

Laser BAR 4W RGB

User Manual



8 HEADS RGB LIGHT ARRAY

Please read this manual carefully before using the product

CONTENT

1.Safety Guidance	3
2.Packing List	4
3.Installation Notes.....	4
4.Technical Parameter	5
5.Light Control Panel.....	5
6.Light Setting	6
6.1TFT LCD display control panel function menu setting.....	6
7.Light Control Mode	8
8. DMX512 Control.....	9
8.1DMX512 Connect	9
8.2DMX512 Chanel setting.....	10
8.3DMX512 Chanel display	11
9. Maintenance	15
10. Warning	15
11. Declaration.....	15

1. Safety Guidance

Thank you for choosing our products. For your safety, please read this manual carefully before operation. This manual includes installation and use information.

The equipment is packaged in good condition when leaving the factory. Please operate according to the user manual. The machine failure caused by man-made reasons is not covered by the warranty.

1. When using the product, please open the light and check it carefully to ensure that there is no damage caused by transportation.
2. Don't let children operate the machine.
3. Use safe ropes when fixing the equipment, and hold up the bottom when moving the light.
4. The equipment must be installed in a well-ventilated place.
5. Ensure that the ventilation holes are unobstructed to avoid overheating when the light is running.
6. Before operation, make sure that the power supply voltage matches the power supply voltage required by the equipment.
7. Please ground the conductor to prevent electric shock.
8. In case of fire, do not place combustible items next to light when they are running.
9. Please carefully check whether the power cord is damaged before turning on the light. If it is damaged, replace it immediately.
10. To avoid electric shock or fire, avoid flammable liquid, water, metal and other electrical conductors entering the light. If any foreign body enters the light, please cut off the power supply immediately.
11. Avoid operating the light in a dirty and dusty environment, and clean and maintain the light regularly.
12. Do not touch the wire when the light is running to prevent electric shock.
13. Avoid entanglement of the power cord with other wires.
14. Do not open the light housing without authorization
15. Please cut off the power when the light is not used for a long time or for maintenance.

16. Do not look directly at the light when it is running.

2. Packing List

This series of products are packed in standard carton, air carton is optional, please read this manual carefully before using. Follow operating rules to avoid damage to light or bodily injury. Please handle the products carefully after receiving them, and check whether the products are damaged during transportation. Open the cover of the box, take out the relevant accessories in the box, take out the light, and place the lamp on a horizontal table to facilitate related operations. Note: Do not squeeze plastic parts to avoid breakage or distortion. Check the parts as follows:

Stage light 1 pcs cable 1 pcs manual 1 pcs

3. Installation Notes

1. When install this equipment please make sure there's no flammable surfaces (decorated things, etc) within at least 2.5M and maintain minimum distance of 0.5M from the equipment to the walls.
2. Before installation, please confirm whether the power supply voltage you are using matches the voltage marked by the light.
3. Make sure that the ventilation fan and exhaust passage are not blocked by other equipment or decorative materials, such as newspapers, tablecloths, curtains, etc.
4. The equipment should be fixedly installed. To ensure the stability of its installation point, at least a load-bearing structure that can withstand more than ten times the weight of the product.
5. For safety reasons, this machine should be connected to a main socket with a ground wire.

4. Technical Parameter

Rated voltage: AC110V~ AC220V 50Hz~60Hz

Rated power: 150W@220V

Laser color: RGB full color

Laser power: 4W

Laser diode: RGB500MW *8

Modulation: TTL

Control mode: DMX512, auto, music, master/slave

Channel: 12CH/20CH

Y axis scan angle : 0-180 degree

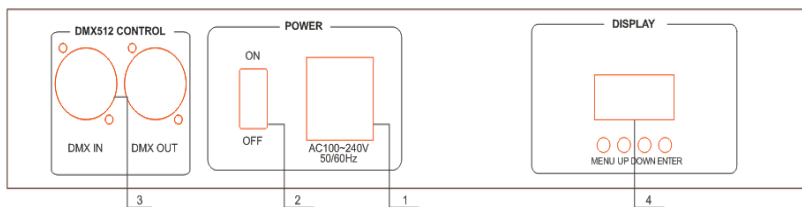
Scan system: stepper motor

Motor scan angle: ±25 degree

Working environment: indoor

Laser size: 107 x 8 x 6.8 CM

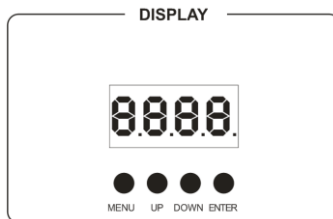
5. Light Control Panel



NO.	Interface Name
1	Power input interface

2	Power switch
3	DMX512 interface (in/out)
4	Menu

6. Light Setting











Instructions for operation: Press the function key "MENU" to cycle through eight different functional effects. The first two digits of the digital tube represent the current function (refer to the function table). The last two digits represent the address code/or speed parameter where the function is located. Press "UP", "DOWN" keys to modify its parameter value. Press "ENTER" to confirm.

