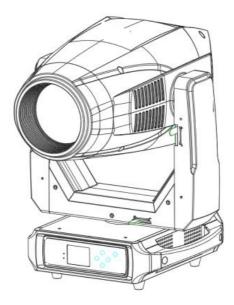


User Manual LED MOVING HEAD

LEADER 550P



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1. SAFETY GUIDE

 \wedge

Please read this manual carefully, it includes Important information

such as installation, use and maintenance.

PAY ATTENTION

Please save this manual as a basis for future consultation, if you sell this product to other users, please make sure they also get this manual.

Notice:

The equipment is well-packaged when shipped from the factory. Please follow the user manual for operation. Human failures are not covered by the warranty.

•Before using, please open it and check carefully to ensure that there is no damage caused by transportation.

•This lamp is only suitable for indoor dry place.

•The installation and operation of lamps should be carried out by professionals.

•Do not let children operate the machine.

•Use safety ropes when fixing the device, and hold the bottom when moving the lamp.

•The equipment must be installed in a well-ventilated place, at least 50 cm from the adjacent surface.

•Make sure the ventilation holes are unobstructed to avoid overheating when the lamp is running.

•Before operation, ensure that the power supply voltage matches the equipment.

- •Please ground the conductor to prevent electric shock.
- •Do not operate the lamp in an environment above 40°C.
- •It is forbidden to connect the lamp directly to the dimming equipment.

•A small amount of smoke or odor may appear when the new lamp works, and it will disappear after 15 minutes of operation.

•Do not place combustible objects beside the lamps during operation.

•Please carefully check whether the power cord is damaged before turning on the lamp, and replace it immediately if it is damaged.

•The surface temperature can reach 85°C when the lamp is in operation, please do not touch it with bare hands.

•Avoid conductive objects such as flammable liquid, water or metal to enter the lamp to avoid electric shock or fire. If some objects enter the lamp, please cut off the power immediately

•Avoid operating in dirty and dusty environments. and clean , maintain the lamps regularly.

•It is forbidden to touch the wire when the lamp is running to prevent electric shock.

•Avoid entanglement of the power cord and other wires.

•The distance between the lamp and the illuminated surface should be greater than 5 meters.

•Disconnect the power before replacing the fuse or bulb.

•Use the same model when replacing fuses or bulbs.

•There is a serious operation failure, please stop using it immediately.

•Please do not turn on the lamp frequently, and turn on the lamp at least every 30 seconds.

•Please replace the lamp housing, lens or ultraviolet filter in time when there is obvious damage.

• There are no available parts inside the lamp, please do not open the lamp shell without permission.

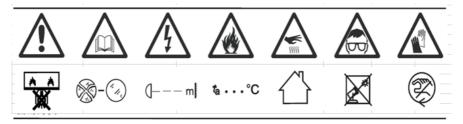
•Do not operate the machine by yourself. Operation by non-professionals will cause damage to the device or malfunction of the device. For repairs, please contact the nearest authorized service center.

•Please cut off the power when the lamp is not used for a long time or maintenance.

•When you need to transport again, please use the original packaging material.

• To avoid fire or electric shock, do not expose the lamp to rain or wet areas.

•Do not look directly when the lamp is running .



2. TECHNICAL SPECIFICATION

2.1 LIGHT SOURCE

LED type:High Power 550W White LED CCT: 8000K / 6000K LED life span: 20,000hrs CRI: Standard≥70 / Hi CRI≥90

2.2 XY MOVEMENT

Horizontal scan:540° (16 bit Precision scan) Vertical scan:270° (16 bit Precision scan)

Extremely accurate positioning;

Moving head operated via either 8 or 16 bit resolution High-resolution stepper motors operated via microprocessors ensure extreme accuracy and smooth movements;

PAN and TILT automatic re-positioning (FEEDBACK)

2.3 COLOR

Smooth and Sophisticated color mix system providing CYM color mixing; Variable CTO color temperature correction(2700K-7000K/5600K) Fixed colour wheel with six saturated colour filters+ open, Rainbow effect with bi-directional and variable speeds.

2.4 GOBOS

1 Rotating gobo wheel: 7 interchangeable gobos +Open.

1 Static gobo wheel: 7 gobos + Open.

1 effect wheel: Graphic animation effect wheel with continuous rotation in both directions; stunning dynamic effects such as moving flames, gurgling water, etc.

