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## 6x500mW RGB 3in1 Laser Bar



### User manual

Please read the instructions carefully before use

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## STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

## 1. Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

Unpack and check carefully there is no transportation damage before using the unit.

Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

The unit is for indoor use only. Use only in a dry location.

The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

Disconnect main power before replacement or servicing.

Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

Maximum ambient temperature is  $T_a$ : 40°C. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

DO NOT touch any wire during operation as high voltage might be causing electric shock.

## **WARNING:**

To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

DO NOT open the unit within five minutes after switching off.

The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

## **CAUTION:**

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

## **INSTALLATION:**

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture. The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

## **2. Technical Specifications**

Voltage: AC110V /AC230V  $\pm 10\%$

Frequency: 50Hz~60Hz

Rated power: 90w

Laser power: 500mw\*6

Laser resource: Semiconductor laser generator

Laser color: RGB

Scanning angle:  $\pm 90$  degree

Channel: 11-26-38CH

Control signal: International standard DMX-512 signal

Work environment: indoor

# 3. How to Control The Device

The DMX512 is widely used in intelligent lighting control,with a DMX 512 controller.connect several lights together,dmx in and dmxx out, 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

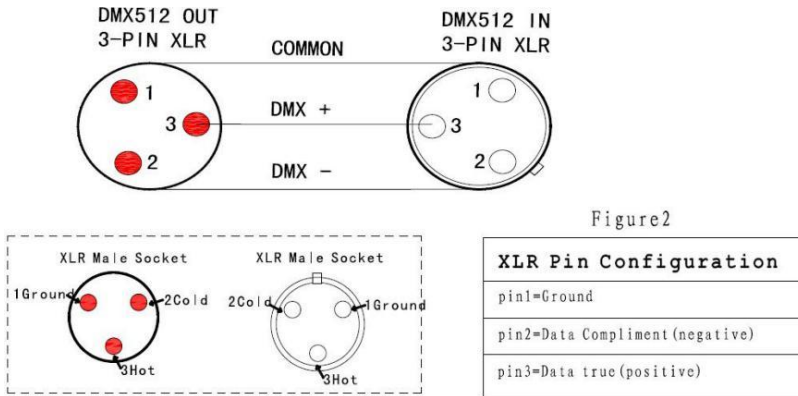


Figure2

## Display:

- MENU To select the programming functions
- DOWN To go backward in the selected functions
- UP To go forward in the selected functions
- ENTER To confirm the selected functions

Set DMX Address Code

1. Press "**Menu**" to "Set DMX Address",and press "**ENTER**" keys to enter into
2. Show "Set DMX Address DMX Address:001",Press the "**UP** and **DOWN**" keys to amended
- 3 Press "**ENTER**" keys to save and Exit,Press the "**MENU**" Keys does not save and Exit

DMX Address	A001 --- A512 ( DMX address setting )
Channel Mode	11/26/38 CHs (DMX channel setting )
Show Mode	SOUND / Auto Run ( Effect selection )
Slave Mode	MASTER / SLAVE ( Selection of main and auxiliary engines )
Black Out	YES / NO ( Standby mode )
Sound State	ON / OFF ( Voice operated switch )
Sound Sense	Voice control sensitivity ( 0 off, 100 most sensitive )
Pan Inverse	YES / NO ( Horizontal reverse )
Tilt 1 Inverse	YES / NO ( Vertical reverse )
Tilt 2 Inverse	YES / NO ( Vertical reverse )
Tilt 3 Inverse	YES / NO ( Vertical reverse )
Tilt 4 Inverse	YES / NO ( Vertical reverse )
Tilt 5 Inverse	YES / NO ( Vertical reverse )
Tilt 6 Inverse	YES / NO ( Vertical reverse )

Back Light	ON / OFF ( Backlight switch )
Auto Test	Automatic testing
Firmware Version	V104 software version No.
Defaults	YES / NO (Restore factory settings )
System Reset	YES / NO ( Whole machine reset )

## 11/26/38 DMX channels mode:

### 11CHs

Channel	Function	Value	Description
1	X-axis motor stroke	0-255	0° - 360° location
2	X-axis motor speed	0-255	From fast to slow
3	Y1 - Y6 Shaft motor stroke	0	No Function
		0-255	0° - 360° location
4	Y - axis motor speed	0-255	From fast to slow
5	Auto running	0-55	No function
		56-80	Self walking effect 1
		81-105	Self walking effect 2
		106-130	Self walking effect 3
		131-155	Self walking effect 4
		156-180	Self walking effect 5
		181-205	Voice control
		206-230	Self walking effect 6
		231-255	Voice control
6	Auto running speed		Auto running speed and voice control sensitivity

