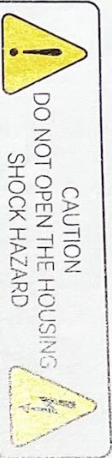# MOVING HEAD LIGHT

Please read the instructions carefully before use

Please read this manual carefully before operating this product.

1. Precautions and Installation

1.1 Statement

Thank you for choosing our company's products！When this product leaves the factory, its performance is intact and its packaging is complete. For your safe and effective use of this product, please read this instruction manual carefully and completely before using this product. This manual contains important information for installation and use. Please install and operate according to the requirements of the manual. At the same time, please keep this manual properly for use at any time. Our company is not responsible　for any damage to lamps or other performances due to personal failure to operate in accordance with the instructions during installation, use, and maintenance.

This manual is subject to technical changes without prior notice.

1.2 Maintenance

- Please disconnect the power before maintenance.
- The lamp should be kept dry and avoid working in a humid environment.
- Intermittent use will effectively prolong the life of the lamp.
- In order to obtain good ventilation and lighting effects, it is necessary to clean the fan, fan net and lens frequently.
- Do not wipe the shell of the lamp with alcohol or other organic solvents to avoid damage.

1.3 Product Notes

- This lamp is for professional use only.
- Before operation, make sure that the power supply voltage matches the power supply voltage required by the equipment.
- Do not place this product in a place where it is easy to loose or vibrate.
- During use, if the lamp is abnormal, stop using the lamp in time.
- In order to ensure the service life of the product, this product should not be placed in a place with humidity or water leakage.
- When the bulb is in use, the power supply voltage should not vary by more than ±10%. If the voltage is too high, the life of the bulb will be shortened. If the voltage is too low, the light color of the bulb will be affected.
- After the power is cut off, it takes 20 minutes to use the lamp to fully cool down before it can be powered on again.
- The rotating parts of the lamps and the pasting accessories must be checked regularly, and any looseness and shaking should be reinforced in time to prevent accidents.
- In order to ensure the normal use of this product, please read this instruction carefully.

1.4 Technical Parameters:

Voltage: AC100V-240V
Frequency: 50Hz-60Hz
Fuse: 3A
Color temperature: 8500K
Control mode: DMX512, Auto, master-slave, sound control
Exterior : high temperature resistant plastic + molded alloy material
Exterior color: black
Protection class: IP20

1.5 Signal line connection

Function introduction:

1. International standard control signal: DMX512
2. Channel number: 16CH/24CH/32CH.
3. Number of motors: 3 silent motors in total
4. LCD interface, easy to operate, beautiful interface, and the interface can be reversed by 180 degrees.
5. The horizontal rotation of the X axis is 540℃, and the vertical rotation of the Y axis is 270℃, with automatic correction positioning.
6. The X and Y axes can be adjusted and fine-tuned, and the software has a correction and positioning function, with high precision!
7. Dimming: 0-100% linear adjustment.
8. Strobe: Strobe speed (1-30 times/second), complete linear dimming and variable strobe speed.
9. Focusing: Using optical combination, the effect is far better than ordinary wash lights, and can project HD effect.
10. Overheating intelligent protection
11. Intelligent dimming control (extend the service life of the light source)

1.6 Signal line connection

The lamps are equipped with standard DMX input and output 3-pin or 5-pin XLR sockets. Please use the shielded twisted-pair signal cable specially designed for DMX 512; the signal cable is generally connected at a distance of 150 meters, and a DMX512 signal amplifier must be added for long-distance signal transmission.

Use a shielded twisted pair signal cable to connect the DMX input port of the controller to the DMX input port of the first device, and connect the DMX output port of the first device to the DMX input port of the second device, and so on. Until all the lamps are connected, then install a terminal plug on the last connected lamp output 3-core jack of each link. (Weld a 4 / 1W, 120Ω resistor between pins 2 and 3 of the 3-pin XLR plug).