2.5 SPECIFICATION

Channel mode: 29/34/37 Standard DMX512 Channel; OPTICS:

11:1 zoom high resolution optic system; Beam aperture: 4.5° to 53.°; Fast motorized linear zoom & focus;

Tempered anti-reflective coated lenses;

FRAMING SYSTEM:

4 individually positionable shutter blades;

Rotation of the framing system module: +/- 45°;

Prism: 4-facet rotating and indexable prism, Bi-directional rotating at variable speeds;

Iris: 5%~100% open, smooth adjustment;

2 frost filters: soft edge & hard edge, 0~100% linear frost effects;

Strobe: The frequency can reach up to 25Hz, random strobe and pulse strobe effect ;

Dimming: Linear 0-100%, 4 dimming curve;

2.6 DISPLAY

Touch the color LCD display: with rechargeable battery, you can enter the menu to set the address code and make other settings without powering on; when power is off, press the "BAT SW" key on the display panel for 3 seconds to enter setting DMX address and Other menu functions, automatically cut off in 5 seconds when not in operation. Automatically charge the battery when power on.

2.7 SOFTWARE

Can change DMX address code, fixture reset, voice control mode conversion and other functions from the console; display the lamp usage time, convenient for customers to understand the lamp usage in time.

2.8 OTHER FUNCTIONS

Input signal isolation protection function to ensure stable signal transmission without interference.

2.8.1 RDM FUNCTION

DMX Signal input/output: XLR3/5pin RJ45 and USB connector socket3

2.8.2 Wireless function (optional)

2.9 COOLING System

Advanced cooling system based on heat-pipe technology; Fan models: Silent mode, Auto mode, Strong mode; Safety protection against over-heating;

2.10 POWER SUPPLY

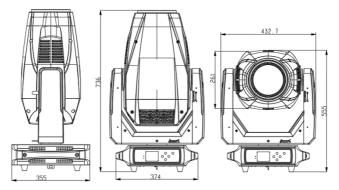
AC100~240v,50/60Hz

Power 820 W max

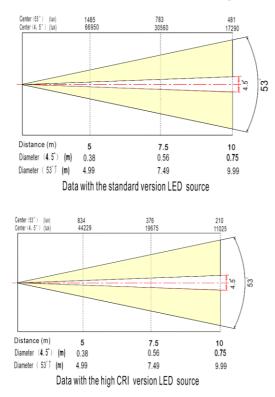
2.11 SIZE&WEIGHT

Body Size:374*355 *736 mm

Net Weight:32.5kg

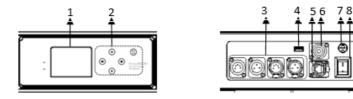


2.12 Photometric Diagram



3. HOW TO SET FIXTURE

3.1 CONTROL PANEL



- 1. LCD display: Function menu;
- 2. Operate Button:

Γ	MENU: choose the Funtion						
		ENTER: confirm the Function					
		UP: back to previous Options					
DOWN: next Options							
	(SW)	Battery button					

- 3.DMX In/Out
- 4. USB connector
- 5. RJ45
- 6. Connect main power
- 7. Fuse(T 15A)
- 8. Power switch: power On/Off

3.2 MAIN FUNCTION

Press **MENU** with 3s (3 seconds) into Menu choose mode to choose what you want, press **ENTER** to confirm the function, the LCD display will flash.Then press **UP/DOWN** to choose the function, press **ENTER** to confirm it. Press **MENU** for going back to previous menu, or wait for 1 minute for going back to main menu.

Main Functions:

DMX	DMX Address	1-512
	DMX Channel Mode	Mode1(29)
		Mode2(34)
		Mode3(37)
	DMX State	Blackout
		Hold
	View DMX Value	
SET.	Pan Inverse	Yes/No
	Tilt Inverse	Yes/No

	P/T Feedback	Yes/No
	Dimmer Curve	Liner
		Square law
		Inv SQ law
		S Curve
	Dimmer Speed	Fast
		Smooth
	Set Dimmer	1000
	Frequency	1200(default)
		1500
		2500
		4000
		5000
		10000
		15000
		20000
		25000
	Focus Compensate	Disable
		Near
		Medium
		Far
	Fan Mode	Silent Mode
		Auto Mode
		Strength Mode
DISP	Display Inverse	Yes/No
	Backlight Switch	On/Off

