MINI 120W SPOT LIGHT

USER MANUAL

1. Unpacking

Thank you for choosing to use our LED 120W spot light.. For correct and safe use of this product, please read the instructions carefully before installing and using this product. This manual contains important installation and application information, please strictly follow the instructions when installing and operating the product. At the same time, please take good care of this manual.

Our 180W Beam light uses a new beautiful high temperature resistant metal body. This product strictly follows the CE standard for design and production, in line with the international standard DMX512 signal protocol, can be used alone control, can also be used online, with fast rotation, low noise, powerful features, suitable for small and medium-sized concerts, theaters, studios, nightclubs and bars and other places.

Remove the package carefully. After the package is removed, check whether the product is damaged during transportation, and check whether the following contents are complete.

Moving Head---------One	Signal Cable----One
Power Cable----One	User Manual----One

This product is in good condition before leaving the factory. In order to maintain the good condition of this product and ensure safe operation, users should follow the safety precautions and warnings of this manual.

Important: Damage caused by not following this manual is not covered by the warranty. The supplier shall not be responsible for any product problems arising therefrom.

If the product has been exposed to extremely unstable temperatures (such as after shipping), do not immediately connect the product to the power supply, as water droplets due to temperature changes may damage the product. Please wait until the product returns to normal temperature before use.

This product can be used in the voltage range of 90V-240V and is intended for indoor use. Please ensure that the voltage used is not higher than the product can withstand the range!! The power plug must be plugged into a protected Class I outlet. Green or teal conductors must be grounded.

2.DMX512 signal connection

The light uses DMX512 signal control mode, and the light control signal is in parallel relationship. When connecting multiple light signals, it is best to use double-core shielded cable. When connecting, each light is connected through the DMX signal jack (Canon)INPUT(input) and OUTPUT(output) on the light. The 3-core XLR plug terminals of the signal line connecting the light must correspond to each other. When connecting the light signal, it is recommended to use the DMX signal terminal. To avoid the destruction of the control signal due to electrical noise, the DMX signal terminator is a 120 ohm 1W resistor connected between pin 2 and pin 3 of an XLR plug and connected to the OUTPUT jack of the last light.

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving heads be connected together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator
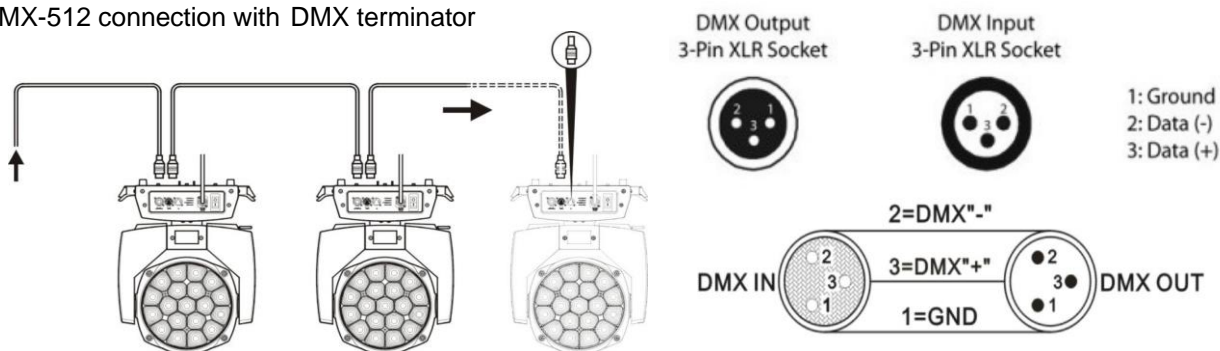
For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.
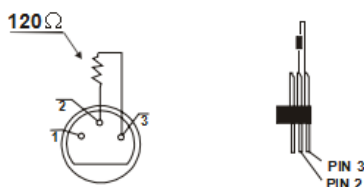
3.Luminaire starting address code calculation method:

The starting address code of the current light is equal to (the starting address code of the previous light)+(the number of channels of the light)

1: The starting address code of the first light is A001.

2: The basic channel number of the controller should be greater than or equal to the total number of channels used by the light.

3: Note: When using any controller, each light should have its own starting address code, if the first lamp's starting address code is set A001, the light channel number is 16CH; Then the starting address code of the second light is set to A017; The starting address code of the third light is set to A033; And so on,(this setting also needs to be determined according to different consoles)

4.Lighting installation instructions:

The lamp can be placed horizontally, slant hanging and upside down, slant hanging and upside down must pay attention to the installation method. Lamps fixed installation: before positioning the lamps, to ensure the stability of the installation site, in the reverse hanging installation, must ensure that the lamps do not fall down on the support frame, to use the safety rope through the support frame and lamp handle, auxiliary hanging; In order to ensure safety, to prevent the fall and slide of the lamp, the lamp is installed and adjusted, no pedestrians are allowed to pass under the lamp, regularly check whether the safety rope is worn, whether the hook screw is loose, if the hanging installation is not stable, resulting in the fall of the lamp, the manufacturer does not assume any responsibility.

