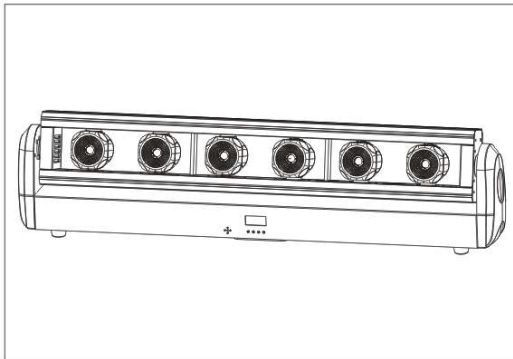


USER MANUAL



Moving Head Beam Bar

Professional Stage Lighting Laser show

Introduction

Thank you for purchasing this Lightful product.

To ensure proper operation, please read this manual carefully before using the product.

After reading it, keep it in a safe place for future reference.

This product has been tested at our factory before shipping to you, there is no assembly required.

Once after receiving this product , please take and put carefully. And check cautiously that whether the product was damaged or not during the transportation.

Checking Parts

Please check if the following parts are included:

1 x Laser

1 x Power cable

1 x User manual

Danger Laser Radiation!

Avoid direct eye exposure!

Laser radiation can cause eye damage or skin damage

All protective measures for a safe operation of this laser must be applied.

Installation

1. Please check the voltage whether is the same with the one showed on the equipment or not.
2. It must ask for the technical person and set the light safety when installation. And let the light beam at the suitable angle.
3. 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.
4. Please make sure that there's no other equipment or decorating materials obstructed the exhaust fan and the vent-pipe.
5. Products should be install immobility.
6. In case of safety, it's very important that to connect the earth with line.

Attention

1. Please do not open the bottom cover yourself without permission. Operate it accord the user manual. Call the technician when the machine breaks down.
2. Please do not see the laser beam directly to avoid any damage.
3. Before connect or disconnect the power, please adjust the luminance of the laser diode to the least to avoid any damage to the laser diode.
4. This unit should be keep dry, do not use in the rain and dusty environment. It can be use in the outdoor with the water-proof cover protector.
5. Set the light immobility and try to avoid strong shake or hit.

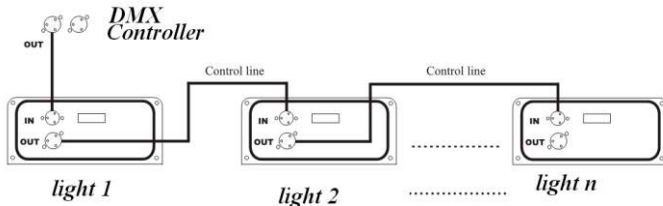
6. Prevent dust into the equipment to avoid problems.
7. Please keep that there's no other equipment or decorating materials obstructed the exhaust fan and the vent-pipe when the equipment was working.
8. Before connect power, check the plug is immobility or not, power line should be connect well.
9. Please do not open or close the equipment frequently that's to avoid any affect to the life span of the laser diode, and try the best to avoid the long time working.
10. Due to the characteristic of the laser diode, after four hours working, it should be close at least 25 minutes until the laser diode cooling then work again.
11. Don't touch the light or draw the power line when your hand was wet. And do not pull the electronic power line.
12. Maintain the distance at least 3M above from the equipment to the object.
13. This equipment does not have any parts can repair for the users, please do not open the equipment.
14. When the laser diode became dim or damaged please contact the dealer timely.
15. When you want to re-transfer the product, you'd better use the original package to shockproof.

LCD Function Menu

Menu	Secondary menu
DMX address	DMX address 001-512
Channel mode	11CH/23CH/30CH
Mode select	DMX512
	Master
	Slave 1
	Slave2
Auto Run mode	Auto 0-16 Speed 0-9
Sound mode	Show 0-16
Sound sense	0-100
Back lights	On/Off
Pan Inverse	Yes/No
Tilt Inverse	Yes/No
Auto Test	Test
Fixture	Fixture T
Firmware Version	V1.0
Motor Reset	Reset
Default	Yes/No

DMX Setting

Input DMX signal, and the link the DMX controller and the lights by the control line as the following picture, you can control the lights by the controller.