7	Total laser dimming	0-255	0-100%
8	Strobe	0-9	No function
		10-255	Stroboscopic speed from slow to fast
9	Laser effect	0-15	No function
		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		
10	Laser effect speed	0-255	Auto running speed from fast to slow
11	Reset	0-249	No function
		250-255	Reset the whole machin ( the value stays for 5 seconds )



## 26 CHs:

Channel	Function	Value	Description
1	X-axis motor stroke	0-255	0° - 360° location
2	X-axis motor speed	0-255	From fast to slow
3	Y1 Shaft motor stroke	0-255	0° - 360° location
4	Y2 Shaft motor stroke	0-255	0° - 360° location
5	Y3 Shaft motor stroke	0-255	0° - 360° location
6	Y4 Shaft motor stroke	0-255	0° - 360° location
7	Y5 Shaft motor stroke	0-255	0° - 360° location
8	Y6 Shaft motor stroke	0-255	0° - 360° location
9	Y1-Y6 Shaft motor stroke:	0	No function
		0-255	0° - 360° location
10	Y - axis motor speed	0-255	From fast to slow
11	Auto running	0-55	No function
		56-80	Self walking effect 1
		81-105	Self walking effect 2
		106-130	Self walking effect 3
		131-155	Self walking effect 4
		156-180	Self walking effect 5
		181-205	Voice control
		206-230	Self walking effect 6
		231-255	Voice control
12	Auto running Speed		Auto running speed and voice

			control sensitivity
13	Total laser dimming	0-255	0-100%
14	Strobe	0-9	No function
		10-255	Stroboscopic speed from slow to fast
15	Red laser1-6 dimming	0	No function
		1-255	1-100% dimming
16	Green laser1-6 dimming	0	No function
		1-255	1-100% dimming
17	Blue laser 1-6 dimming	0	No function
		1-255	1-100% dimming
18	The first group of RGB lasers	0-31	shut
		32-63	Red
		64-95	Green
		96-127	Blue
		128-159	Yellow
		160-191	Violet
		192-223	Cyan
		224-255	All bright
19	The second group of RGB lasers	0-31	shut
		32-63	Red
		64-95	Green
		96-127	Blue
		128-159	Yellow
		160-191	Violet
		192-223	Cyan
		224-255	All bright
20	The third group of RGB lasers	0-31	shut
		32-63	Red
		64-95	Green
		96-127	Blue
		128-159	Yellow

		160-191	Violet
		192-223	Cyan
		224-255	All bright
21	The fourth group of RGB lasers	0-31	shut
		32-63	Red
		64-95	Green
		96-127	Blue
		128-159	Yellow
		160-191	Violet
		192-223	Cyan
		224-255	All bright
22	The fifth group of RGB lasers	0-31	shut
		32-63	Red
		64-95	Green
		96-127	Blue
		128-159	Yellow
		160-191	Violet
		192-223	Cyan
		224-255	All bright
23	The Sixth group of RGB lasers	0-31	shut
		32-63	Red
		64-95	Green
		96-127	Blue
		128-159	Yellow
		160-191	Violet
		192-223	Cyan
		224-255	All bright
		0-15	No function
		16-27	Effect 1

24	Laser effect	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
25	Laser effect speed	0-255	Auto running speed from fast to slow
26	Reset	0-249	No function
		250-255	Reset the whole machin ( the value stays for 5 seconds )

### 38 CHs:

Channel	Function	Value	Description
1	X-axis motor stroke	0-255	0° - 360° location
2	X-axis motor speed	0-255	From fast to slow
3	Y1 Shaft motor	0-255	0° - 360° location

	stroke		
4	Y2 Shaft motor stroke	0-255	0° - 360° location
5	Y3 Shaft motor stroke	0-255	0° - 360° location
6	Y4 Shaft motor stroke	0-255	0° - 360° location
7	Y5 Shaft motor stroke	0-255	0° - 360° location
8	Y6 Shaft motor stroke	0-255	0° - 360° location
9	Y1-Y6 Shaft motor stroke:	0	No function
		0-255	0° - 360° location
10	Y - axis motor speed	0-255	From fast to slow
11	Auto running	0-55	No function
		56-80	Self walking effect 1
		81-105	Self walking effect 2
		106-130	Self walking effect 3
		131-155	Self walking effect 4
		156-180	Self walking effect 5
		181-205	Voice control
		206-230	Self walking effect 6
		231-255	Voice control
12	Auto running Speed		Auto running speed and voice control sensitivity
13	Total laser dimming	0-255	0-100%
14	Strobe	0-9	No function
		10-255	Stroboscopic speed from slow to fast
15	Red laser1-6 dimming	0	No function
		1-255	1-100% dimming
16	Green laser1-6	0	No function

