable to connect console and lamps, And input/output DMX signal

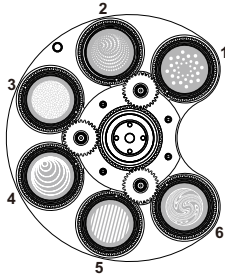
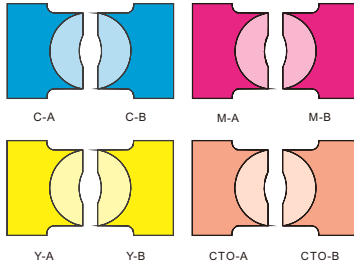
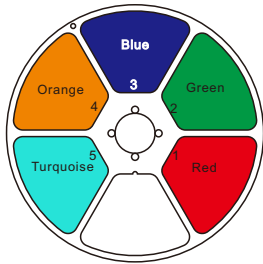
8. ART-NET: The information of the lamp can be transmitted to the main controller through the network cable, and the lamp can be controlled through RJ45 (optional)

9. 4G network module (optional)

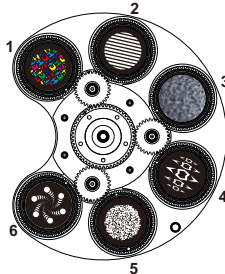
10. Wireless network module (optional)

11. socket version power input: connect the power supply

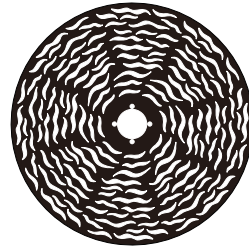
4. Effect Wheels



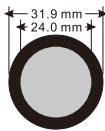
Rotating gobo wheel B



Rotating gobo wheel A



Effect disc



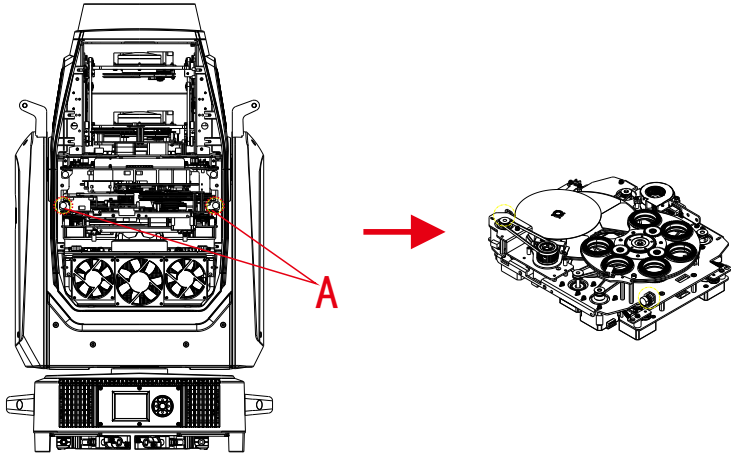
Rotation Gobo Size

Serial Number	Drawing Number	Part Number	Serial Number	Drawing Number	Part Number
A1	FG2073A	C0700590002	B1	FG2061A	C0700590008
A2	FG2068A	C0700590003	B2	FG2103A	C0700590009
A3	FG1630A	C0700590004	B3	FG2104A	C0700590010
A4	FG2101A	C0700590005	B4	FG2064A	C0700590011
A5	FG2071A	C0700590006	B5	FG2062A	C0700590012
A6	FG2102A	C0700590007	B6	FG2105A	C0700590013

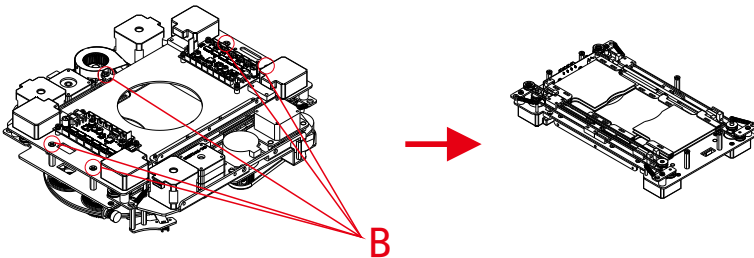
DANGER!
 Install the rotating gobos with the device switched off only.
 Unplug from mains before changing the rotating gobos!

4.1.Replacing Rotating Gobos

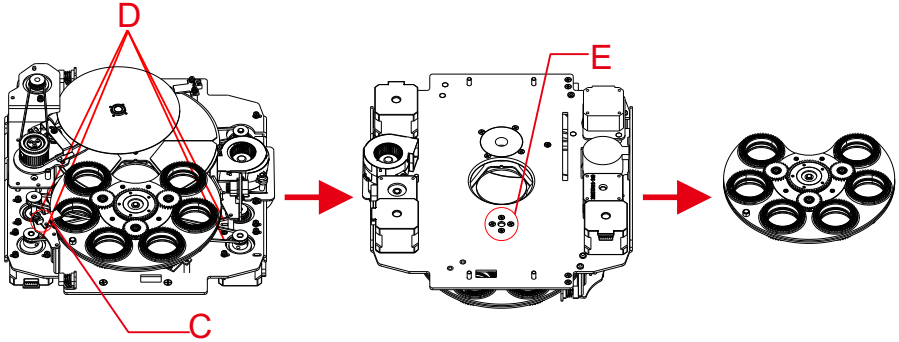
1. Use a screwdriver to unscrew the two screws at **A** to take out the pattern color module assembly;



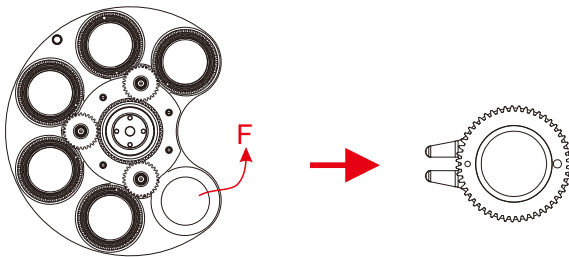
2. Reverse the assembly, and use a screwdriver to unscrew the five screws at **B** to separate the pattern color module from the CMY module;



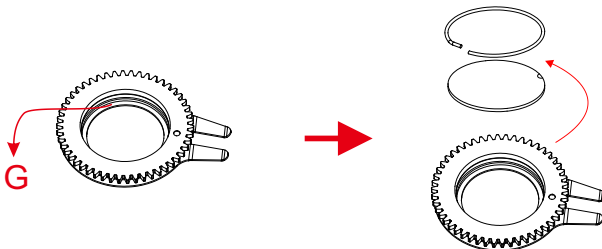
3. From the front of the pattern module, use a screwdriver to unscrew the screws of the two magnetic induction plates at **C**, and then remove the magnetic induction plates; then half loosen the motors in the four places at **D** Screws, remove the belt after moving the motor; turn the pattern module in reverse, and use a screwdriver to unscrew the four screws at **E** to take out the rotating patternDisc assembly