IMPORTANT NOTE：The wires must not touch each other or the metal housing.
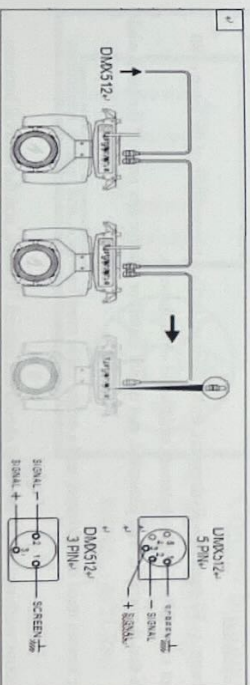

1.7 Lighting Installation

The luminaire can be placed horizontally, diagonally and upside down. Be　sure to pay attention to the installation method when hanging obliquely and upside down.

As shown in Figure 2, before positioning the luminaire, ensure the stability of the installation site. When inverting the hanging installation, you must ensure that the luminaire does not fall off the support frame. You need to use a safety rope to pass through the support frame and the luminaire. Auxiliary hanging by hand to ensure safety and prevent falling and sliding of lamps.

When the lamp is installed and debugged, pedestrians are prohibited from passing below, and the safety rope is regularly checked for wear and hook screws for looseness.

If the hanging installation is not stable, resulting in all the consequences of the fall of the lamp, our company will not bear any responsibility.
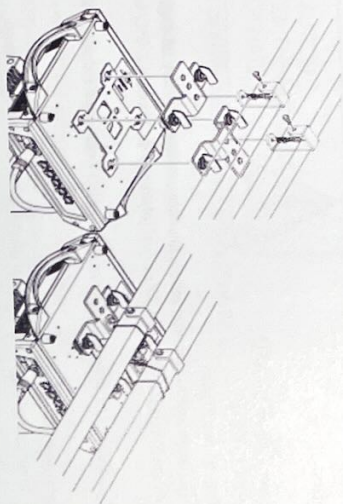
Safety warning!

In order to ensure your safe and correct use of lamps, please read the following safety tips carefully before use to avoid unnecessary failures and injuries.

1. Non-professionals, do not disassemble the lamps and accessories inside the lamps without authorization.

2. AC power supply: check whether the local power supply meets the rated voltage requirements of the product.

3. The luminaire is designed according to the type of electric shock protection. The luminaire must be connected to a fully grounded power supply system, and the ground wire of the luminaire must be connected to the ground wire of the power supply system. Do not use a power cord with damaged insulation, and do not use it The power cord is bonded to other wires.

4. When installing and positioning the lamp, keep a minimum distance of 10 meters from any point on the surface of the lamp and any flammable and explosive materials, and 2.5 meters from the irradiated object. Please do not install the lamp directly on the surface of burnable materials.

5. The ambient temperature of the lamp: (- 10 degrees + 40 degrees), the maximum surface temperature of the lamp is 80 degrees, and the lamp should be kept away from liquid substances and humid environments.

6. Before using the lamp, make sure that the lamp is well grounded, and do not install or remove any parts of the lamp while it is live.

7. When installing lamps, the fixing screws must be tightened, and a safety cable must be added, and regular inspections must be made.

8. It is recommended that the continuous working time of the lamp should not exceed 10 hours, and the interval between continuous startup of the lamp should not be less than 10 minutes. Otherwise, it will not be triggered normally due to the overheating protection of the bulb.

9. During use, if the lamp is abnormal, stop using the lamp in time. 10. When the bulb reaches the rated service life, it should be replaced in time, otherwise there will be a dangerous accident of bubble explosion.

11. The rotating parts of the lamps and the pasting accessories must be checked regularly, and if they are loose or shaken, they should be reinforced in time to prevent accidents.

12. The lamps are cooled by strong wind, which is easy to accumulate dust. It must be cleaned once a month, especially the cooling air outlet, otherwise it will be blocked by accumulated dust, resulting in poor heat dissipation and abnormal lamps.

