

SPARTAN
SP-Z120W COB



RGBW 4in1 COB Moving Head



User's Manual

Thank you for using our products:

This manual contains important information about product use, installation and maintenance methods. Please read it carefully, install and operate as required, and please keep the manual properly for emergency. When this product is delivered, the performance and packaging are complete. All users shall strictly follow the warnings and operating instructions stated in this specification. Any damage caused by misuse is not within the Company's warranty. This manual is subject to technical changes without prior notice.



Product accessories

This manual	1	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Power cord (as per the order requirement)	1	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
U-shaped frame	1	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Screw fixed to lamp (for fixing the hanger)	2	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No

Product attribute

Operating	AC100~240V, 50~60Hz
Power	120W
Light source specifications	1200W RGBW COB + RGB patch lamp beads
A number	1PCS+24PCS
Light source	≥20000h
Color	Linear mixed color
Aiming	Linear dimming, 0 brightness to 100% adjustable
Strobe	1-20 Hz per second, with adjustable strobe speed
X axis	0~540°
Y axis	0~180°
Channel	14/16CH international standard channels
Display	Digital display
Control model	<input checked="" type="checkbox"/> DMX control <input checked="" type="checkbox"/> Primary / slave synchronization mode <input checked="" type="checkbox"/> Self-control <input checked="" type="checkbox"/> Sound control
Light and	black
DMX joggle	DMX Cannon
IP grade	IP20, for indoor use

Security warning information

1. Before the first use, unpack and check for damage caused by transportation. In there of damage caused by transportation, please do not use this lamp and contact us as soon as possible.
2. This product is suitable for indoor only and lamps should be kept dry to avoid use in wet, overheated or dusty conditions. Place the

lamp in contact with other liquids such as water.

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

4. When installing and positioning the lamps, please do not install the lamps directly on the surface of ordinary combustible substances. 

5. Qualified professionals can carry out the installation, operation and maintenance of lamps;

6. When the lamp fails, stop using the lamp immediately. Do not try to repair it yourself, please contact the nearest authorized technical assistance center or manufacturer and always use the same type for replacement.

7. Do not touch any wire during the operation that may cause a dangerous electric shock.

8. The maximum ambient temperature to ensure the normal and stable operation of the lamps shall not exceed 40°C, and the minimum temperature shall not exceed -20°C. The lamps shall be installed in a well-ventilated place, and ensure that the fan of the lamps rotates normally.

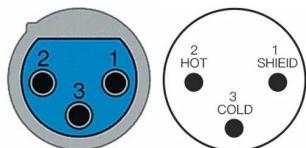
9. Do not use the damaged power cord of the insulation layer, and do not attach the power cord to other wires. When the lamp is not in use or cleaned, please take the power cord plug and unplug the power cord. Do not pull it hard or drag the power cord directly.

10. There is no part of any parts inside the lamp repaired by the user. Before operating the lamps, check that all enclosures are installed and the screws are reliably tightened. Do not use the lamp when the housing is open.

Note: Before any installation, repair and cleaning of the lamps, confirm that the power cord is cut off!

The DMX controls the connection of the signals

DMX512 Three-core carnon seat



DMX 512	
PIN	FUNCTION
1	GND
2	DATA-
3	DATA+

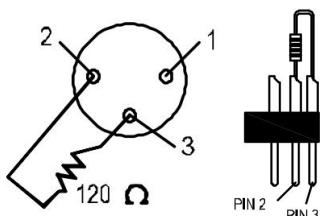
If you want to use the DMX controller to control the lamp, you must first set the DMX address code, ranging between 1 and 512, so that the lamp can receive the DMX signal.

Press the MENU button, select "R00 1" menu choice, press the ENTER button to enter. Use UP / DOWN to select the DMX512 address code, and our factory value is set to "R00 1". After the address code is set, hold down the ENTER button.

Connect from the output port of the DMX512 console to the DMX input port of the first slave, and from the DMX output port of the first slave to the DMX input port of the second slave, and so on until all the slave is connected.

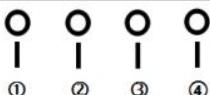
DMX-512 connection with terminal (loop connection)

During the installation process, it is recommended to use the DMX terminal (loop connection) if the signal line is laid for a long distance, or in a noisy electrical environment, such as the dance hall. This can avoid the digital control signal turbidity due to electrical noise. The DMX terminal is composed of a simple XLR connector with 2 cores and 3 cores connecting a 120Ω resistance. Please insert the terminal into the XLR output port of the last product, please refer to the following figure.