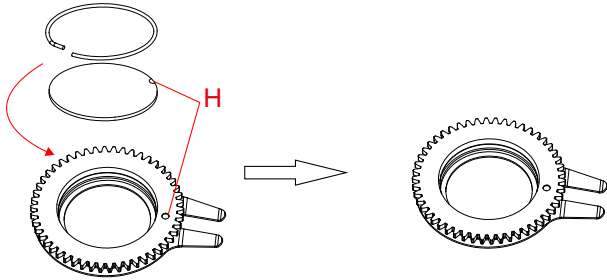
4. Gently lift the gobo holder from the edge of the rotating gobo wheel (reverse side) as **F** shows and slowly pull it out;



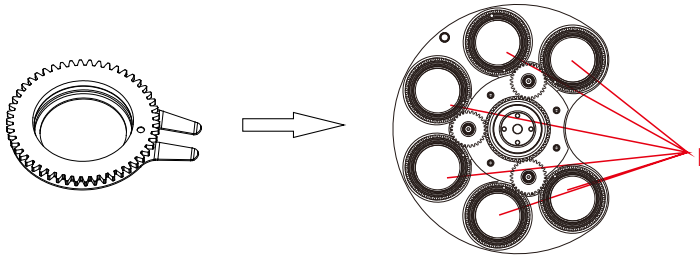
5. Remove the spring lock at **G** with an appropriate tool like tweezers (if the gobo is coated with glass glue, do remove it with some good glass cleaning fluid before removing the spring lock to avoid damage to the gobo).



6. Do not touch the surface of the gobo with bare fingers. The gobo has a small position point at its edge which has to aim at the position point on the gobo holder as **H** shows (glossy side towards the light source).



7. Insert the gobo driven wheel into the driving wheel assembly, as shown in **I**, the gobo driven wheel pit must be positioned towards the center of the driving wheel.



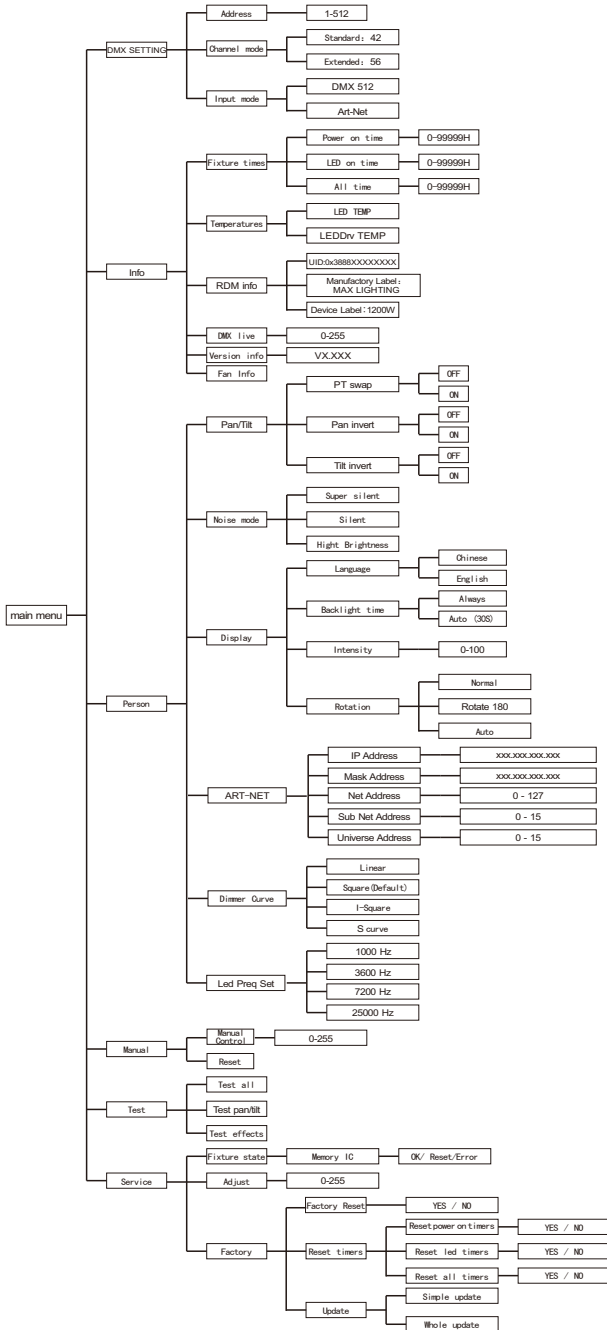
8. After installation, put the component back to the fixture.

5. How To Set The Unit

5.1. Main Function

Turn on the machine, press the OK button to enter the menu mode, use the left and right buttons to find the menu, when the preset menu is shown on the display, Press the OK button to confirm, use the Up/Down buttons to select a submenu, and press the OK button to save the setting or return to the previous menu.

The main functions are shown below :



● DMX SETTING

Enter the MENU mode, select the setting function, press the OK button to confirm, use the up/down buttons to select: address code, Channel mode, input mode.

DMX Address

Select the DMX address, press the OK button to confirm, the current DMX address will be shown on the display. Use the left/right buttons to select 001~512 address, press the OK button to save. Press the left/right button to return to the previous menu.

Channel Mode

Select Select Channel Mode, press the OK button to confirm, use the Up/Down buttons to select the Channel Mode: Standard Mode (42 channels), Expansion mode (56 channels, press the OK button to save. Press the left/right button to return to the previous menu.

Input Mode

Select the input mode, press the OK button to confirm, use the up/down buttons to select the input mode: DMX512, press the OK button to save. Press the left/right button to return to the previous menu.

● Info

Enter the MENU mode, select the device information function, press the OK button to confirm, use the up/down buttons to select: device time, device temperature, RDM information, device channel, version information, fan information.

Fixture Times

Select the device time, press the OK button to confirm, you can view the device: power-on time, lighting time, total time. Press the left/right button to go back to Previous menu.

Temperature

Select the device temperature, press the OK button to confirm, you can view the device: LED temperature, driver board temperature. Press the left/right button to return to the previous menu.

RDM Info

Select RDM information, press the OK button to confirm, you can view the device: UID. Press the left/right button to return to the previous menu.

DMX Live

Select the fan information, press the OK button to confirm, use the up and down keys to view the equipment: tail inlet fan, tail outlet fan, cutting fan, Pattern fan, focusing fan, tail inlet fan 1, tail inlet fan 2, tail inlet fan 3, tail outlet fan 1, tail outlet fan 2, tail outlet fan 3, Fan operation information such as cutting fan, CMY fan, pattern fan, bottom box fan board, etc. Press the OK button to return to the previous menu.

Version Info

Select the version information, press the OK button to confirm, use the up and down keys to view the equipment: display board, XY board, CMY module, pattern module, PCB version information of zoom module, cutting board 1, fan driver board, prism board, cutting board 2, bottom fan board, etc. Press the left/right button to go back to previous menu

Fan Info

Select the fan information, press the OK button to confirm, use the up and down keys to view the equipment: tail inlet fan, tail outlet fan, cutting fan, Pattern fan, focusing fan, tail inlet fan 1, tail inlet fan 2, tail inlet fan 3, tail outlet fan 1, tail outlet fan 2, tail outlet fan 3, Fan operation information such as cutting fan, CMY fan, pattern fan, focusing fan board, etc. Press the OK button to return to the previous menu.