5.Technical Specifications

- ➢ Voltage : AC 100V-240V/50-60HZ
- ➢ Power :120W
- ➢ Lamp:one: OSRAM 120W + 24pcs 0.2W 5050RGB color strip light
- ➢ Pan:540° Tilt：180°
- ➢ Control mode：DMX512,Auto, Master/Slave
- ➢ DMX channel：23 Channel
- ➢ Color wheel:13color+white,it has a water rolling half-color effect
- ➢ Gobo wheel:13 gobo+ white,it has water rolling and shaking effect.
- ➢ Prism:2 prism,with arbitrary Angle positioning and positive and negative rotation effect.
- ➢ Strobe:A variety of stroboscopic functions, gradually open and close the light smooth, no shake
- ➢ Dimming:0 to 100% smooth dimming
- ➢ IP: IP20
- ➢ G.W: 9Kg
- ➢ Packing size:CM

6.DMX table

22 channel

CH	Function	DMX value	Description
1	Pan	0 - 255	0-540°
2	Pan fine	0 - 255	Pan 16bit
3	Tilt	0 - 255	0-270°
4	Tilt fine	0 - 255	Tilt 16bit
5	Speed of Pan and Tilt	0 - 255	From fast to slow
6	Dimmer	0 - 255	0% - 100% linear dimming
7	Strobe	0 - 3	Dimming
		4 - 55	Strobe
		56 - 66	Dimming
		67 - 118	Fast light ,slow stop
		119 - 129	dimming
		130 - 181	Fast light ,slow stop
		182 - 192	dimming
		193 - 244	Lightning strobe
		245 - 255	dimming
8	Color wheel	0 - 9	white
		10 - 19	Color 1
		20 - 29	Color 2

		30 - 39	Color 3
		40 - 49	Color 4
		50 - 59	Color 5
		60 - 69	Color 6
		70 - 79	Color 7
		80 - 165	Rotating counterclockwise from fast to slow
		166 - 169	White
		170 - 255	Rotating clockwise from slow to fast
9	Half color	0 - 255	
10	Focusing	0 - 255	0% - 100% linear focusing
11	Gobo wheel	0 - 9	Gobo round hole
		10 - 19	Gobo 1
		20 - 29	Gobo 2
		30 - 39	Gobo 3
		40 - 49	Gobo 4
		50 - 59	Gobo 5
		60 - 69	Gobo 6
		70 - 79	Gobo 1 shake
		80 - 89	Gobo 2 shake
		90 - 99	Gobo 3 shake
		100 - 109	Gobo 4 shake
		110 - 119	Gobo 5 shake
		120 - 129	Gobo 6 shake
		130 - 190	Rotating counterclockwise from fast to slow
		191 - 194	Gobo round hole
		195 - 255	Rotating clockwise from slow to fast
12	Rotating Gobo	0 - 127	Linear ratotating
		128 - 189	Rotating counterclockwise from fast to slow
		190 - 193	Stop
		194 - 255	Rotating clockwise from slow to fast
13	Static Gobo	0 - 9	Round hole
		10 - 19	Gobo 1
		20 - 29	Gobo 2
		30 - 39	Gobo 3
		40 - 49	Gobo 4
		50 - 59	Gobo 5
		60 - 69	Gobo 6
		70 - 79	Gobo 7
		80 - 89	Round hole shake
		90 - 99	Gobo 1 shake
		100 - 109	Gobo 2 shake
		110 - 119	Gobo 3 shake
		120 - 129	Gobo 4 shake
		130 - 139	Gobo 5 shake
		140 - 149	Gobo 6 shake
		150 - 159	Gobo 7 shake
		160 - 205	Rotating counterclockwise from fast to slow
		206 - 209	Round hole
		210 - 255	Rotating clockwise from slow to fast
14	Prism	0 - 7	No function
		8 - 127	Prism work
		128 - 255	Prism rotating from slow to fast
15	Reset	0 - 25	No function

		26 - 76	Small mator reset
		77 - 127	Pan and Tilt motor reset
		128 - 255	All motors reset
16	Strip light dimming	0 - 255	Strip light dimming
17	Strip light strobe	0 - 255	Strip light strobe
18	R	0 - 255	Red color
19	G	0 - 255	Green color
20	B	0 - 255	Blue color
21	Effet	0 - 255	Effect
22	Speed of effect	0 - 255	Speed of effect

7.Display operation function
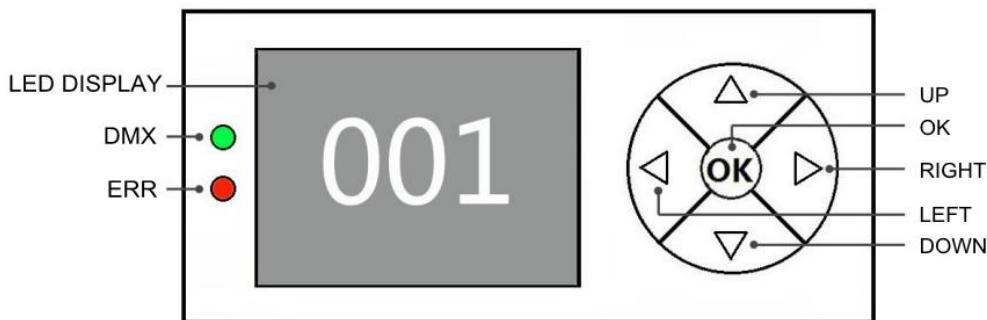
LEFT / LIGHT : through the top-level menu or returns to the upper-level menu
OK: Goes to the next menu or confirms and saves the selected function
UP: The menu goes up to switch the selected value, or increases the value
DOWN: The menu goes down to switch the selected value, or the value decreases