	Backlight Intensity	1-10
	Temperature Unit	°C/°F
	Language	English/Chinese
TEST	Auto Test	-
	Manual Test	-
INFO.	Fixture use time	-
	Temperature	-
	Fixture Name	
	Firmware Version	-
RSET	Pan/Tilt	Yes/No
	Effect	Yes/No
	All Motor	Yes/No
SPEC.	Factory Setting	Yes/No

3.2.1 DMX Function

Press MENU, choose DMX function, press ENTER to confirm it. press UP/DOWN to choose: DMX add, Channel Mode, DMX state and Channel Value.

3.2.1.1 DMX Address

Press **DMX Address**, press **ENTER** to confirm it. **DMX** add shows on the LCD. Press **UP/DOWN** to choose 001~512. Press **ENTER** to reserve. Press **MENU** for going back to previous menu, or wait for 1 minutes for going back to main menu.

3.2.1.2 Channel Mode

Press Channel Mode, press ENTER to confirm it. Channel Mode shows on the LCD. Press UP/DOWN to choose: 29CH,34CH,37CH; Press ENTER to reserve. Press MENU for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.1.3 DMX State

Press **DMX State**, press **ENTER** to confirm it. **DMX State Blackout** /**Hold** show on the LCD. Press **MENU** for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.1.4 View DMX Value

Press View DMX Value, press ENTER to confirm it. DMX Value shows on the LCD. Press UP/DOWN to choose View DMX Value. Press ENTER to reserve. Press MENU for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.2 SET

Press **MENU** to choose **SET** Press **ENTER** to confirm it. Press **UP/DOWN** to choose: **Pan Inverse**, **Tilt Inverse**, **P/T Feedback**, **Dimmer Curve**, **Dimmer Speed**, **Fan Mode**.

3.2.2.1 Pan Inverse

Press **Pan Inverse**, press **ENTER** to confirm it. **Pan Inverse** shows on the LCD. Press UP/DOWN to choose : No(**Normal**) or Yes(**Pan Inverse**), Press **ENTER** to reserve. Press **MENU** for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.2.2 Tilt Inverse

Press **Tilt Inverse**, press **ENTER** to confirm it. **Tilt Inverse** shows on the LCD. Press **UP/DOWN** to choose: No(**Normal**) or Yes(**Tilt Inverse**), Press **ENTER** to reserve. Press **MENU** for going back to previous menu, or wait for 1 minutes for going back to main menu.

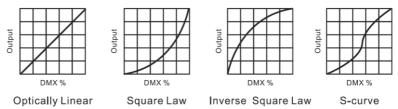
3.2.2.3 X/Y P/T Feedback

Press P/T Feedback, press ENTER to confirm it. P/T Feedback shows on the LCD. Press UP/DOWN to choose: No(P/T Forever or Yes(P/T Feedback). Press ENTER to reserve. Press MENU for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.2.4 Dimmer Curve

Press **Dimmer Curve**, press **ENTER** to confirm it. Press **UP/DOWN** to choose: **Liner**, **Square law**, **Inv SQ law** or **S Curve**. Press **ENTER** to reserve. Press **MENU** for going back to previous menu, or wait for 1 minute for going back to main menu.

Dimmer Modes



Mode1(Liner): As the DMX value increases, the light intensity tends to be linear;

Mode2(Square law): The light intensity is controlled to be finer at low values and thicker at high values;

Mode3(**Inv SQ law**): The light intensity is controlled to be thicker at low values and thinner at high values;

Mode4(S Curve): The light intensity is controlled to be finer at low and high values, and thicker at intermediate values.

3.2.2.5 Dimmer Speed

Press **Dimmer Speed**, press **ENTER** to confirm it. **Dimmer Speed** shows on the LCD. Press **UP/DOWN** to choose: **Fast** or **Smooth**. Press **ENTER** to reserve. Press **MENU** for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.2.6 Set Dimmer Frequency

Press **Set Dimmer Frequency,** press **ENTER** to confirm it. **P/T Feedback** shows on the LCD. Press UP/DOWN to choose: 1000 /1200(default)/1500/2500/4000/5000/10000/15000/20000/25000. Press **ENTER** to reserve. Press **MENU** for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.2.7 Fan Mode

Press Fan Mode, press ENTER to confirm it. Fan Mode shows on the LCD. Press UP/DOWN to choose: Silent Mode, Auto Mode, Strength Mode. Press ENTER to reserve. Press MENU for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.3 DISP

Press MENU to choose DISP, press ENTER to confirm it. Press UP/DOWN to choose: Display Inverse, Backlight Intensity,

Temperature Unit or Language.

