

100w led gobo spot moving head light



USER MANUAL

Thank you very much for choosing our product. For safety purpose, please read this manual carefully before your operation. This manual included installation and using information. Please install and operate it according to this manual.

Part 1 PRDUCT

1.1 Product introduction

This product is designed for indoor use. Suitable applications include wash or effect lighting for architectural, stage or nightclub applications. This product can also be installed for use in signage and advertising using the dynamic functions available with DMX512 control. Direct input of DMX512 signal allows the units to be controlled from any DMX512 controller. This product can be operated as a single unit or in multiple units for large applications.

1.2 Technical Specifications

Voltage: AC100-240V, 50/60Hz

IP rating: IP20

Power:120W

Light Source: 100w ultra bright white led

Lifespan: around 100,000 hours

Control: DMX 512 (14CH)

Control Mode: DMX512, Auto run, Master Slave, Sound activated

Dimmer: 0-100%

Strobe: 0-20Hz

Beam angle:15°

Net Weight: 5.75Kg

Size: 25x20x35cm

1.3 Safety Warning

IMPORTANT:

<p>ALWAYS READ THE USER MANUAL BEFORE OPERATION. PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE PRODUCT IS THE SAME AS THE MAINS POWER SUPPLY IN YOUR AREA.</p>
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- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting and maintenance.

- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

ATTENTION:

- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

PART 2 INSTALLATION

2.1 Mounting:

2.1-1 Hanging

The product can be mounted in a hanging position using the supporting bracket. The bracket should be secured to the mounting truss or structure using a standard mounting clamp. Please note that when hanging the unit a safety cable should also be used

2.1-2 Upright

The product can be mounted in an upright or sitting position using the supporting brackets.

NOTE:

The product can be mounted at any angle and in any position. It is possible to further adjust the angle of the product using the two adjustment knobs located on the side of the fixture.

Part 3 Operation

3.1 Menu instruction Setting

Run mode	DMX	Slave : receiving DMX signals from the console or Master
	Auto	
	Random	
	Sound	
DMX Address	001-255	Press the "OK" key to enter the editing state. At this time, the hundreds digit is selected, press "up" and "down" keys to change the address code. Press the "OK" key again to select the ten digits for editing. Press the "OK" key again to select the ones digit to edit. Press again to exit the editing state
Channel Mode	Std.14C H	
Top LED temp		Led temperature
Sound regulator		Sound sensitivity adjustment
Invert Pan	OFF/ON	
Invert Tilt	OFF/ON	
Pan-Tilt Swap	OFF	
	ON	Exchange the channels of pan/tilt (including fine adjustment)
Pan-Tilt Encoder	ON	Use encoder (sensor) to judge out-of-step and automatically correct position
	OFF	Correct position without using encoder (sensor)
RDM	ON / OFF	
No DMX Signal	Keep	Keep memory before dmx disconnected

	Clear	Motor reset and stop running
Display		
Load default		

Menu

Menu	Dimmer	0-255
	Shutter/ Strobe	0-255
	Pan	0-255
	Tilt	0-255
	Pan-Tilt speed	0-255
	Color	0-255
	Gobo	0-255
	Gobo1	0-255
	Gobo1 RT	0-255
	Prism	0-255
	Focus	0-255
	Pan Fine	0-255
	Tilt Fine	0-255
	Reset	

System

System	Lamp Temp
	DMX Monitor
	System Errors
	Dis
	N
	DATE

3.2 DMX Channel

14-Channel Mode

Channel	Function	Description
CH 1	Dimmer	From Dark to bright
CH 2	Stop/Strobe	
CH 3	Pan	

CH 4	Tilt	
CH 5	Pan & Tilt speed	Slow to fast
CH 6	Colour	
CH 7	Gobo (fixed)	
CH 8	Gobo1	
CH 9	Gobo1 RT	
CH 10	Prism	
CH 11	Focus	
CH 12	Pan fine	
CH 13	Tilt fine	
CH 14	Reset	0-254 : No function 255 : Complete reset (Reset is activated passing the unused range and staying 5 seconds