	dimming	1-255	1-100% dimming
17	Blue laser 1-6 dimming	0	No function
		1-255	1-100% dimming
18	1 <sup>st</sup> set of red lasers	0-255	0-100% dimming
19	1 <sup>st</sup> set of green lasers	0-255	0-100% dimming
20	1 <sup>st</sup> set of blue lasers	0-255	0-100% dimming
21	2 <sup>nd</sup> set of red lasers	0-255	0-100% dimming
22	2 <sup>nd</sup> set of green lasers	0-255	0-100% dimming
23	2 <sup>nd</sup> set of blue lasers	0-255	0-100% dimming
24	3 <sup>rd</sup> set of red lasers	0-255	0-100% dimming
25	3 <sup>rd</sup> set of green lasers	0-255	0-100% dimming
26	3 <sup>rd</sup> set of blue lasers	0-255	0-100% dimming
27	4 <sup>th</sup> set of red lasers	0-255	0-100% dimming
28	4 <sup>th</sup> set of green lasers	0-255	0-100% dimming
29	4 <sup>th</sup> set of blue lasers	0-255	0-100% dimming
30	5 <sup>th</sup> set of red lasers	0-255	0-100% dimming
31	5 <sup>th</sup> set of green lasers	0-255	0-100% dimming
32	5 <sup>th</sup> set of blue lasers	0-255	0-100% dimming
33	6 <sup>th</sup> set of red lasers	0-255	0-100% dimming
34	6 <sup>th</sup> set of green lasers	0-255	0-100% dimming
35	6 <sup>th</sup> set of blue lasers	0-255	0-100% dimming
36	Laser effect	0-15	No function
		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
37	Laser effect speed	0-255	Auto running speed from fast to slow
38	Reset	0-249	No function
		250-255	Reset the whole machin ( the value stays for 5 seconds )

## 4. Computer tuning function operation:

Press the menu key " MENU ", enter the menu, press the " Enter " key for at least

3 seconds, the menu interface displays “ Pan offset ”, press the Enter key to adjust the motor position within the value -127-127, and then press the Enter key to save the fine adjustment value you set.

# 5.Using Instructions

● **Using Instructions:**

After unfolding the package, please check whether the projector has been damaged by transport such as any screw loosening, reflecting mirror broken, etc. If everything is OK, select a proper location, hang the projector and adjust its angle properly, then connect the power cord and the ground wire before switch on at the means.

Notice that while using this projector the green and yellow wire has to connect the ground properly by professionals. Please examine the electrics and voltage before power on it. We suggest customer apply 110V/230V or a transformer. 20 seconds after powered on the projector, it will self-check for 5 seconds and then can be used.

As a result of solid semiconductor laser generator’s operating characteristic, and in order to secure the laser `s long life span, please terminate it for 10 minutes after using it for 30 minutes. This can ensure the life of laser source.

Mode setting: laser show device is switch type address code, It is used to control the laser effect performing, 1—9 is DMX - 512 signal dial the code switch, 0 is DMX - 512 signal control and acoustic control switch:

Mode		Binary dial the code (ON)
1	stand-alone sound control	10: ON
2	stand-alone auto run	9、10 : ON
3	Acoustic control master-slave mode	Master 10 :ON, slave1-10 is OFF



4	Since go master-slave mode	Master 9, 10: ON, slave1-10 is OFF
5	DMX-512 mode	10: OFF

Note: when switching work mode, drawing dynamic address code switch after need to restart your power to work properly!!!!!! Otherwise laser can't work normally

- Safety command



! Please make sure the light body had disconnected from the power supply before you install and repair it.

! Please ensure the smooth of the fan mouth, and the ventilation of the surround environment. Don't use it under the damp environment for long time.

! Stop using and repairing when the laser touched water. If for outdoor using, please do sufficient waterRGrBroof measures.

! The worker who want to install, use and repair the laser, must familiar to it, otherwise the laser can be damaged.

! Please don't use the power supply, voltage and laser generator with different specifications

! In order to avoid the damage to your eyes, please don't look straight to the laser light resource

- **Maintenance:**

1. It is very important to keep the laser light clean, therefore please clean reflector lens monthly to keep the lights away from dust, dirt or fog juice.

2. We suggest that clean the light with professional glass cleaning lotion and downy cloth. Keep the light clean regularly will not only maintain the maximum laser output brightness but also will extend the life span of the laser.