● Person

Enter the MENU mode, select the Personalize function, press the OK button to confirm, use the up/down buttons to select: XY axis, noise mode, Display settings, Art-Net settings, dimming curve, Led frequency settings.

Pan/Tilt

Select the XY axis, press the OK button to confirm, you can use the up and down keys to select: XY swap, X axis reverse, Y axis reverse, press OK to enter Next menu, select: On/Off, press OK to confirm and exit, then press left/right to return to the previous menu.

Noise Mode

Select the noise mode, press the OK button to confirm, you can use the up and down keys to select: ultra-quiet mode, silent mode (default), highlight mode, Then press the left/right button to return to the previous menu.

Display

Select the display settings, press the OK button to confirm, you can use the up and down keys to select: language selection, backlight time, backlight adjustment, screen rotation, Press OK to enter the next menu level. Select language selection, use the up and down keys to select: Chinese/English, press the OK key to confirm and exit; select Backlight time (the screen backlight time can be adjusted), use the up and down keys to select: always on/auto 30S, press the OK key to confirm and exit; select the backlight Adjustment (screen brightness can be adjusted): Press the left and right keys to select any value between 0 and 100, press the OK key to confirm and exit; select screen rotation, Use the up and down keys to select: normal/rotate 180°/auto, press the OK key to confirm and exit; then press the left/right button to return to the previous menu.

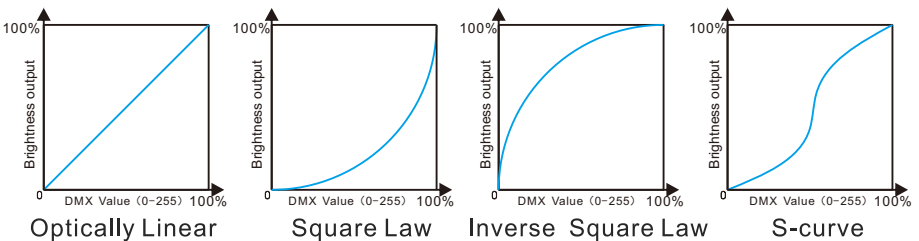
Art-Net

Select the XY axis, press the OK button to confirm, you can use the up and down keys to select: IP address, Mask address, Net address, Sub Net address, Universe address, press the OK button to confirm and enter the next menu.

Dimmer Curve

Select the dimming curve, press the OK button to confirm, you can use the up and down keys to select: square, inverse square, linear or S curve, select the desired After the mode, press the OK button to set and save. Then press the left/right button to return.

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 finer at high levels.

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

Led Freq Set

Select the Led frequency setting, press the OK button to confirm, you can use the up and down keys to select: 1000 Hz, 3600 Hz, 7200 Hz, 25000 Hz, press OK button to confirm, then press left/right button to return to the previous menu.

● Manual

Enter the **Manual** mode, select the manual function, press the middle square button to confirm, use the up/down buttons to select: manual control, reset.

Manual Control

Select manual control, press the OK button to confirm the entry, you can use the up and down keys to select each channel, press the left and right keys to adjust the value of the selected channel, Then press the OK button to return to the previous menu.

Reset

Select reset, press the OK button to confirm, you can use the up and down keys to select: machine reset, XY reset, pattern reset, color reset, To reset the cutting system, the focusing system and the effect disc, press the OK key to confirm, and then press the left/right button to return to the previous menu.

● Test

Enter the MENU mode, select the test equipment function, press the middle square button to confirm, use the up/down buttons to select: all tests, XY test, head test.

Test All

Select all tests, press OK button to confirm, all functions of the whole machine start automatic test, and then press the left/right button to return to the previous menu.

Test pan / tilt

Select pan / tilt test, press the OK button to confirm, the XY axis function of the whole machine starts to automatically test, and then press the left/right button to return to the previous menu.

Test Effects

Select the head test, press the OK button to confirm, each function of the lamp head of the whole machine will start the automatic test, and then press the left/right button to return to the previous menu.

● Service

Enter the MENU mode, select the service option function, press the OK button to confirm, use the up/down buttons to select: lamp status, calibration, Factory setting.

Fixture State

Select the lamp status, press the up and down keys to select, press the OK button to confirm, you can see: memory chip, angle sensor, level encoder, Vertical encoder, horizontal, vertical, cyan, magenta, yellow, down color temperature, color wheel, pattern 1, pattern 1 rotation, pattern 2, Pattern 2 rotation, cutting rotation, zoom, focus, prism, prism rotation and other functions of the running status and error records, and then press the left/right button to return to the previous menu.

Adjust

Select calibration, press the up and down keys to select, press the OK button to confirm, you can fine-tune the position of the following functions from 0 to 255 (default 128): horizontal, Vertical, Cyan, Magenta, Yellow, Down Color Temperature, Color Wheel, Rotation Pattern 1, Pattern 1 Rotation, Rotation Pattern 2, Pattern 2 Rotation, Blade Up 1, Blade Up 2, Blade Down 1, Blade Down 2, Blade Left 1, Blade Left 2, Blade Right 1, Blade Right 2, Cutting Rotation, Prism, Effect Disc, Display Finger, Fog 1, Fog 2, Aperture, Zoom, Focus, Dimming, Focus Pattern 1, Focus Pattern 2, Focus Aperture, etc. and then press the left/right button to return to the previous menu.

Factory

Select the factory settings, press the up and down keys to select, press the OK button to confirm, you can choose: factory reset, clear time, software upgrade, power Adjustment, power selection and other functions, note that this function is factory set

5.2. Home Position Adjustment

Press the OK button to enter the menu mode, press the up and down buttons to select, press the OK button to confirm, you can fine-tune the position of the following functions from 0 to 255 (default 128), then press the left/right button to return to the previous menu.

Adjust	Pan	0 - 255
	Tilt	0 - 255
	Cyan	0 - 255
	Magenta	0 - 255
	Yellow	0 - 255
	CTO	0 - 255
	Colour wheel	0 - 255
	Gobo1	0 - 255
	Gobo1.rot	0 - 255
	Gobo2	0 - 255
	Gobo2.rot	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 RF1	0 - 255
	Blade RF2	0 - 255
	Framingrotat	0 - 255
	Prism	0 - 255
	Effect	0 - 255
	CIR	0 - 255
	Frost 1	0 - 255
	Frost 2	0 - 255
	Iris	0 - 255
	Zoom	0 - 255
	Focus	0 - 255
	Dimmer	0 - 255
	FosForGobo1	0 - 255
FosForGobo2	0 - 255	
FosForIris	0 - 255	

Pan

Enter the initial setting menu, use the up and down keys to select the **Pan** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

Tilt

Enter the initial setting menu, use the up and down keys to select the **Tilt** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

Cyan

Enter the initial setting menu, use the up and down keys to select the **Cyan** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

Magenta

Enter the initial setting menu, use the up and down keys to select the **Magenta** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

Yellow

Enter the initial setting menu, use the up and down keys to select the **yellow** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

CTO

Enter the initial setting menu, use the up and down keys to select the **CTO** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Color Wheel

Enter the initial setting menu, use the up and down keys to select the **Color Wheel** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

Gobo1

Enter the initial setting menu, use the up and down keys to select the **Gobo1** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Gobo1.rot

Enter the initial setting menu, use the up and down keys to select the **Gobo1.rot** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Gobo2

Enter the initial setting menu, use the up and down keys to select the **Gobo2** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Gobo2.rot

Enter the initial setting menu, use the up and down keys to select the **Gobo2.rot** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Blade UP1

Enter the initial setting menu, use the up and down keys to select channel **Blade UP1**, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. To calibrate, press the OK button to save and exit.

