

Quick Start Guide

# CRISTAL SPOT

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MACROLITE

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# 1. IMPORTANT SAFETY



## Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



## Caution

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

## 1. Open-package Inspection

When you receive the product, please check whether the product is damaged during transportation, and verify that the master case includes the following parts:

Moving Head light: 1 pc  
Signal cable: 1 pc  
User's manual: 1 pc

For reasons of safety and approval (CE), any personal reconstruction and/or modification of this product is prohibited. Please note that damage caused by modifications performed manually to this device is not covered by the warranty.

This product leaves our factory in perfect condition. Please follow all notes in these operating instructions to maintain this condition and ensure the safe operation of the product.

Any damage caused as a result of non-compliance with these operating instructions voids the warranty. The manufacturer does not accept liability for

damage to property or personal injury resulting from improper handling or failure to observe these instructions.

Store these operating instructions in a safe place for later reference, and pass them to any new holder when selling, lending, or transferring this device to another party.

## 2. Instruction

This product is a lighting effect that creates special light effects with one lamp. To generate these effects, the product must be connected to mains and a DMX-512 compatible controller.

This product is designed for 110–220V, 50/60Hz A/C operation and exclusively for indoor use.

If used for any purpose other than those described in these operating instructions, the device may suffer damage and the warranty becomes void. Any other use involves risks such as short circuits, electric shock, etc.

## 3. Safety and Maintenance:

- Indoor use only
- Make sure the equipment load-bearing structures can withstand more than 10 times the weight of the fixture when installed above ground.
- Disconnect from power supply before replacing lamp, fuse, or other accessories.
- Operate only under electrical standards with leakage protection device A/C.
- Allow the unit to cool down for 15 minutes before replacing lamps.
- Do not use accessories or parts from other companies.
- Contact your specialized dealer for any technical problems.



Please read this manual carefully before operating this product.

## 2. OVERVIEW

This 150W hybrid beam wash light combines a high-performance 120W COB LED with a 24-piece SMD5050 RGB ring, delivering both a solid central beam and dynamic surrounding color effects. Its versatile optical system features a 6-color + white wheel, 6 rotating gobos with bi-directional/jitter effects, and a 3-facet rotating prism for endless creative possibilities. With 540° pan and 270° tilt range supported by 16-bit precision control, it ensures exceptionally smooth and accurate movement. DMX512 (13/15 channels) with RDM support, along with Master/Slave, Auto, and Sound-activated modes, provides flexible control options. The compact design (20\*16\*34cm) and lightweight body (4.5kg) make it ideal for both mobile applications and permanent installations.

### Contents of the carton

- 1 × Moving Light
- 1 × Mains Lead
- 1 × User Manual
- 1 × Hanger

### Specifications:

- **Power Supply:** AC110V-240V/50-60Hz
- **Power Consumption:** 150W
- **Light Source:** 120W COB LED + 24 × SMD5050 RGB
- **Beam Angle:** 18°
- **Movement:** Pan 540°, Tilt 270° (16-bit precision)
- **Color System:** 6 colors + white
- **Gobo System:** 6 rotating gobos + white (bi-directional/jitter)
- **Prism:** 3-facet circular rotating prism
- **Control:** DMX512 (13/15CH), RDM, Master/Slave/Auto/Sound
- **Product Dimensions:** 20 × 16 × 34cm
- **Net Weight:** 4.5kg
- **Package Dimensions:** 28 × 22 × 40cm
- **Gross Weight:** 5.5kg

## 3. DISPLAY INSTRUCTION:

Access control panel functions using the four panel buttons located directly underneath the LED Display.

BUTTON	FUNCTION
<MENU>	Used to access the menu or to return to a previous menu option
<UP>	Scrolls through menu options in ascending order
<DOWN>	Scrolls through menu options in descending order
<ENTER>	Used to select and store the current menu or option within a menu

When a menu function is selected, the display will show immediately the first available option for the selected menu function; to select a menu item, press "ENTER".

## 4. DISPLAY MENU

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### LCD Menu Instruction

<b>d001</b>	<b>d001–d512</b>	512
<b>SLoU</b>	<b>SLoU</b>	Slow mode
	<b>FASt</b>	Quick mode
	<b>SrUn</b>	Voice control mode 0–99 sensitivity body adjustment
<b>PAN</b>	<b>PAN</b>	X Motor rotates forward
	<b>rPAN</b>	X Motor reversal
<b>TiL</b>	<b>TiL</b>	Y Motor rotates forward
	<b>rTiL</b>	Y Motor reversal
<b>dIS</b>	<b>dIS</b>	Display positive direction
	<b>rdIS</b>	Display reverse
<b>rEst</b>	<b>rEst</b>	Reset
<b>LoAd</b>	<b>LoAd</b>	Restore default settings
<b>C xxx</b>	<b>C xxx</b>	Temperature display