3.2.3.1 Display Inverse

Press **Display Inverse**, press **ENTER** to confirm it. **Display Inverse** shows on the LCD. Press **UP/DOWN** to choose : **No(Normal)** or **Yes(Display Inverse)**. Press **ENTER** to reserve. Press **MENU** for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.3.2 Backlight Intensity

Press Backlight Intensity, press ENTER to confirm it. Backlight Intensity shows on the LCD. Press UP/DOWN to choose: 1(Black) to 10(Lightness). Press ENTER to reserve. Press MENU for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.3.3 Temperature Unit

Press **Temperature Unit**, press **ENTER** to confirm it. **Temperature Unit** shows on the LCD. Press **UP/DOWN** to choose: **°C** or **°F**. Press **ENTER** to reserve. Press **MENU** for going back to previous menu, or wait for 1 minute for going back to main menu.

3.2.3.4 Language

Select Language, press ENTER button to confirm. Use UP/DOWN button to select: Chinese or English, press ENTER button to save. Press **MENU** button to return to the previous menu or wait 1 minute to exit automatically.

3.2.4 Test

Enter MENU, select Test, press ENTER button to confirm, use UP/DOWN button to select: Auto test, Manual test.

3.2.4.1 Auto test

Select **Auto test**, press **ENTER** button to confirm. The program will run to test pan, tilt, color, color wheel, color wheel auto-rotation, strobe, dimming, prism wheel, prism wheel auto-rotation, frost, focus, etc. Press **MENU** button to return to the previous menu or return to the menu mode after the test.

3.2.4.2 Manual test

Select **Manual test**, press **ENTER** button to confirm. Use **UP/DOWN** button to select the channel: press **ENTER** button to confirm, then use

UP/DOWN button to adjust the value, press **ENTER** button to save. The program will run according to the channel value. Press **MENU** button to return to the previous menu or wait 1 minute to exit the menu mode automatically. (After exiting

3.2.5 Information

Enter MENU, select Information, press ENTER button to confirm, use UP/DOWN button to select: Fixture usage time, Temperature , Fixture name and CPU version.

3.2.5.1 Fixture usage time

Select **Fixture usage time**, press **ENTER** button to confirm. The screen will show the lamp running time. Press **MENU** button to exit.

3.2.5.2 Temperature

Select **Temperature**, press **ENTER** button to confirm. You can read the temperature on the screen. Press **MENU** button to exit.

3.2.5.3 CPU version

Select **CPU version**, press **ENTER** button to confirm. The firmware version of the device will appear on the screen. Press **MENU** button to exit.

3.2.6 Reset

Enter MENU, select RSET, press ENTER button to confirm, use UP/DOWN buttons to select: Pan/Tilt, Effect or All.

3.2.6.1 Pan/Tilt

Select **Pan/Tilt**, press **ENTER** button to confirm. Use **UP/DOWN** button to select: **No** or **Yes** (The light will back to the initial position of **Pan/Tilt**), press **ENTER** button to save. Press **MENU** button to exit.

3.2.6.2 Effect

Select the **Effect**, press **ENTER** button to confirm, use **UP/DOWN** buttons to select: **No** or **YES** (The effect will be back to its initial position). Press **ENTER** button to save. Press **MENU** button to exit.

3.2.6.3 All

Select AII, press ENTER button to confirm, use UP/DOWN buttons to select: No or Yes (All will back to the initial position). Press ENTER button to save. Press MENU button to exit.

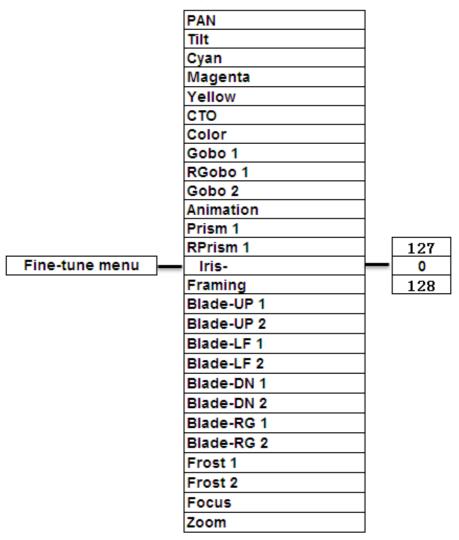
3.2.7 SPEC

Enter the menu, select the **SPEC**, press **ENTER** button to confirm, select: **Factory settings**.