Blade UP2

Enter the initial setting menu, use the up and down keys to select the channels **Blade UP2**, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Blade DW1

Enter the initial setting menu, use the up and down keys to select the lower channel **Blade DW1**, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, perform calibration, press the OK button to save and exit.

Blade DW2

Enter the initial setting menu, use the up and down keys to select the lower channels **Blade DW2**, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, perform calibration, press the OK button to save and exit.

Blade LF1

Enter the initial setting menu, use the up and down keys to select the left channel **Blade LF1**, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

Blade LF 2

Enter the initial setting menu, use the up and down keys to select the left channels **Blade LF 2**, and use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Blade RF1

Enter the initial setting menu, use the up and down keys to select the right channel **Blade RF1**, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Blade RF2

Enter the initial setting menu, use the up and down keys to select the right channel **Blade RF2**, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

Framing Rotat

Enter the initial setting menu, use the up and down keys to select the **Framing Rotat** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, perform calibration, press the OK button to save and exit.

Prism

Enter the initial setting menu, use the up and down keys to select the **Prism** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

Effect

Enter the initial setting menu, use the up and down keys to select the **Effect** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

CRI

Enter the initial setting menu, use the up and down keys to select the **CRI** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Frost 1

Enter the initial setting menu, use the up and down keys to select the **Frost 1** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Frost 2

Enter the initial setting menu, use the up and down keys to select the **Frost 2** channels, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Iris

Enter the initial setting menu, use the up and down keys to select the **Iris** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Zoom

Enter the initial setting menu, use the up and down keys to select the **Zoom** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Focusing

Enter the initial setting menu, use the up and down keys to select the **Focusing** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

Dimmer

Enter the initial setting menu, use the up and down keys to select the **Dimmer** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, and the default initial position is 128. Perform calibration, press the OK button to save and exit.

FosFor Gobo1

Enter the initial setting menu, use the up and down keys to select **FosFor Gobo1** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

FosFor Gobo2

Enter the initial setting menu, use the up and down keys to select **FosFor Gobo2** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

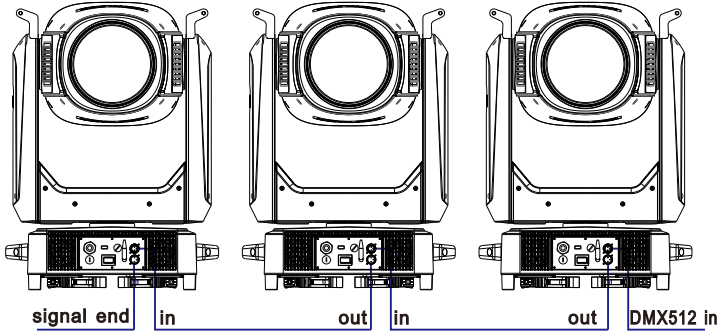
FosForIris

Enter the initial setting menu, use the up and down keys to select **FosForIris** channel, use the left and right keys to adjust the DMX value, the adjustment range is 0-255, the default initial position is 128, calibrate, press the OK button to save and exit.

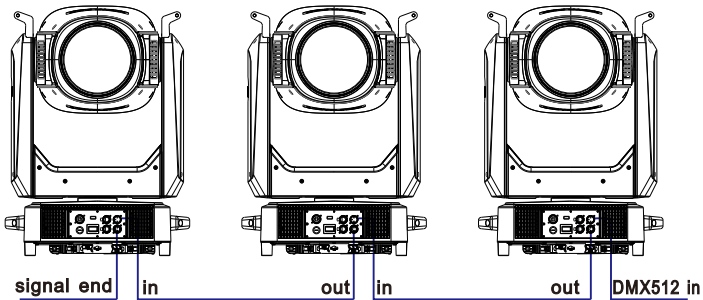
6. Control By Universal DMX Controller

6.1. DMX 512 Connection

PG Version

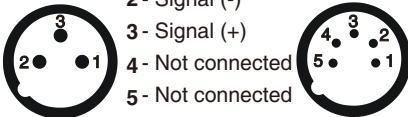


Neutrik Version



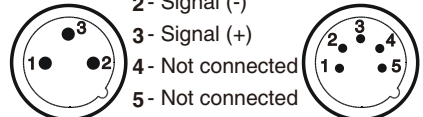
DMX - output

- 1- Shield
- 2- Signal (-)
- 3- Signal (+)
- 4- Not connected
- 5- Not connected



DMX-input

- 1- Shield
- 2- Signal (-)
- 3- Signal (+)
- 4- Not connected
- 5- Not connected



1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 1200hm 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.Channel Setting

Press the OK button to confirm, use the up/down buttons to select the channel mode: standard mode (42CH), extended mode (56CH), press the OK button to save.Press the left/right button to return to the previous menu.

6.3.Address Setting

When using a universal DMX controller to control the fixture, you need to set the starting address (1-512) for the fixture so that the machine can receive to the DMX signal.Select the DMX address, press the OK button to confirm, the current DMX address will be shown on the display. Use the left/right buttons to select 001~512 address, press the OK button to save. Press the left/right button to return to the previous menu.

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
42 Channel	1	43	85	127
56 Channel	1	57	113	169

6.4.DMX 512 Configuration

Please control the fixture by referring to the configurations below

42 Channels (Mode1)

Channel	DMX	Function	Note
1	0 - 255	Pan Pan movement/positioning	
2	0 - 255	Pan fine Fine Pan positioning	
3	0 - 255	TILT Tilt movement/positioning	
4	0 - 255	TILT fine Fine Tilt movement/positioning	
5	0 - 10 11 - 20 21 - 30 31 - 40 41 - 50 51 - 60 61 - 70 71 - 80 81 - 90 91 - 100 101 - 110 111 - 120 121 - 130 131 - 140 141 - 150 151 - 160 161 - 170 171 - 180 181 - 190	Functions NO function All Reset XY Reset Color System Reset Gobo System Reset Profile System Reset Focus System Reset Super silent Silent High Brightness Effect Reset NO function NO function NO function NO function NO function NO function NO function NO function NO function Display Back light is Auto	
	191 - 200 201 - 255	function Open NO function	The console hits this position and waits for about 5 seconds. After the function is turned on, it will be effective after turning on the "silent mode". It is not necessary to turn on this function when performing the reset function. This "open function" will not be stored, it will still be closed after the next boot, and this function needs to be activated again.
6	0 - 255	Cyan White→full cyan	
7	0 - 255	Magenta White → full magenta	
8	0 - 255	Yellow White→ full yellow	
9	0 - 255	CTO Color Temperature from Deep to Light	
10	0 - 89 90 - 104 105 - 119 120 - 134 135 - 149 150 - 164 165 - 179 180 - 214 215 - 249 250 - 255	Colour wheel 0 - 360° OPEN COLOR1 COLOR2 COLOR3 COLOR4 COLOR5 Forwards Color rotation from slow to fast Backwards Color rotation from fast to slow Random	
11	0 - 9 10 - 19	Gobo1 Open GOB01	