Maintenance and Warranty:

Shutdown operation: Before shutting down the power, turn off the light source in advance. Let the heat dissipation fan quickly discharge the heat generated in the lamp during use, which can prolong the service life of the accessories in the lamp, especially the lamp source! In order to ensure that the lamp can run stably, it should be kept clean. Before disassembling the lamp for repair or maintenance work, first confirm whether the power supply is disconnected. It is very important to keep the lamp clean and clean. Please clean it regularly, not only To maintain the maximum brightness output and prolong the service life of the lamp, it is recommended to use a high-quality glass cleaner and a clean soft cloth to clean, and use a vacuum cleaner to clean the inside of the lamp at least once every six months.

After-sales service

Attention! The lamps and lanterns have passed strict quality inspection when they leave the factory, and the packaging is in good condition. Please follow the instruction manual.

Machine failures caused by human factors are not covered by the warranty.

The company provides technical advice to users.

If the product fails and needs to be repaired, please show the product warranty card and fill in the relevant content truthfully. At the same time, we also hope that customers will give us timely feedback on product problems so that we can improve our products as soon as possible.

2.   control Panel

2.1   **Button Description**
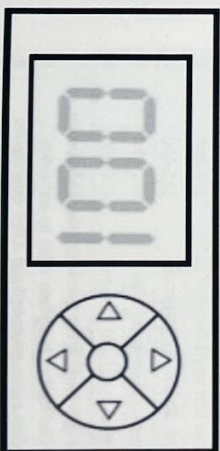
Control buttons

MENU (RETURN)

UP   DOWN

ENTER (RETURN)

2.2 menu description

2.2.1 set up

NO.	options	show	illustrate
1	Address	001~512	Press the "Enter" button to enter the editing state. Press the "Up" or "Down" button to change the address code. Press the "Enter" button again to select the ones digit for editing. Press again to exit editing state
		DMX512	
2	Mode	Fast Auto	Press "Enter" to enter the interface to choose different modes
		Slow Auto	
		Sound	
3	Channels	16/24/32CH	Standard 16 channel mode
4	Reserve	Pan	YES/NO Select whether to rotate in reverse
		Tilt	YES/NO Select whether to rotate in reverse
		Display	YES/NO Choose whether to display in reverse
5	Mic Sense	001-100	Sound-activated sensitivity setting; default 050
6	Language	Chinese	Set to Chinese interface
		English	Set to English interface
7	Reset	YES/NO	
8	Default	YES/NO	
9	Factory	YES/NO	

2.2.2 factory

Calibration	X axis	128	Press the confirm key to confirm the modification, then select the appropriate value up and down, confirm again, return and exit. After entering the sub-interface, you can adjust the reset position of the X-axis, Y-axis and other motors to compensate for errors in hardware installation. The adjustment range is -128~+127, and +0 means no adjustment.
	Y axis	128	
	Focusing	128	
	Red	220	
	Green	220	
	Blue	220	
	White	220	

16 Channels

channel	DMX value	Function
1	000-255	Horizontal 540 degree scan
2	000-255	Vertical 270 degree scan
3	000-255	XY speed from fast to slow
4	000-255	Dimming from dark to light
5	000-255	Red brightness adjustment, from dark to bright.
6	000-255	Green brightness adjustment, from dark to bright.
7	000-255	Blue brightness adjustment, from dark to bright.
8	000-255	White brightness adjustment, from dark to bright.
9	000-255	Strobe
10	000-255	Focusing
11	000-255	Functional mode
12	000-255	Functional mode speed
13	000-255	X-axis fine-tuning
14	000-255	Y-axis fine-tuning
15	000-255	No effect
16	000-249	Auto
	250-255	Reset