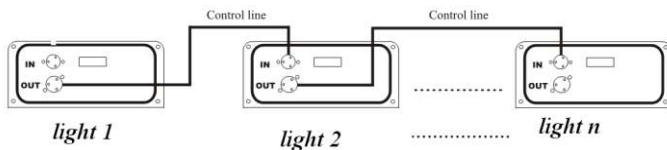
When using any controller, each one must have its own address. The first light address is set to 1, the second light address code is set to 12 or 24 (the first light address code 1 plus 11 or 23 channel), the third set of lights on the 23 or 47 position. So on (This setting also need to be based on different console to set, now only by general practice)

DMX - 512 control mode as following :

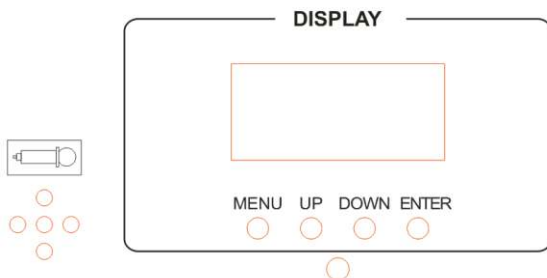
Number	Address	LCD display(No.)
1	1	001
2	12 or 24 or 31	012 or 024 or 031
3	23 or 47 or 61	023 or 047 or 061
⋮	⋮	⋮

Master-slave Setting

Link the lights as the following picture (the light which does not receive signal, only output signal, will be the master light),



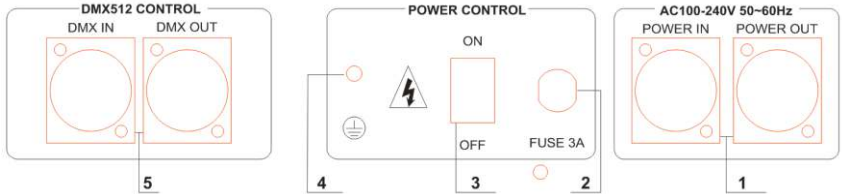
- LCD display panel, as following :



Operation: Press "MENU" will cycle fourteen different effect..
Press"UP", "DOWN"key to modify values. Press"ENTER" key to confirm.

- **Using before please must be check power supply link with earth wire correctly or not.**
- **The specification of the front and rear panel:**
 1. Input rated voltage
 2. Fuse

3. Power switch button
4. Ground marking
5. DMX IN/ DMX OUT: DMX signal output and input



Technical Specifications

1. Power Supply: AC100~240V 50/60Hz
2. Rated Power: 180W
3. Laser color:
 - Red-500mW*2+ Green-100mW*2+ Blue-500mW*2
 - Green-100mW*6
 - Red-500mW*6
 - Blue-500mW*6
4. Y axis rotation angle: 0-240°
5. Z axis rotation angle: 0-140°
6. Scanner system: Stepper motor
7. Working Mode: Sound/Automatic/DMX512/Master-Slave
8. Auto mode: 16 kinds of automatic dynamic effect/ 16 kinds of sound trigger dynamic effect
9. DMX Control Channel: 11CH/23CH/30CH
10. Cool system: forced air cooling system
11. Working temperature: 0°C - 35°C

12. N.W./G.W.: 19kg/25kg (2pcs)

13. Package size: 100.5*46.5*32.5cm

DMX-512 Channel Introduction

Channel	Value	Function
CH1	000-007	CH2-CH23 off (laser off, motor control)
	008-255	CH2-CH23 on (laser on)
CH2	001-255	Strobe speed from slow to fast
CH3	000-007	Invalid
	008-022	Y, Z axis action 01
	023-037	Y, Z axis action 02
	038-052	Y, Z axis action 03
	053-067	Y, Z axis action 04
	068-082	Y, Z axis action 05
	083-097	Y, Z axis action 06
	098-112	Y, Z axis action 07
	113-127	Y, Z axis action 08
	128-142	Y, Z axis action 09
	143-157	Y, Z axis action 10
	158-172	Y, Z axis action 11
	173-187	Y, Z axis action 12
	188-202	Y, Z axis action 13
	203-217	Y, Z axis action 14
218-232	Y, Z axis action 15	