Channel	DMX	Function	Note
11	20 - 29	GOB02	
	30 - 39	GOB03	
	40 - 49	GOB04	
	50 - 59	GOB05	
	60 - 69	GOB06	
	70 - 79	Gobo 1 shake slow to fast/ GOB01	
	80 - 89	Gobo 2 shake slow to fast/GOB02	
	90 - 99	Gobo 3 shake slow to fast/GOB03	
	100 - 109	Gobo 4 shake slow to fast/GOB04	
	110 - 119	Gobo 5 shake slow to fast/GOB05	
	120 - 129	Gobo 6 shake slow to fast/GOB06	
130 - 139	OPEN		
140 - 193	Forwards gobo rotation from slow to fast		
194 - 249	Backwards gobo rotation from fast to slow		
250 - 255	Random Gobo		
12	0 - 127	Gobo1 Rotation 0° - 360°	
	128 - 189	Forwards gobo rotation from fast to slow	
	190 - 193	Gobo rotation stop	
	194 - 255	Backwards gobo rotation from slow to fast	
13	0 - 9	Gobo2 Open	
	10 - 19	GOB01	
	20 - 29	GOB02	
	30 - 39	GOB03	
	40 - 49	GOB04	
	50 - 59	GOB05	
	60 - 69	GOB06	
	70 - 79	Gobo 1 shake slow to fast/ GOB01	
	80 - 89	Gobo 2 shake slow to fast/GOB02	
	90 - 99	Gobo 3 shake slow to fast/GOB03	
	100 - 109	Gobo 4 shake slow to fast/GOB04	
	110 - 119	Gobo 5 shake slow to fast/GOB05	
	120 - 129	Gobo 6 shake slow to fast/GOB06	
130 - 139	OPEN		
140 - 193	Forwards gobo rotation from slow to fast		
194 - 249	Backwards gobo rotation from fast to slow		
250 - 255	Random Gobo		
14	0 - 127	Gobo2 Rotation 0° - 360°	
	128 - 189	Forwards gobo rotation from fast to slow	
	190 - 193	Gobo rotation stop	
	194 - 255	Backwards gobo rotation from slow to fast	
15	0 - 255	Blade UP1 Blade Out→In	
16	0 - 255	Blade UP2 Blade Out→In	
17	0 - 255	Blade DW1 Blade Out→In	
18	0 - 255	Blade DW2 Blade Out→In	
19	0 - 255	Blade LF1 Blade Out→In	
20	0 - 255	Blade LF2 Blade Out→In	
21	0 - 255	Blade RF1 Blade Out→In	
22	0 - 255	Blade RF2 Blade Out→In	
23	0 - 255	Framing Rotation 0° - 120°	

Channel	DMX	Function	Note
24	0 - 10	No function	
	11 - 20	Square	
	21 - 30	rectangle	
	31 - 40	Isosceles triangle	
	41 - 50	trapezoidal	
	51 - 60	The Fan(Facing Up)	
	61 - 70	parallelogram	
	71 - 80	Right Angle trapezoid	
	81 - 90	The Fan(Down)	
	91 - 100	triangle	
	101 - 110	prismatic	
	111 - 120	The stripes	
	121 - 130	bar	
	131 - 140	Upper left quadrant	
	141 - 150	semicircle (Up)	
	151 - 160	Upper right quadrant	
	161 - 170	Right semicircle	
171 - 180	Right lower quadrant		
181 - 190	Semicircle (Down)		
191 - 200	The lower left quadrant		
201 - 255	Left Semicircle		
25		Framing Macro Zoom	
	0 - 255	Framing Macro Zoom	
26		Prism	
	0 - 10	Prism Out	
	11 - 255	Prism In	
27		Prism Rotation	
	0	No Function	
	1 - 63	0--360°	
	64 - 127	Forwards rotation from fast to slow	
	128 - 191	Backwards rotation from slow to fast	
	192 - 207	from slow to fast 90° Swing	
	208 - 223	from slow to fast 180° Swing	
224 - 239	from slow to fast 270° Swing		
240 - 255	from slow to fast 360° Swing		
28		Effect	
	0 - 9	Effect Out	
	10 - 255	Effect In	
29		Effect Rotation	
	0 - 2	No Function	
	3 - 130	Forwards rotation from fast to slow	
	131 - 255	Backwards rotation from fast to slow	
30		CRI	
	0 - 9	CRI Out	
	10 - 255	CRI In	
31		Frost1	
	0 - 127	Frost From Min To Max	
	128 - 159	No Function	
	160 - 191	No Function	
	192 - 255	No Function	
32		Frost2	
	0 - 127	Frost From Min To Max	
	128 - 159	No Function	
	160 - 191	No Function	
	192 - 255	No Function	
33		Iris	
	0 - 127	From Max To Min	
	128 - 159	Slow In Fast Out from slow to fast	
	160 - 191	Fast In Slow Out from slow to fast	
	192 - 255	Slow In Slow Out from slow to fast	

Channel	DMX	Function	Note
34	0 - 255	Zoom WIDE BEAM→NARROW BEAM	
35	0 - 255	Focus Infinity→near	
36	0 - 255	Focus Fine Fine Focus positioning	
37	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 255	Autofocus Distance NO function 7M 10M 15M 20M 25M 30M 40M 50M	
38	0 - 255	Autofocus Adjustment Auto Focus Fine	
39	0 - 9 10 - 49 50 - 89 90 - 119 120 - 179 180 - 255	Strobe No Function From fast to slow, fast off and slow on From fast to slow, fast on and slow off No Function Random strobe, slow → fast Strobe, slow → fast	
40	0 - 255	Dimmer Dimmer from Dark To Bright	
41	0 - 255	Dimmer Fine Dimmer Fine	
42	0 - 15 16 - 255	Gobo Macro No Function Gobo Macro Function	