24 Channels:

channel	DMX value	Function
1	000-255	Horizontal 540 degree scan
2	000-255	Vertical 270 degree scan
3	000-255	XY speed from fast to slow
4	000-255	Dimming from dark to light
5	000-255	Red 1 brightness adjustment, from dark to bright.
6	000-255	Green 1 brightness adjustment, from dark to bright.
7	000-255	Blue 1 brightness adjustment, from dark to bright.
8	000-255	White 1 brightness adjustment, from dark to bright.
9	000-255	Red 2 brightness adjustment, from dark to bright.
10	000-255	Green 2 brightness adjustment, from dark to bright.
11	000-255	Blue 2 brightness adjustment, from dark to bright.
12	000-255	White 2 brightness adjustment, from dark to bright.
13	000-255	Red 3 brightness adjustment, from dark to bright.
14	000-255	Green 3 brightness adjustment, from dark to bright.
15	000-255	Blue 3 brightness adjustment, from dark to bright.
16	000-255	White 3 brightness adjustment, from dark to bright.
17	000-255	Strobe
18	000-255	Focusing
19	000-255	Functional mode
20	000-255	Functional mode speed
21	000-255	X-axis fine-tuning
22	000-255	Y-axis fine-tuning
23	000-255	No effect
24	000-249	Auto
	250-255	Reset

32 Channels:

channel	DMX value	Function	Description
1	0---255		Horizontal 540 degree scan
2	0---255		X-axis fine-tuning
3	0---255		Vertical 270 degree scan
4	0---255		Y-axis fine-tuning
5	0---255	XY speed	From fast to slow
6	0---255	Focusing	From near to far
7	0---255	Dimming	From dark to light
8	0---15	Strobe	no effect
	16---215		Normal strobe (from slow to fast)
	216---255		random strobe
9	0---50	Dimming mode	Mode 1
	51---100		Mode 2
	101---150		Mode 3
	151---200		Mode 4
	201---255		Mode 5
10	0---255	R1	From dark to light
11	0---255	G1	From dark to light
12	0---255	B1	From dark to light
13	0---255	W1	From dark to light
14	0---255	R2	From dark to light
15	0---255	G2	From dark to light
16	0---255	B2	From dark to light
17	0---255	W2	From dark to light
18	0---255	R3	From dark to light
19	0---255	G3	From dark to light
20	0---255	B3	From dark to light
21	0---255	W3	From dark to light
22	0---9	Macro color	No effect
	10---39		R100%,G UP,B0%
	40---69		R DOWM,G100%,B0%
	70---99		R0%,G100%,B UP
	100---129		R0%,G DOWM,B100%
	130---159		R UP,G0%,B100%
	160---189		R100%,G0%,B DOWM
	190---219		R100%,G UP,B UP
	220---249		R DOWM,G DOWM,B100%
	250---255		R 100%,G 100%,B100%,W100%
23	0---9	LED effect	No effect
	10---169		Static effect (10 numbers, one type)
	170---255		Dynamic effect (9 numbers, one type)
24	0---255	LED effect speed	From fast to slow
25	0---9	Graphic effects	Static graphics 1
	10---19		Static graphics 2
	20---29		static graphics 3
	30---39		Static graphics 4
	40---49		Static Graphics 5
	50---59		Static Graphics 6
	60---69		Static graphics 7
	70---79		Motion Graphics 1
	80---89		Motion Graphics 2
	90---99		Motion Graphics 3
	100---109		Motion Graphics 4
	110---119		Motion Graphics 5
	120---255		Motion Graphics 6
26	0---255	Graphics conversion speed	No effect
27	0---15	Background strobe	No effect
	16---215		Normal strobe (from slow to fast)
	216---255		Random strobe
28	0---255	R1	From dark to light
29	0---255	G1	From dark to light
30	0---255	B1	From dark to light
31	0---255	W1	From dark to light
32	0---49	Reset	No effect
	50---99		Auto 1
	100---149		Auto 2
	150---199		Sound
	251---255		Reset