3.2.7.1 Factory settings

Select **Factory settings**, press **ENTER** button to confirm, use **UP/DOWN** buttons to select **No** (keep current settings) or **Yes** (restore factory settings). Once selected, press **ENTER** button to save. Press **MENU** button to exit.

3.3 Motor offset adjustment



Press **MENU** button to enter the menu, and then press **ENTER** button for about 3 seconds to enter the **Motor Offset** to adjust each initial position. Press **ENTER** button to confirm. Use **UP/DOWN** button to select the submenu, press **ENTER** button to save and return to the previous menu automatically. Press **MENU** button to exit.

Pan

Enter **Motor offset**, select **Pan**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** button to adjust the **Pan** initial position (-128 to 127), and press **ENTER** button to save. Press **MENU** button to exit.

Titl

Enter **Motor offset**, select **Tilt**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** buttons to adjust the **Tilt** initial position (-128 to 127), and press **ENTER** button to save. Press **MENU** button to exit.

Cyan

Enter **Motor offset**, select **Cyan**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** button to adjust **Cyan** initial position (-128 to 127), and press **ENTER** button to save. Press **MENU** button to exit.

Magenta

Enter **Motor offset**, select **Magenta**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** button to adjust **Magenta** initial position (-128 to 127), and press **ENTER** button to save. Press **MENU** button to exit.

Yellow

Enter **Motor offset**, select **Yellow**, press **ENTER** button to confirm, the current position will be shown on the screen, use **UP/DOWN** button to adjust **Yellow** initial position (-128 to 127), press **ENTER** button to save. Press **MENU** button to exit.

СТО

Enter **Motor offset**, select **CTO**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** button to adjust **CTO** initial position (-128 to 127), and press **ENTER** button to save. Press **MENU** button to exit.

Color

Enter **Motor offset**, select **Color**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** button to adjust **Color** initial position (-128 to 127), and press **ENTER** button to save. Press MENU button to exit.

Gobo 1

Enter **Motor offset**, select **Gobo 1**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** buttons to adjust **Gobo 1** initial position (-128 to 127), and press **ENTER** button to save. Press **MENU** button to exit.

RGobo 1

Enter **Motor offset**, select **RGobo 1**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** button to adjust **RGobo 1** initial position (-128 to 127), and press **ENTER** button to save. Press **MENU** button to exit.

Gobo 2

Enter Motor offset, select Gobo 2, press ENTER button to confirm, the current position will be shown on the screen. Use UP/DOWN button to adjust Gobo 2 (-128 to 127), and press ENTER button to save. Press MENU button to exit.

Animation

Enter **Motor offset**, select **Animation**, press **ENTER** button to confirm, the current position will be shown on the screen. Use the **UP/DOWN** button to adjust **Animation** initial position (-128 to 127), and press **ENTER** button to save. Press **MENU** button to exit.

Prism 1

Enter **Motor offset**, select **Prism**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** button to adjust **Prism** initial position of the prism (-128 to 127), and press **ENTER** button to save. Press **MENU** button to exit.

RPrism 1

Enter **Motor offset**, select **RPrism 1**, press **ENTER** button to confirm, the current position will be shown on the screen. Use **UP/DOWN** button to adjust **RPrism 1** initial position (-128 to 127), and press the **ENTER** button to save. Press **MENU** button to exit.

Iris

Enter **Motor offset**, select **Iris**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (-128 to 127). Press **ENTER** to save, Press **MENU** to exist.