8.Menu table

Setting		Function
Addr	001 - 512	DMX address code setting
CH	16CH	DMX channel setting
Running mode	DMX512/Auto/Sounds/manual	Mode setting
Auto address	On/Off	Automatically calculate the address code, for example, now the address code is 1, the channel mode is 16CH, after opening the address code automatic, press the set address code, it will automatically to plus 16, then the address code becomes 17
Signal holding	On/Off	When turned on, no signal will maintain the original action
Pan & Tilt exchange	On/Off	Pan and Tilt exchange
Pan reverse	On/Off	Pan reverse
Tilt reverse	On/Off	Tilt reverse
Encoder error correction	On/Off	Encoder error correction
Hall error correction	On/Off	Hall error correction
Restore Settings	Yes/No	Restore factory Settings (but not fine tuning data)〉

Manual			Function
1	Pan	0-255	
2	Pan fine	0-255	
3	Tilt	0-255	
4	Tilt fine	0-255	
5	Speed of Pan and Tilt	0-255	
6	Dimmer	0-255	
7	Strobe	0-255	

8	Color wheel	0-255	
9	Half color	0-255	
10	Focusing	0-255	
11	Gobo wheel	0-255	
12	Rotating Gobo	0-255	
13	Static Gobo	0-255	
14	Prism	0-255	
15	Reset	0-255	
16	Strip light dimming	0-255	
17	Strip light strobe	0-255	
18	R	0-255	
19	G	0-255	
20	B	0-255	
21	Effet	0-255	
22	Speed of effect	0-255	

Calibrate	Function
Please enter a 4-digit password to use this feature	

Display		Function
Screensaver time	15/30/60seconds/Off	When the time up, return to the previous interface
Backlight time	15/30/60seconds/Off	When the time up,screen turn off
Screen reverse	On/Off	Screen forward and reverse control
lauguage	Chinese /English	Choose chinese or english

Reset		Function
All reset	Yes/No	All motors reset
Pan & Tilt reset	Yes/No	Pan and tilt motor reset
Head reset	Yes/No	Head small motor reset

Lamp setting		Function
Power on,lamp light up	Yes/No	The lamp will light up automatically after power-on reset
Manualturn on the lamp	Yes/No	manual to turn on the lamp
Half power	Yes/No	Whether to turn on the half-power mode

DMX data monitoring	Function
Monitor DMX512 data values for each channel	

Reset information	Function
If the system is reset properly, the system is normal.If a reset error occurs, will display the a reset error message	

Sensor information		Function
X encoder	*****	Current encoder count value
Y encoder	*****	Current encoder count value
X encoder status	00/11	Encoder A and B signal line status
Y encoder status	00/11	Encoder A and B signal line status
X hall	0/1	Hall status,Hall is 1 at the magnet position, otherwise it is 0
Y hall	0/1	Hall status,Hall is 1 at the magnet position, otherwise it is 0
Color wheel hall	0/1	Hall status,Hall is 1 at the magnet position, otherwise it is 0
Gobo wheel hall	0/1	Hall status,Hall is 1 at the magnet position, otherwise it is 0
Focusing hall	0/1	Hall status,Hall is 1 at the magnet position, otherwise it is 0

Usage record	Function
Use times, use time, brightening time, etc	

System version	Function
System hardware version and software version number	

9.Instructions:

1. When restoring factory Settings, only the value marked with underline are restored to the menu. Other value are not automatically restored or cleared.
2. [Send local parameters] menu, you can send the value Settings with underline items in the machine to another light or more lights through the DMX data line to avoid repeated setting work. A reset occurs when the receiving luminaire receives the correct parameters.

10.Troubleshooting

Breakdown	Solution
The light is not powered on. It's completely unresponsive	➢ Check whether the fuse is damaged ➢ Check whether the AC voltage is normal ➢ The switching power supply inside the lamp body may be damaged ➢ Internal control panel of lamp body may be damaged
The light uncontrolled	➢ Check whether the DMX signal is normal. if normal, the DMX signal indicator light on the display board will blink ➢ Check whether the address code is set correctly ➢ Check whether the channel mode is set correctly ➢ Check whether the DMX signal line is too long or the number of connect lights is too large
The XY axis is abnormal	➢ The optocoupler sensor may be damaged or improperly installed, so that the original correct position is also corrected, set to [No] in the menu [XY error correction enabled] option. or adjust the optocoupler sensor board to the appropriate position, or replace the board