56 Channels (Mode2)

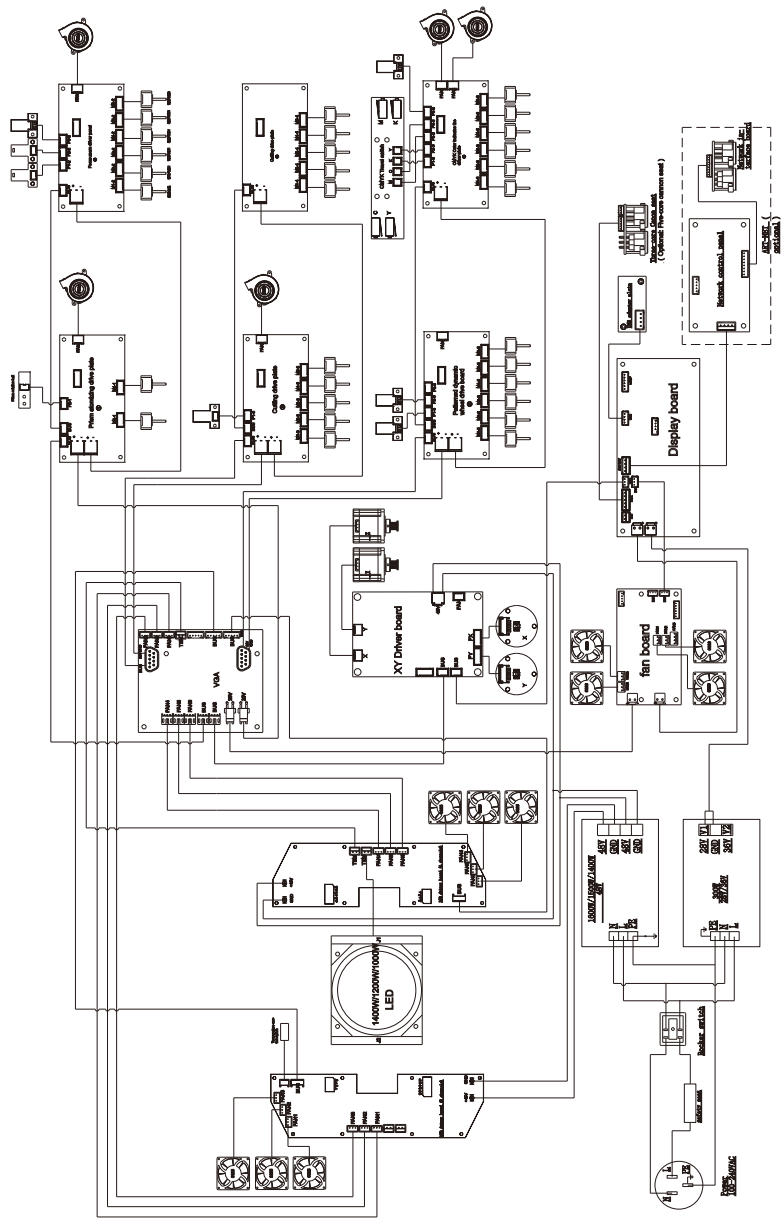
Channel	DMX	Function	Note
1	0 - 255	Pan Pan movement/positioning	
2	0 - 255	Pan fine Fine Pan positioning	
3	0 - 255	TILT Tilt movement/positioning	
4	0 - 255	TILT fine Fine Tilt movement/positioning	
5	0 - 255	PAN TILT Speed Pan Tilt movement Speed From Fast To Slow	
6	11 - 20 21 - 30 31 - 40 41 - 50 51 - 60 61 - 70 71 - 80 81 - 90 91 - 100 101 - 110 111 - 120 121 - 130 131 - 140 141 - 150 151 - 160 161 - 170 171 - 180 181 - 190 191 - 200 201 - 255	Functions All Reset XY Reset Color System Reset Gobo System Reset Profile System Reset Focus System Reset Super silent Silent High Brightness Effect Reset NO function NO function NO function NO function NO function NO function NO function NO function Display Back light is Auto function Open NO function	
7	0 - 255	Cyan White→full cyan	
8	0 - 255	Cyan Fine Cyan Fine movement/positioning	
9	0 - 255	Magenta White → full magenta	
10	0 - 255	Magenta Fine Magenta Fine movement/positioning	
11	0 - 255	Yellow White→ full yellow	
12	0 - 255	Yellow Fine Yellow Fine movement/positioning	
13	0 - 255	CTO Color Temperature from Deep to mall	
14	0 - 255	CTO Fine CTO Fine movement/positioning	
15	0 - 89 90 - 104 105 - 119 120 - 134 135 - 149 150 - 164 165 - 179 180 - 214 215 - 249 250 - 255	Colour wheel 0° - 360° OPEN COLOR1 COLOR2 COLOR3 COLOR4 COLOR5 Forwards Color rotation from slow to fast Backwards Color rotation from fast to slow Random	
16	0 - 9 10 - 19	Gobol Open GOB01	

Channel	DMX	Function	Note
16	20 - 29	GOB02	
	30 - 39	GOB03	
	40 - 49	GOB04	
	50 - 59	GOB05	
	60 - 69	GOB06	
	70 - 79	Gobo 1 shake slow to fast/ GOB01	
	80 - 89	Gobo 2 shake slow to fast/GOB02	
	90 - 99	Gobo 3 shake slow to fast/GOB03	
	100 - 109	Gobo 4 shake slow to fast/GOB04	
	110 - 119	Gobo 5 shake slow to fast/GOB05	
	120 - 129	Gobo 6 shake slow to fast/GOB06	
	130 - 139	OPEN	
	140 - 193	Forwards gobo rotation from slow to fast	
	194 - 249	Backwards gobo rotation from fast to slow	
250 - 255	Random Gobo		
17	0 - 127	Gobo1 Rotation 0° - 360°	
	128 - 189	Forwards gobo rotation from fast to slow	
	190 - 193	Gobo rotation stop	
	194 - 255	Backwards gobo rotation from slow to fast	
18	0 - 9	Gobo2 Open	
	10 - 19	GOB01	
	20 - 29	GOB02	
	30 - 39	GOB03	
	40 - 49	GOB04	
	50 - 59	GOB05	
	60 - 69	GOB06	
	70 - 79	Gobo 1 shake slow to fast/ GOB01	
	80 - 89	Gobo 2 shake slow to fast/GOB02	
	90 - 99	Gobo 3 shake slow to fast/GOB03	
	100 - 109	Gobo 4 shake slow to fast/GOB04	
	110 - 119	Gobo 5 shake slow to fast/GOB05	
	120 - 129	Gobo 6 shake slow to fast/GOB06	
	130 - 139	OPEN	
140 - 193	Forwards gobo rotation from slow to fast		
194 - 249	Backwards gobo rotation from fast to slow		
250 - 255	Random Gobo		
19	0 - 127	Gobo2 Rotation 0° - 360°	
	128 - 189	Forwards gobo rotation from fast to slow	
	190 - 193	Gobo rotation stop	
	194 - 255	Backwards gobo rotation from slow to fast	
20	0 - 255	Blade UP1 Blade Out→In	
21	0 - 255	Blade UP1 Fine Fine Blade positioning	
22	0 - 255	Blade UP2 Blade Out→In	
23	0 - 255	Blade UP2 Fine Fine Blade positioning	
24	0 - 255	Blade DW1 Blade Out→In	
25	0 - 255	Blade DW1 Fine Fine Blade positioning	
26	0 - 255	Blade DW2 Blade Out→In	
27	0 - 255	Blade DW2 Fine Fine Blade positioning	