Framing

Enter **Motor offset**, select **Framing**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (-128 to 127). Press **ENTER** to save. Press **MENU** to exist. **Blade-UP1**

Enter **Motor offset**, select **Blade-UP1**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (0 - 255). Press **ENTER** to save. Press **MENU** to exist. **Blade-UP2**

Enter Motor offset, select Blade-UP2, press ENTER to confirm. The

current position will be shown on the screen. Press **UP/DOWN** to adjust the position (0 - 255). Press **ENTER** to save. Press **MENU** to exist. **Blade-LF1**

Enter **Motor offset**, select **Blade-LF1**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (0 - 255). Press **ENTER** to save. Press **MENU** to exist. **Blade-LF2**

Enter **Motor offset**, select **Blade-LF2**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (0 - 255). Press **ENTER** to save. Press **MENU** to exist. **Blade-DN1**

Enter **Motor offset**, select **Blade-DN1**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (0 - 255). Press **ENTER** to save. Press **MENU** to exist. **Blade-DN2**

Enter **Motor offset**, select **Blade-DN2**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (0 - 255). Press **ENTER** to save. Press **MENU** to exist. **Blade-RG1**

Enter **Motor offset**, select **Blade-RG1**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (0 - 255). Press **ENTER** to save. Press **MENU** to exist. **Blade-RG2**

Enter **Motor offset**, select **Blade-RG2**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the location (0 - 255). Press **ENTER** to save. Press **MENU** to exist. **Frost-1**

Enter **Motor offset**, select **Frost-1**, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (-128 to 127). Press **ENTER** to save. Press **MENU** to exist. **Frost-2**

Enter **Motor offset**, select **Frost-2**, press **ENTER** to confirm. The current will be shown on the screen. Press **UP/DOWN** to adjust the position (-128 to 127). Press **ENTER** to save. Press **MENU** to exist. **Focus**

Enter **Motor offset**, select Focus, press **ENTER** to confirm. The current position will be shown on the screen. Press **UP/DOWN** to adjust the position (-128-127). Press **ENTER** to save. Press **MENU** to exist. **Zoom**

Enter Motor offset, select Zoom, press ENTER to confirm. The

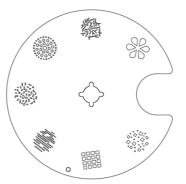
current position will be shown on the screen. Press **UP/DOWN** to adjust the position (-128 to 127). Press **ENTER** to save. Press **MENU** to exist.

4.Gobos and LED

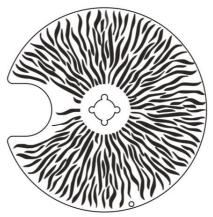
4.1 Rotating Gobo Wheel:



Static Gobo Wheel:



4.3 Animation Wheel:

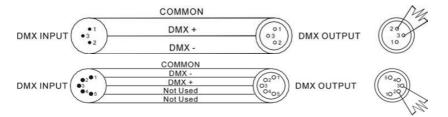


4.4 LED

- Light source: 500W LED Modular
- Color Temperature :8000K (Standard)
 /6000K(High CRI)
- Work life: 20,000HLED
- CRI:Standard≥70;High CRI ≥90
- Spot uniform:≥90%

5.DMX Setting

5.1 DMX Connection

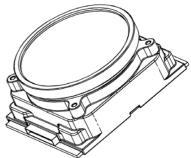


1) In order to reduce signal errors and avoid signal weakening and interference during transmission, a 1200HM 1/4W resistor can be added between the 2 and 3 cores of the DMX output terminal of the last machine.

2) Connect the lamp with XLR cable, one end is connected to the output port of the lamp, and the other end is connected to the input port of the next lamp. XLR signal lines can only be used in series, not in parallel. DMX512 signal transmission speed is very fast. Damage to the signal line, weak welding, poor contact, etc., will affect the signal transmission and cause the system to shut down

3) When power supply of a certain unit is disconnected, the connection of DMX output and input is bypassed in order to maintain the connection of DMX line.

4) Each lamp must have an address code, which can receive the information sent by the console, and the range is between 0-511



(usually 0&1 and 1 are the same).

5) The terminal of the DMX512 system needs to be equipped with a terminator to reduce signal transmission errors.

6) 3-pin XLR connectors are more common than 5-pin XLR:

7) 3-pin XLR: PIN 1: GND, PIN 2: negative signal, PIN 3: positive signal.