➤ **Colour**

BIT	EFFECT
255	FAST ROTATION
.....
80	SLOW ROTATION
75-79	Light blue+ WHITE
70	Light green+ Light blue
65	Rose + light green
60	Yellow+ Rose
55	Blue + Yellow
50	Green+ Blue
45	RED+ Green
40	WHITE+ RED
35-39	Light blue
30	Light green

25	Rose
20	Yellow
15	Blue
10	Green
5	RED
0	WHITE

➤ **STOP/STROBE**

BIT	EFFECT	
252-255	UNUSED	Control by Dimmer channel
251	FAST STROBE	
.....	
4	SLOW STROBE	
0-3	UNUSED	Control by Dimmer channel

➤ **DIMMER**

BIT	EFFECT
255	100%
.....
0	0%

➤ **GOBO1**

BIT	EFFECT
226-230	GOBO6 SHAKE, SLOW to FAST
.....
226-230	GOBO1 SHAKE, SLOW to FAST

225	FAST ROTATION
.....
135	SLOW ROTATION
130-134	STOP
129	SLOW ROTATION
.....
70	FAST ROTATION
60-69	GOBO 6
50	GOBO 5
40	GOBO 4
30	GOBO 3
20	GOBO 2
10	GOBO 1
0	WHITE

➤ **GOBO1 ROTATION**

BIT	EFFECT
255	FAST ROTATION
.....
193	SLOW ROTATION
191-192	STOP
190	SLOW ROTATION
.....
128	FAST ROTATION
127	SLOW ROTATION
.....
64	FAST ROTATION
0-63	POSITION

➤ GOBO

BIT	EFFECT
250-255	GOBO7 SHAKE, SLOW to FAST
.....
221-225	GOBO1 SHAKE, SLOW to FAST
220	FAST ROTATION
.....
135	SLOW ROTATION
130-134	STOP
129	SLOW ROTATION
.....
80	FAST ROTATION
70-79	GOBO 7
60	GOBO 6
50	GOBO 5
40	GOBO 4
30	GOBO 3
20	GOBO 2
10	GOBO 1
0	WHITE

➤ PRISM

BIT	EFFECT
255	PRISM FAST ROTATION
.....
15	PRISM SLOW ROTATION
10-14	PRISM INSERTED
0-9	PRISM EXCLUDED

➤ **FOCUS**

BIT	EFFECT
255	100%
.....
0	0%

3.3 Special construction for DMX connection

- ☆ At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.
- ☆ If the controller is 5-pin output, it's necessary to use an adaptor to transfer signal from 5-pin output to 3-pin XLR-plug or you can connect cables as following:

3-PIN TO 5-PIN CONVERSION CHART

Conductor	3 Pin Female (Output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Not used		Pin 4
Not used		Pin 5

3.4 Master/Slave Operation.

The product can be linked together to work in Master/Slave mode without any console. The 1st machine will be set as Master and others will work as Slave unit at same effect.

Part 4, Troubleshooting

Troubleshooting list for some common electrical problems may happen during use:

Phenomenon	Solution
* The fixture does not work * No light out * Fan not work	*Check main power fuse & power cable connection *Measure main voltage on the main connector
* No display	*Check connection of display PCB * Replace a new display

<p>* No responding to DMX controller</p>	<p>*Check working mode setting on display is DMX mode or not *Check whether the unit be set as SLAVE *Check DMX address settings *Check DMX cable and it's connection *Try to use another DMX console</p>
<p>* Signal error while use DMX</p>	<p>*Check whether DMX cables be connected well or not * Check whether the DMX cable has to be terminated with a terminator to reduce signal errors. If not, please Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture</p>

Part 5. Maintenance

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

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days.
- Clean the internal optics at least every 30/60 days – Up to vary products.

Please ask professional technical to clean waterproof products and make sure the fixture will be reassembled well for waterproof.