Display panel

DISPLAY



Project	No	Silk-Screen	Function
Button:	①	MENU	Enter / view the menu function
	②	↑	On the key
	③	↓	Under the key
	④	ENTER	Go to the selected function /

Display function

Menu	Options and settings	Explain
Addr	ADDR 1~ADDR 12	DMX address code select 1-512
SLnd	Auto	Auto mode
	Sound	Sound mode
	SL 1	From machine mode 1
SET	CHnd	12CH
		14CH
	Shnd	Sh 0
		Sh 1
		Sh 2
		Sh 3
	Sens	000~100
	LED	00
		0FF
	dISP	YES
		NO
	rPAn	NO
		YES
	rbiL	NO
		YES
	temp	6000

RESET

Press "ENTER" to reset the lamp

The DMX channel is used to control the content

[DMX 1] 14 Channel mode is described in detail

Channel		Numerical	Functional Description
1	X-axis	000-255	The horizontal shaft is running at 0- 540°
2	Y-axis	000-255	Vertical axis operation 0- 180°
3	XY velocity	000-255	The X / Y movement speed, the larger the value, the slower the speed
4	Led dimming	000-255	LED dimming, with 0-100% brightness
5	Strobe	000-009	Strobe off
		010-249	Strobe speeds range from slow to fast
		250-255	Strobe off
6	Red	000-255	Red linear total dimming, brightness 0-100%
7	Green	000-255	Green linear total dimming, brightness 0-100%
8	Blue	000-255	Blue linear total dimming, brightness 0-100%
9	White	000-255	White linear total dimming, brightness 0-100%
10	CTO	000-009	No work
		010-255	CTO Pure White--Warm White Temperature Value Selection
11	Auto/Sound	000-059	Other channels have effect
		060-159	Auto mode selection
		160-255	Sound mode selection
12	reset	000-020	Other channels have effect
		021-100	X axis rotation

		101-200	Y axis rotation
		201-249	XY axis rotation
		250-255	Wait for 3S and then reset
13	Lamp strip	000-255	Light strip effect selection
14	Light strip speed	000-255	The larger the value, the slower the speed (effective with CH14: 040-248)

[DMX 2] 16-channel table, receiving DMX512 international standard signal, the content is as follows:

Channel		Numeric al	Functional Description
1	X-axis	000-255	Horizontal axis rotation 0- 540°
2	X axis fine-tuning	000-255	Horizontal fine-tuning micro-movement
3	Y-axis	000-255	Vertical axis operation 0- 180°
4	Y axis fine-tuning	000-255	Vertical fine-tuning micro motion
5	XY velocity	000-255	The X / Y movement speed, the larger the value, the slower the speed
6	LED Dimming	000-255	LED dimming, with 0-100% brightness
7	Strobe	000-009	Strobe off
		010-249	Strobe speeds range from slow to fast
		250-255	Strobe off
8	Red	000-255	Red linear total dimming, brightness 0-100%
9	Green	000-255	Green linear total dimming, brightness 0-100%
10	Blue	000-255	Blue linear total dimming, brightness 0-100%
11	White	000-255	White linear total dimming, brightness 0-100%
12		000-009	No work

		010-027	Color Temperature 2000
		028-045	Color Temperature 2000
		046-063	Color Temperature 2300
		064-081	Color Temperature 2600
		082-099	Color Temperature 2900
		100-117	Color Temperature 3200
		118-135	Color Temperature 3500
		136-153	Color Temperature 3800
		154-171	Color Temperature 4100
		172-189	Color Temperature 4400
		190-207	Color Temperature 4700
		208-225	Color Temperature 5000
		226-243	Color Temperature 5300
		244-255	Color Temperature 5600
13	Auto/Sound	000-059	Other channels have effect
		060-084	Auto mode 1
		085-109	Auto mode 2
		110-134	Auto mode 3
		135-159	Auto mode 4
		160-184	Sound mode 1
		185-209	Sound mode 2
		210-234	Sound mode 3
		235-255	Sound mode 4
14	Reset	000-020	Other channels have effect
		021-100	X axis rotation
		101-200	Y axis rotation
		201-249	XY axis rotation
		250-255	Wait for 3S and then reset
15	Light strip off	000-004	Light strip off
		005-009	Red
		010-014	Green
		015-019	Blue

		020-024	Yello
		025-029	Purple
		030-034	cyan
		035-039	Full Brightness
		040-248	Selection of self-propelled effect of light strip
		249-255	Random effect
16	Speed of light strip	000-255	The higher the value, the slower the speed (it works with CH16: 040-248)

AUTO/SOUND Host operating function

1. Select AUTO as the host

Press "MENU" menu to switch menu “**Slnd**” , press "ENTER" key to enter, “**↑/↓**” to find, select “**Auto**” as the host mode, then "MENU" key menu switch menu “**Set**” , press “ENTER” to enter, “**↑/↓**” to find “**Shnd**” , select “**Sh D**” random performance; secondary opportunity automatically identify, and follow the host;

2. Select the SOUND as the host

Press "MENU" menu to switch menu “**Slnd**” , press "ENTER" key to enter, “**↑/↓**” to find, select “**Solid**” as the host mode, then "MENU" key menu switch menu “**Set**” , press “ENTER” to enter, “**↑/↓**” to find “**Shnd**” , select “**Sh D**” random performance; secondary opportunity automatically identify, and follow the host.