Channel	DMX	Function	Note
28	0 - 255	Blade LF1 Blade Out→In	
29	0 - 255	Blade LF1 Fine Fine Blade positioning	
30	0 - 255	Blade LF2 Blade Out→In	
31	0 - 255	Blade LF2 Fine Fine Blade positioning	
32	0 - 255	Blade RF1 Blade Out→In	
33	0 - 255	Blade RF1 Fine Fine Blade positioning	
34	0 - 255	Blade RF2 Blade Out→In	
35	0 - 255	Blade RF2 Fine Fine Blade positioning	
36	0 - 255	Framing Rotation 0° - 90°	
37	0 - 10 11 - 20 21 - 30 31 - 40 41 - 50 51 - 60 61 - 70 71 - 80 81 - 90 91 - 100 101 - 110 111 - 120 121 - 130 131 - 140 141 - 150 151 - 160 161 - 170 171 - 180 181 - 190 191 - 200 201 - 255	Framing Macro No function Square rectangle Isosceles triangle trapezoidal The Fan (Facing Up) parallelogram Right Angle trapezoid The Fan (Down) triangle prismatic The stripes bar Upper left quadrant semicircle (Up) Upper right quadrant Right semicircle Right lower quadrant Semicircle (Down) The lower left quadrant Left Semicircle	
38	0 - 255	Framing Macro Zoom Framing Macro Zoom	
39	0 - 10 11 - 255	Prism Prism Out Prism In	
40	0 1 - 63 64 - 127 128 - 191 192 - 207 208 - 223 224 - 239 240 - 255	Prism Rotation No Function 0°-360° Forwards rotation from fast to slow Backwards rotation from slow to fast from slow to fast 90° Swing from slow to fast 180° Swing from slow to fast 270° Swing from slow to fast 360° Swing	
41	0 - 9 10 - 255	Effect Effect Out Effect In	
42	0 - 2 3 - 130 131 - 255	Effect Rotation No Function Forwards rotation from fast to slow Backwards rotation from fast to slow	

Channel	DMX	Function	Note
43	0 - 9	CRI Out	
	10 - 255	CRI In	
44	0 - 127	Frost1 Frost From Min To Max	
	128 - 159	No Function	
	160 - 191	No Function	
	192 - 255	No Function	
45	0 - 127	Frost2 Frost From Min To Max	
	128 - 159	No Function	
	160 - 191	No Function	
	192 - 255	No Function	
46	0 - 127	Iris From Max To Min	
	128 - 159	Slow In Fast Out from slow to fast	
	160 - 191	Fast In Slow Out from slow to fast	
	192 - 255	Slow In Slow Out from slow to fast	
47	0 - 255	Zoom WIDE BEAM→NARROW BEAM	
	0 - 255	ZoomFine Fine Zoom positioning	
49	0 - 255	Focus Infinity→near	
	0 - 255	Focus Fine Fine Focus positioning	
51	0 - 9	Autofocus Distance NO function	
	10 - 19	7M	
	20 - 29	10M	
	30 - 39	15M	
	40 - 49	20M	
	50 - 59	25M	
	60 - 69	30M	
	70 - 79	40M	
	80 - 255	50M	
52	0 - 255	Autofocus Adjustment Auto Focus Fine	
	0 - 9	Strobe No Function	
53	10 - 49	From fast to slow, fast off and slow on	
	50 - 89	From fast to slow, fast on and slow off	
	90 - 119	No Function	
	120 - 179	Random strobe, slow → fast	
	180 - 255	Strobe, slow → fast	
54	0 - 255	Dimmer Dimmer from Dark To Bright	
	0 - 255	Dimmer Fine Dimmer Fine	
56	0 - 15	Gobo Macro No Function	
	16 - 255	Gobo Macro Function	

7. Electrical Connection Diagram



8. Error Information

Error messages will be displayed under the **Fixture state** status menu when the fixture fails and they will not disappear until the fixture is repaired.

1. Memory IC:

Check whether the **Memory IC** is damaged.

Check whether the related circuit of the **Memory IC** is damaged.

2. Angle sensor:

Check the **Angle sensor** chip for damage.

Check whether the related circuit of the **Angle sensor** chip is damaged.

3. Pan Encoder:

Check whether the connection wire connecting the **X-axis** magnetic induction board is in poor contact or disconnected.

Check whether the related circuit of the **X-axis** motor driver board is damaged.

Check the **X-axis** magnetic plate for looseness, falling off or damage.

4. Tilt Encoder:

Check whether the connecting wire connecting the **Y-axis** magnetic induction board is in poor contact or disconnected.

Check whether the related circuit of the **Y-axis** motor driver board is damaged.

Check whether the **Y-axis** magnetic induction plate is loose, dropped or damaged.

5. Pan:

Check whether there are other objects in the **X-axis** running range interfering with its running and reset.

Check whether the connection wire connecting the **X-axis** magnetic induction board is in poor contact or disconnected.

Check the **X-axis** magnetic plate for looseness, falling off or damage.

Check whether the related circuit of the **X-axis** motor driver board is damaged.

Check if the **X-axis** motor is damaged.

6. Tilt:

Check whether there are other objects in the **Y-axis** running range interfering with its running and reset.

Check whether the connecting wire connecting the **Y-axis** magnetic induction board is in poor contact or is disconnected.

Check the **Y-axis** magnetic induction plate for looseness, falling off or damage.

Check whether the related circuit of the **Y-axis** motor driver board is damaged.

Check if the **Y-axis** motor is damaged.

7. Cyan:

Check whether there are other objects in the operation range of the **C** color film interfering with its operation and reset.

Check whether the connection line connecting the **C** color chip and the magnetic induction board is in poor contact or disconnected.

Check the **C** color chip magnets for looseness, falling off, or damage.

Check whether the **C** color chip magnetic plate is loose, fallen off or damaged.

Check whether the related circuit of the **C** color chip motor driver board is damaged.

Check whether the **C** color chip motor is damaged.

8. Magenta:

Check whether there are other objects in the operating range of the **M** color film interfering with its operation and reset.

Check whether the connection line connecting the **M** color chip magnetic induction board is in poor contact or disconnected.

Check if the **M** color chip magnet is loose, dropped or damaged.

Check whether the **M** color chip magnetic plate is loose, falling off or damaged.

Check whether the related circuit of the **M** color chip motor driver board is damaged.

Check if the **M** color chip motor is damaged.

9. Yellow:

Check whether there are other objects in the operation range of the **Y** color film interfering with its operation and reset.

Check whether the connecting wire connecting the **Y**-color chip magnetic induction board is in poor contact or disconnected.

Check the **Y**-chip magnets for looseness, falling off, or damage.

Check whether the **Y** color chip magnetic induction board is loose, fallen off or damaged.

Check whether the related circuit of the **Y** color chip motor driver board is damaged.

Check if the **Y** chip motor is damaged.

10. CTO:

Check whether there are other objects in the operation range of the **CTO** color film interfering with its operation and reset.

Check whether the connecting wire connecting the **CTO** color chip magnetic induction board is in poor contact or disconnected.

Check the **CTO** chip magnets for looseness, falling off, or damage.

Check the **CTO** color chip magnetic plate for looseness, falling off or damage.

Check whether the related circuit of the **CTO** color chip motor driver board is damaged.

Check the **CTO** chip motor for damage.

11. Color wheel:

Check whether there are other objects in the operation range of the **color wheel** interfering with its operation and reset.