6.1 LED digital control panel function mode settings are as follows:

ADDR	A001---A512
CHND	12CH/20CH
SLND	MASTER/SLAVE (Select the SLAV slave mode and save it, turn off the automatic switch to the straight mode without DMX.)

SHND	SOUND/AUTO
AUTO	OFF- motor works
	ON- motor no work
	0-255 Motor angle adjustment
SENS	Sound sensitivity (0 off, 100 most sensitive)
PAN	YES/NO Motor horizontal reverse
LED	ON/OFF
TEST	Test
VER	XXX

6.2 LED digital display function comparison table (in A001 mode, long press the "MENU" button to enter the background function) press the "ENTER" button to exit, as shown in the following table:

No.	LED	Description
1	 (000~255)	Press "UP,DOWN" motor strength adjustable (default )
2	 (000~255)	Press "UP,DOWN" correct the motor (default )
3	 (000~255)	Press "UP,DOWN" motor speed adjustable (default )
4	 (t...f)	Press "UP,DOWN" motor reverse (default )

7. Light Control mode

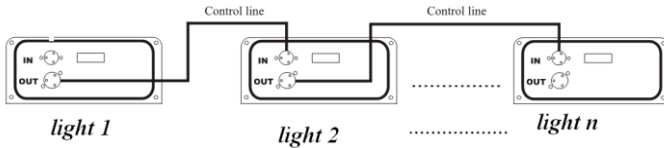
DMX512 control mode

After setting the DMX512 address code, the fixture will receive the standard DMX512 signal.

Master-slave mode

Host - Press the UP and DOWN buttons in the main menu to enter the "SLND" menu / set the host to MASTER (default is SLAVE), and the fixture is the host at this time.

Slave - Press the UP and DOWN buttons in the main menu to enter the "SLND" menu / the slave is set to SLAVE (the default is SLAVE, press the BACK button to return to the "DMX address" menu and the DMX address is set to 001. At this time, the fixture is a slave.



Sound mode

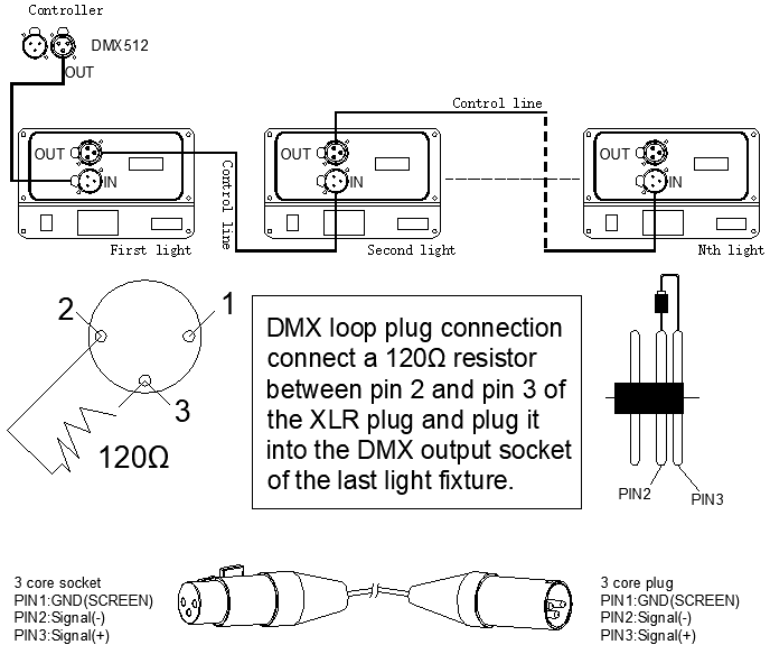
Lights in voice control mode, press the voice control.

Auto mode

When the fixture is not connected to an external signal, the device can choose to run automatically.