8) 5-pin XLR: PIN 1: GND, PIN 2: negative signal, PIN 3: positive signal, PIN4/PIN5: not used;

5.2 Address code setting

When using a general DMX controller to control the lamp, you need to set the starting address (1-512) for the lamp, so that it can receive the DMX signal. Press the menu button to enter the menu mode, select the DMX function, press the ENTER button to confirm, the current address will flash on the display, then use the UP/DOWN buttons to select the address code (1-512), press the ENTER button to save. Press the MENU button to return to the previous menu or wait one minute to automatically exit the menu mode. Please refer to the chart below to set the address codes of the first 4 fixtures

Channel Mode	Light 1 Address code	Light 2 Address code	Light 3 Address code	Light 4 Address code
30 channel	1	31	61	91
32 channel	1	33	65	97

5.3 DMX 512 Channels

DMX PROTOCOL

29ch	34ch	37ch	Value	Function
27	29	1	(0-255)	Pan
	30	2	(0-255)	Fine-tuning for Pan
28	31	3	(0-255)	Tilt
	32	4	(0-255)	Fine-tuning for Tilt
	33	5	(0-255)	Pan/Tilt speed:
				fast \rightarrow slow
29	34	6		Special function
			(0-29)	None
			(30-39)	Dimming curve square
			(40-49)	Dimming curve inverse square
			(50-59)	Dimming curve linear
			(60-69)	Dimming curve S shape
			(70-79)	Scan with shading
			(80-89)	Scanning without shading
			(90-99)	Color wheel positioning with
				shading
			(100-109)	Color wheel positioning
				without shading
			(110-119)	Gobo plate positioning with
				shading
			(120-129)	Gobo plate positioning
				without shading
			(130-139)	Focus compensation invalid
			(140-149)	Focus compensation Short
				range

			(150-159)	Focus compensation Mid-
				range
			(160-169)	Focus compensation Long
				range
			(170-179)	Dimming speed built-in
			(180-189)	Fast dimming speed
			(190-199)	Smooth dimming speed
			(200-209)	All reset
			(210-219)	Lamp head reset
			(220-229)	X/Y reset
			(230-255)	None
1	6	7		Strobe
			(0-15)	Strobe off
			(16-30)	Strobe on
			(31-135)	Strobe: slow \rightarrow fast
			(136-145)	Strobe on
			(146-175)	Strobe fast closing slow
				opening: slow \rightarrow fast
			(176-185)	Strobe on
			(186-215)	Strobe fast closing slow
				opening: slow \rightarrow fast
			(216-225)	Strobe on
			(226-245)	Random strobe: slow \rightarrow fast
			(246-255)	Strobe on
2	7	8	(0-255)	Dimming 0-100%
	8	9	(0-255)	Dimming fine-tuning

3	1	10	(0-255)	Cyan
4	2	11	(0-255)	Magenta
5	3	12	`	Yellow
	-		(0-255)	
6	4	13	(0-255)	СТО
7	5	14		Color wheel
			(0-131)	Color moves linearly
			(132-141)	Color-1
			(142-151)	Color-2
			(152-161)	Color-3
			(162-171)	Color-4
			(172-181)	Color-5
			(182-191)	Color-6
			(192-222)	Clockwise rotation: fast \rightarrow
				slow
			(223-224)	Stop
			(225-255)	Counterclockwise rotation:
				fast \rightarrow slow
8	9	15		Rotating gobo
			(0-7)	Open/white
			(8-15)	Rotating gobo-1
			(16-23)	Rotating gobo-2
			(24-31)	Rotating gobo 3
			(32-39)	Rotating gobo 4
			(40-47)	Rotating gobo 5
			(48-55)	Rotating gobo 6
			(56-63)	Rotating gobo 7

			(64-95)	Clockwise rotation: fast \rightarrow
				slow
			(96-97)	Stop
			(98-129)	Counterclockwise rotation:
				slow \rightarrow fast
			(130-147)	Rotating gobo 1 Shaking: slow
				\rightarrow fast
			(148-165)	Rotating gobo 2 Shaking: slow
				\rightarrow fast
			(166-183)	Rotating gobo 3 Shaking: slow
				\rightarrow fast
			(184-201)	Rotating gobo 4 Shaking: slow
				\rightarrow fast
			(202-219)	Rotating gobo 5 Shaking: slow
				\rightarrow fast
			(220-237)	Rotating gobo 6 Shaking: slow
				\rightarrow fast
			(238-255)	Rotating gobo 7 Shaking: slow
				\rightarrow fast
9	10	16		Rotating gobo Rotation
			(0-127)	Autorotation
			(128-190)	Clockwise rotation: fast $ ightarrow$
				slow
			(191-192)	Stop
			(193-255)	Counterclockwise rotation:
				slow \rightarrow fast
	•	•		