Check whether the connection line connecting the **color wheel** and the magnetic induction board is in poor contact or disconnected.

Check the **color wheel** magnets for looseness, falling off, or damage.

Check the **color wheel** magnetic plate for looseness, falling off or damage.

Check whether the related circuit of the **color wheel** motor driver board is damaged.

Check the **color wheel** motor for damage.

12. Gobo1:

Check whether there are other objects in the revolution and operation range of **Gobo1** interfering with its operation and reset.

Check whether the connection line of the connection **Gobo1** male wheel magnetic induction board is in poor contact or disconnected.

Check if the revolving magnet of **Gobo1** is loose, fallen off or damaged.

Check the **Gobo1** revolution magnetic induction plate for looseness, falling off or damage.

Check if the circuit related to the **Gobo1** revolution motor driver board is damaged.

Check if the **Gobo1** revolution motor is damaged.

13. Gobo1 Rot.:

Check whether there are other objects in the revolution and operation range of **Gobo1 Rot.** interfering with its operation and reset.

Check whether the connection line of the connection **Gobo1 Rot.** male wheel magnetic induction board is in poor contact or disconnected.

Check if the revolving magnet of **Gobo1 Rot.** is loose, fallen off or damaged.

Check the **Gobo1 Rot.** revolution magnetic induction plate for looseness, falling off or damage.

Check if the circuit related to the **Gobo1 Rot.** revolution motor driver board is damaged.

Check if the **Gobo1 Rot.** revolution motor is damaged.

14. Gobo2:

Check whether there are other objects in the revolution and operation range of **Gobo2** interfering with its operation and reset.

Check whether the connection line of the connection **Gobo2** male wheel magnetic induction board is in poor contact or disconnected.

Check if the revolving magnet of **Gobo2** is loose, fallen off or damaged.

Check the **Gobo2** revolution magnetic induction plate for looseness, falling off or damage.

Check if the circuit related to the **Gobo2** revolution motor driver board is damaged.

Check if the **Gobo2** revolution motor is damaged.

15. Gobo2 Rot.:

Check whether there are other objects in the revolution and operation range of **Gobo2 Rot.** interfering with its operation and reset.

Check whether the connection line of the connection **Gobo2 Rot.** male wheel magnetic induction board is in poor contact or disconnected.

Check if the revolving magnet of **Gobo2 Rot.** is loose, fallen off or damaged.

Check the **Gobo2 Rot.** revolution magnetic induction plate for looseness, falling off or damage.

Check if the circuit related to the **Gobo2 Rot.** revolution motor driver board is damaged.

Check if the **Gobo2 Rot.** revolution motor is damaged.

16. Fram Rot.:

Check whether there are other objects in the revolution and operation range of **Fram Rot.** interfering with its operation and reset.

Check whether the connection line of the connection **Fram Rot.** male wheel magnetic induction board is in poor contact or disconnected.

Check if the revolving magnet of **Fram Rot.** is loose, fallen off or damaged.

Check the **Fram Rot.** revolution magnetic induction plate for looseness, falling off or damage.

Check if the circuit related to the **Fram Rot.** revolution motor driver board is damaged.

Check if the **Fram Rot.** revolution motor is damaged.

17. Zoom:

Check whether there are other objects in the revolution and operation range of **Zoom** interfering with its operation and reset.

Check whether the connection line of the connection **Zoom** male wheel magnetic induction board is in poor contact or disconnected.

Check if the revolving magnet of **Zoom** is loose, fallen off or damaged.

Check the **Zoom** revolution magnetic induction plate for looseness, falling off or damage.

Check if the circuit related to the **Zoom** revolution motor driver board is damaged.

Check if the **Zoom** revolution motor is damaged.

18. Focus:

Check whether there are other objects in the revolution and operation range of **Focus** interfering with its operation and reset.

Check whether the connection line of the connection **Focus** male wheel magnetic induction board is in poor contact or disconnected.

Check if the revolving magnet of **Focus** is loose, fallen off or damaged.

Check the **Focus** revolution magnetic induction plate for looseness, falling off or damage.

Check if the circuit related to the **Focus** revolution motor driver board is damaged.

Check if the **Focus** revolution motor is damaged.

19. Prism:

Check whether there are other objects in the revolution and operation range of **Prism** interfering with its operation and reset.

Check whether the connection line of the connection **Prism** male wheel magnetic induction board is in poor contact or disconnected.

Check if the revolving magnet of **Prism** is loose, fallen off or damaged.

Check the **Prism** revolution magnetic induction plate for looseness, falling off or damage.

Check if the circuit related to the **Prism** revolution motor driver board is damaged.

Check if the **Prism** revolution motor is damaged.

20. Prism Rot.:

Check whether there are other objects in the revolution and operation range of **Prism Rot.** interfering with its operation and reset.

Check whether the connection line of the connection **Prism Rot.** male wheel magnetic induction board is in poor contact or disconnected.

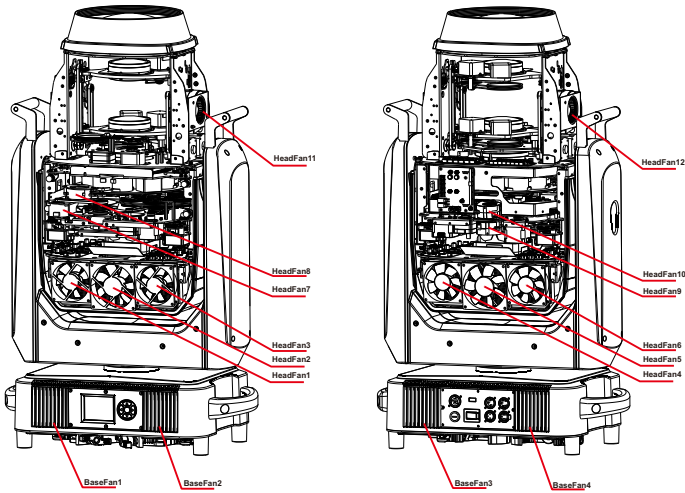
Check if the revolving magnet of **Prism Rot.** is loose, fallen off or damaged.

Check the **Prism Rot.** revolution magnetic induction plate for looseness, falling off or damage.

Check if the circuit related to the **Prism Rot.** revolution motor driver board is damaged.

Check if the **Prism Rot.** revolution motor is damaged.

The position of each fan of the fixture:



9. 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

- Check the connected power.
- Measure the voltage.
- Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

- Check whether the DMX connectors and the DMX cables are connected correctly.
- Check whether the DMX address is correctly set.
- If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.
- Try it with another DMX controller.
- 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

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

10. 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 and the internal optical lens every 30 days.

CAUTION ! ! !

Disconnect from mains before starting maintenance operation.

11. Duty exonerative and copyright protectio

- * Light source belongs to consumption products, not within the scope of warranty.
- * The manufacturer shall not bear any responsibility for any damage caused by failure to operate in accordance with this instruction.
- * All the information in this manual shall be interpreted by the manufacturer.
- * All the information in this manual shall not be copied without permission.
- * The data contained in this statement are subject to change in the future without prior notice.