8. DMX512 Control

8.1 DMX512 Connect



1 In order to reduce signal errors and avoid signal weakening or interference during transmission, a 120Ω resistance loop can be inserted between the 2 cores and the 3 cores of the DMX output terminal of the last machine.

2. Connect the lamp with XLR signal, one end is connected to the output port of the lamp, and the other end is connected to the input port of the next lamp. XLR signal lines can only be used in series, not in parallel. DMX512 signal transmission speed is very fast. Damage to the signal line, weak welding, poor contact, etc., will affect the signal transmission and cause the system to shut down.

3. When a unit of machine power disconnect, DMX output or input connection is bypass, in order to maintain the DMX line and connectivity.

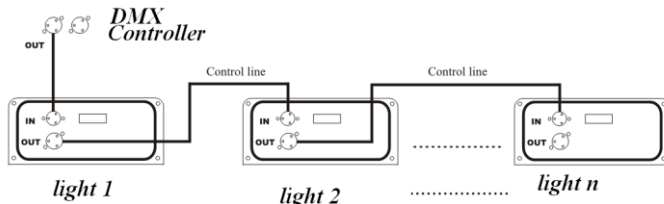
4. Each lamp must have an address code, which can receive the information sent by the console, ranging from 1 to 512.
 5. The terminal of the DMX512 system needs to be equipped with a terminator to reduce signal transmission errors.
 6. The 3-pin XLR connector is more common than the 5-pin XLR:
- 3 pin XLR: PIN1: GND, PIN2: - Signal , PNI3: + Signal
- 5 pin XLR: PIN1: GND, PIN2: - Signal, PIN3: + Signal, PIN4/PIN5:No USE

8.2 Chanel setting:

Press the MENU button to enter the menu, select the "CHND" setting, the channel mode is (12/20CH), select the channel mode you need, and press the ENTER key to confirm.

Address code setting

Connect the XLR control line from the DMX output port of the controller to the DMX input port of each fixture, and so on, until all the fixtures are connected, and then connect the loop plug to the signal output port of the last fixture. Complete the connection as shown below:



When using any controller, each must have its own address code. Therefore, the address of the first fixture is set to 1, the address code of the second fixture is set to 13 or 21, and the address of the third fixture is set to 25 or 41. And so on (this setting method also needs to be determined according to different consoles, and now it is only a general rule). Specific dmX-512 signal control mode address code switch Settings are as follows:

Light NO.	Start Address	Display (ON)
1	1	1
2	13 or 21	A0.13 or A0.21
3	25 or 41	A0.25 or A0.41
⋮	⋮	⋮

8.3 DMX-512 Channel introduce:

12CH:

Channel	Function	Specification
CH1	Dimmer	← 128 OFF, 128 → ON
CH2	Strobe	Slow → fast
CH3	Motor	Motor angle (0—180°)
CH4	Motor	Motor speed
CH5	Red color	0---255 0---100% brightness
CH6	Green color	0---255 0---100% brightness
CH7	Blue color	0---255 0---100% brightness
CH8	Effect	0---15 No effect 16---27 effect 1 28---39 effect 2 40---51 effect 3 52---63 effect 4 64---75 effect 5 76---87 effect 6 88---99 effect 7 100---111 effect 8 112---123 effect 9 124---135 effect 10 136---147 effect 11 148---159 effect 12 160---171 effect 13 172---183 effect 14 184---195 effect 15 196---207 effect 16 208---219 effect 17 220---231 effect 18 232---243 effect 19 244---255 effect 20
CH9	Effect speed	0---255 speed from fast to slow

CH10	Auto play	0---55	No function
		56---80	Effect 1 (XY not work)
		81---105	Effect 2 (XY not work)
		106---130	Effect 3 (XY not work)
		131---155	Effect 4 (XY not work)
		156---180	Effect 5 (XY not work)
		181---205	Sound (XY not work)
		206---230	Effect 6 (XY not work)
		231---255	Sound 7 (XY not work)
CH11	Auto play speed	0---255 auto play speed from fast to slow	
CH12	Reset	0----249 no function, 250---255 reset(5s)	

20CH:

Channel	Function	Specification
CH1	Dimmer	← 128 OFF, 128 → ON
CH2	Strobe	Slow → fast
CH3	Motor	Motor angle (0—180°)
CH4	Motor	Motor speed
CH5	Red color	0---255 0---100% brightness
CH6	Green color	0---255 0---100% brightness
CH7	Blue color	0---255 0---100% brightness