## 5. DMX CHANNELS DMX Channel Functions Table (13CH / 15CH)

13CH	15CH	Function	Value Range	Effect
1	1	Pan	0 – 255	0 – 540°
–	2	Pan Fine	0 – 255	Fine adjustment
2	3	Tilt	0 – 255	0 – 270°
–	4	Tilt Fine	0 – 255	Fine adjustment
3	5	Pan/Tilt Speed	0 – 255	Fast Slow
4	6	Dimming	0 – 255	0 – 100%
5	7	Strobe	0 – 9	Open
			10 – 199	Strobe: Slow Fast
			200 – 249	Random Strobe
			250 – 255	Open
6	8	Color Wheel	0 – 127	Color Selection
			128 – 190	Forward Flow
			191 – 192	Stop
			193 – 255	Reverse Flow
7	9	Pattern	0 – 3	White Light
			4 – 54	Pattern Selection
			55 – 191	Pattern Dither
			192 – 201	White Light
			202 – 227	Pattern Forward Rotation
			228 – 229	Stop
			230 – 255	Pattern Reverse Rotation
8	10	Prism	0 – 9	No Function
			10 – 128	Prism Cut
			129 – 255	Prism Rotation
9	11	Focus	0 – 255	0 – 100%
			0 – 9	Light Circle Off
			10 – 15	Color Macro 1
			16 – 21	Color Macro 2
			22 – 27	Color Macro 3
			28 – 33	Color Macro 4
			34 – 39	Color Macro 5
			40 – 45	Color Macro 6
			46 – 51	Color Macro 7
			52 – 57	Color Macro 8

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10	12	Aperture / Color Macro	58 – 63	Color Macro 9
			64 – 69	Color Macro 10
			70 – 75	Color Macro 11
			76 – 81	Color Macro – Auto Run Effect 1
			82 – 87	Color Macro – Auto Run Effect 2
			88 – 93	Color Macro – Auto Run Effect 3
			94 – 99	Color Macro – Auto Run Effect 4
			100 – 105	Color Macro – Auto Run Effect 5
			106 – 111	Horse Race Effect 1
			112 – 117	Horse Race Effect 2
			118 – 123	Horse Race Effect 3
			124 – 129	Horse Race Effect 4
			130 – 135	Horse Race Effect 5
			136 – 141	Horse Race Effect 6
			142 – 147	Horse Race Effect 7
			148 – 153	Horse Race Effect 8
			154 – 159	Horse Race Effect 9
			160 – 165	Horse Race Effect 10
			166 – 171	Horse Race Effect 11
			172 – 177	Horse Race Effect 12
			178 – 183	Horse Race Effect 13
			184 – 189	Horse Race Effect 14
190 – 195	Horse Race Effect 15			
196 – 201	Horse Race Effect 16			
202 – 207	Horse Race Effect 17			
208 – 213	Horse Race Effect 18			
214 – 219	Horse Race Effect 19			
220 – 255	Horse Race Effect 20			
11	13	Aperture Effect Speed	0 – 255	Light Bead Flow Speed
12	14	Macro Function	0 – 9	No Function
			10 – 209	Auto Run
			210 – 255	Sound Control
13	15	Reset	0 – 9	No Function
			10 – 19	Effect Reset
			20 – 29	XY Reset
			30 – 39	Full Fixture Reset
			40 – 255	No Function

## 6. IMPORTANT

### SETUP

Disconnect the power cord before replacing a fuse and always replace with the same type fuse.

### Fuse replacement

With a flat head screwdriver wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exactly the same type of fuse.

Insert the fuse holder back in its place and reconnect power. The fuse is located inside this compartment, remove using a flat head screwdriver.

### Fixture Linking

You'll need a serial data link to run light shows of one or more fixtures using a DMX512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode.

The combined number of channels required by all fixtures on a serial data link determines the number of fixtures that the data link can support.

**Important:** Fixtures on a serial/data link must be daisy chained in one single line.

Maximum recommended serial data link distance: 100 meters (1640 ft.)

Maximum recommended number of fixtures on a serial data link: 32 fixtures.

### Data Cabling

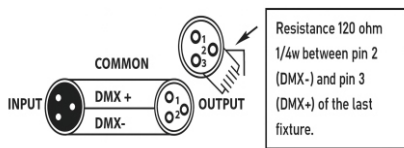
To link fixtures together you must use data cables.

If you choose to create your own cable, please use data grade cables that can carry a high-quality signal and are less prone to electromagnetic interference.

### Cable Connectors

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.

### DMX connector configuration



Termination reduces signal errors. To avoid signal transmission problems and interference, it is always advisable to connect a DMX signal terminator.

### Caution

Don't allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to check correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

### Setting up a DMX Serial Data Link

1. Connect the (male) 3-pin connector side of the DMX cable to the output (female) 3-pin connector of the controller.

## 6. IMPORTANT

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2. Connect the end of the cable coming from the controller, which will have a (female) 3-pin connector, to the input connector of the next fixture consisting of a (male) 3-pin connector.
3. Then, proceed to connect from the output as stated above to the input of the following fixture, etc.

returned, it is important that the fixture be returned in the original factory box and packing.

### **Sound Activated Mode**

The unit responds to sounds picked up by the built-in microphone to create a light show.

The sound changes the color and the position of the effect.

This mode enables the unit to act as a Master to other Slave units.

### **Built-in Program Mode**

As the unit can be mounted hung on a truss system or stand on a flat surface, pan, tilt and LED display settings can be reversed to provide correct coverage and ease of use.

### **Unpacking Instructions**

Immediately upon receiving a fixture, carefully unpack the carton and check the contents to ensure that all parts are present and have been received in good condition.

Notify the freight company immediately and retain packing material for inspection if any parts appear to be damaged from shipping or the carton itself shows signs of mishandling.

Keep the carton and all packing materials.

In the event that a fixture must be



experience the light.

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