	11	17	(0-255)	Gobo rotation fine-tuning
10	12	18		Static gobo
			(0-7)	Open/White
			(8-15)	Static gobo-1
			(16-23)	Static gobo-2
			(24-31)	Static gobo-3
			(32-39)	Static gobo-4
			(40-47)	Static gobo-5
			(48-55)	Static gobo-6
			(56-63)	Static gobo-7
			(64-95)	Clockwise rotation: fast \rightarrow
				slow
			(96-97)	Stop
			(98-129)	Counterclockwise rotation:
				slow \rightarrow fast
			(130-147)	Static gobo-1 Shaking: slow
				\rightarrow fast
			(148-165)	Static gobo-2 Shaking: slow
				\rightarrow fast
			(166-183)	Static gobo-3 Shaking: slow
				\rightarrow fast
			(184-201)	Static gobo-4 Shaking: slow
				\rightarrow fast
			(202-219)	Static gobo-5 Shaking: slow
				\rightarrow fast
			(220-237)	Static gobo-6 Shaking: slow

				\rightarrow fast
			(000.055)	
			(238-255)	Static gobo-7 Shaking: slow
				\rightarrow fast
21	19	19	(0-255)	Iris: big \rightarrow small
11	13	20		Animation wheel
			(0-15)	None
			(0-13)	Clockwise rotation: fast \rightarrow
			(16-135)	slow
				Counterclockwise rotation:
			(136-255)	slow \rightarrow fast
22	14	21		Prism wheel
			(0-15)	None
			(16-255)	Prism
23	15	22		Prism rotation
			(0-127)	Prism Autorotation
			(128-191)	Clockwise rotation: fast $ ightarrow$
				slow
			(192-255)	Counterclockwise rotation:
				slow \rightarrow fast
		23	(0-255)	Prism rotation fine tuning
24	16	24		Frost
			(0-99)	Frost 1 Linear
			(100-127)	Frost 1
			(128-227)	Frost 2 Linear
			(228-255)	Frost 2
25	17	25	(0-255)	Zoom

		26	(0-255)	Zoom fine tuning
26	18	27	(0-255)	Focus
		28	(0-255)	Focus fine tuning
12	20	29	(0-255)	Framing rotation 0°-90°
13	21	30	(0-255)	Upper Framing 1 0% -100%
14	22	31	(0-255)	Upper Framing 2 0% -100%
15	23	32	(0-255)	Left Framing 1 0% -100%
16	24	33	(0-255)	Left Framing 2 0% -100%
17	25	34	(0-255)	Below Framing 1 0% -100%
18	26	35	(0-255)	Below Framing 2 0% -100%
19	27	36	(0-255)	Right Framing 1 0% -100%
20	28	37	(0-255)	Right Framing 2 0% -100%

6. Troubleshooting

The following are some of the problems that often occur in operation. There are some suggestions for troubleshooting.

A The lamp cannot run, there is no light, and the fan is damaged. 1) Check the power connection and whether the fuse is intact. 2) Check the voltage.

Check the indicator light of the switching power supply.

B Uncontrolled station control

The indicator light must be red, if not, check the DMX signal connector and signal line to see if the connection is correct. 2) If the DMX indicator is red, but there is no response to the control channel, check whether the address code is set correctly.

If the DMX signal transmission is intermittent, check whether the XLR socket and the signal line are well connected. 4) Try to use another controller.

Check if the distance between the DMX signal line and the highvoltage line is too close, otherwise it will damage or interfere with the signal circuit.

A channel fails

The stepping motor may be damaged, and the motor lead may be

broken.

2) The drive circuit of the motor may be faulty.

7. Equipment cleaning

The inside and outside of the lens must be wiped frequently to make the lighting effect better. The frequency of wiping depends on the environment. Humid, smoky, and particularly dirty environments are likely to accumulate dust on the lens.

Use soft linen cloth and special glass wiper. \square

Dry the parts carefully.

Wipe the outside of the lens at least every 30 days.

8. Spare parts

- 1) 1pcs power cable
- 2) 1pcs signal connection line
- 3) 1pcs insurance rope
- 4) 1pcs user manual
- 5) 2pcs fast -lock omega clamp