CH8	Effect	0---15	No effect	28---39	effect 2
		16---27	effect 1	52---63	effect 4
		40---51	effect 3	76---87	effect 6
		64---75	effect 5	100---111	effect 8
		88---99	effect 7	124---135	effect 10
		112---123	effect 9	148---159	effect 12
		136---147	effect 11	172---183	effect 14
		160---171	effect 13	196---207	effect 16
		184---195	effect 15	220---231	effect 18
		208---219	effect 17	244---255	effect 20
		232---243	effect 19		
CH9	Effect speed	0---255 speed from fast to slow			
CH10	Auto play	0---55	No function		
		56---80	Effect 1	(XY not work)	
		81---105	Effect 2	(XY not work)	
		106---130	Effect 3	(XY not work)	
		131---155	Effect 4	(XY not work)	
		156---180	Effect 5	(XY not work)	
		181---205	Sound	(XY not work)	
		206---230	Effect 6	(XY not work)	
		231---255	Sound 7	(XY not work)	
CH11	Auto play speed	0---255 auto play speed from fast to slow			
CH12	Group 1 color option	0---31	Off	32---63	red
		64---95	green	96---127	blue
		128---159	yellow	160---191	purple
		192---223	cyan		
		224---255	full brightness		
CH13	Group 2 color option	0---31	Off	32---63	red
		64---95	green	96---127	blue

		128---159	yellow	160---191	purple
		192---223	cyan		
		224---255	full brightness		
CH14	Group 3 color option	0---31	Off	32---63	red
		64---95	green	96---127	blue
		128---159	yellow	160---191	purple
		192---223	cyan		
		224---255	full brightness		
CH15	Group 4 color option	0---31	Off	32---63	red
		64---95	green	96---127	blue
		128---159	yellow	160---191	purple
		192---223	cyan		
		224---255	full brightness		
CH16	Group 5 color option	0---31	Off	32---63	red
		64---95	green	96---127	blue
		128---159	yellow	160---191	purple
		192---223	cyan		
		224---255	full brightness		
CH17	Group 6 color option	0---31	Off	32---63	red
		64---95	green	96---127	blue
		128---159	yellow	160---191	purple
		192---223	cyan		
		224---255	full brightness		
CH18	Group 7 color option	0---31	Off	32---63	red
		64---95	green	96---127	blue
		128---159	yellow	160---191	purple
		192---223	cyan		
		224---255	full brightness		
CH19	Group 8 color option	0---31	Off	32---63	red
		64---95	green	96---127	blue

		128---159 yellow 160---191 purple 192---223 cyan 224---255 full brightness
CH20	Reset	0---249 No function, 250--255 reset (5s)

9. Maintenance

Maintenance should be performed every 3 month, different period according to the environment. Use a sponge which is dipped with alcohol, rather than wet cloth or other chemical liquid, to clean the mirror.

Always disconnect from the power before maintenance .

10. Warning

Do not look at the light source directly. Power must be disconnected before install and maintenance.

11. Declaration

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and the warning note written in his user manual.

We cannot be made liable for damages caused by incorrect installations and unskilled operation!

Product common breakdown comparison table	
breakdown cause	Major breakdown analysis and solution
The fixture no light or no work	<ol style="list-style-type: none"> 1. Check the power cable whether to connect the fixture, whether the fuse does bum out. 2. Check the input voltage whether to assign the voltage match with the fixture.
No sound control	<ol style="list-style-type: none"> 1. Check the address code or the display whether establishes according to the instruction booklet is the voice control pattern. 2. Check the potentiometer possibly moves is smallest, attempt to adjust the potentiometer.
The fixture can bright normally, but it not controlled by controller	<ol style="list-style-type: none"> 1. Please check the fixtures' DIP outset address setting whether correctly. 2. Please check the XLR signal cable whether be damage.
Master-slave mode, the master mode is normal, but slave mode is not normal	<ol style="list-style-type: none"> 1. Please conformed only one for the master and the master without DMX be connected, and to set master as sound control or auto pattern. 2. If the Master-slave setting is right but still have problem, please check the XLR connect cable.
The button malfunction, does not work.	<ol style="list-style-type: none"> 1. Check the buttons whether to have some button not to have the normal reset.
The fixtures' brightness obvious dim	<ol style="list-style-type: none"> 1. Check the LED tubes or the light already whether to be service life. 2. Check the internal and external optical system whether to be clean.
If above method cannot eliminate the fault, please contact us.	