	233-247	Y, Z axis action 16
	248-255	Sound trigger
CH4	001-255	Y, Z axis action speed from slow to fast (only valid for CH3 008-247)
CH5	000-014	Invalid
	015-035	Color chase 1
	036-056	Color chase 2
	057-076	Color chase 3
	077-097	Color chase 4
	098-117	Color chase 5
	118-255	Full brightness
CH6	001-255	Y, Z axis action speed from slow to fast (only valid for CH5 015-117)
CH7	001-255	Y axis rotating angle 0 -230°
CH8	001-255	Y axis fine tuning
CH9	001-255	Z axis rotating angle 0 -140°
CH10	001-255	Z axis fine tuning
CH11	001-255	Y, Z axis rotating speed (only valid for CH7/CH8/CH9/CH10)
CH12	001-255	Z1 rotating angle 0-140°
CH13	001-255	Z1 axis fine tuning
CH14	001-255	Z1 on/off
CH15	001-255	Z2 rotating angle 0-140°
CH16	001-255	Z2 axis fine tuning
CH17	001-255	Z2 on/off
CH18	001-255	Z3 rotating angle 0-140°
CH19	001-255	Z3 axis fine tuning

CH20	001-255	Z3 on/off
CH21	001-255	Z4 rotating angle 0-140°
CH22	001-255	Z4 axis fine tuning
CH23	001-255	Z4 on/off
CH24	001-255	Z5 rotating angle 0-140°
CH25	001-255	Z5 axis fine tuning
CH26	001-255	Z5 on/off
CH27	001-255	Z6 rotating angle 0-140°
CH28	001-255	Z6 axis fine tuning
CH29	001-255	Z6 on/off
CH30	000-128	No function
	128-255	Motor reset after 5s

1. 23CH mode as following:

Channel	Value	Function
CH1	000-007	CH2-CH23 off (laser off, motor control)
	008-255	CH2-CH23 on (laser on)
CH2	001-255	Strobe speed from slow to fast
CH3	000-007	Invalid
	008-022	Y, Z axis action 01
	023-037	Y, Z axis action 02
	038-052	Y, Z axis action 03
	053-067	Y, Z axis action 04
	068-082	Y, Z axis action 05
	083-097	Y, Z axis action 06
	098-112	Y, Z axis action 07
	113-127	Y, Z axis action 08

	128-142	Y, Z axis action 09
	143-157	Y, Z axis action10
	158-172	Y, Z axis action 11
	173-187	Y, Z axis action12
	188-202	Y, Z axis action 13
	203-217	Y, Z axis action 14
	218-232	Y, Z axis action 15
	233-247	Y, Z axis action 16
	248-255	Sound trigger
CH4	000-255	Y, Z axis action speed from slow to fast (only valid for CH3 008-247)
CH5	000-014	Invalid
	015-035	Color chase 1
	036-056	Color chase 2
	057-076	Color chase 3
	077-097	Color chase 4
	098-117	Color chase 5
	118-255	Full brightness
CH6	001 - 255	Color chase speed from slow to fast (only valid for CH5 015-117)
CH7	001 - 255	Y axis rotating angle 0 -230°
CH8	001 - 255	Y axis fine tuning
CH9	001 - 255	Z axis rotating angle 0 -140°, Only when the CH9 value is =0, 11CH/13CH/15CH/17CH/19CH/21CH alone is effective

CH10	001 - 255	Y, Z axis rotating speed (only valid for CH7/CH9)
CH11	001 - 255	Z1 rotating angle 0-140°
CH12	001 - 255	Z1 on/off
CH13	001 - 255	Z2 rotating angle 0-140°
CH14	001 - 255	Z2 on/off
CH15	001 - 255	Z3 rotating angle 0-140°
CH16	001 - 255	Z3 on/off
CH17	001 - 255	Z4 rotating angle 0-140°
CH18	001 - 255	Z4 on/off
CH19	001 - 255	Z5 rotating angle 0-140°
CH20	001 - 255	Z5 on/off
CH21	001 - 255	Z6 rotating angle 0-140°
CH22	001 - 255	Z6 on/off
CH23	0-128	No function
	128-255	Motor reset after 5s

2. 11CH mode as following:

Channel	Value	Function
CH1	000 -007	CH2-CH11 off (laser off, motor control)
	008-255	CH2-CH11 on (laser on)
CH2	001-255	Strobe speed from slow to fast
CH3	000-007	Invalid
	008-022	Y, Z axis action 01
	023-037	Y, Z axis action 02
	038-052	Y, Z axis action 03

	053-067	Y, Z axis action 04
	068-082	Y, Z axis action 05
	083-097	Y, Z axis action 06
	098-112	Y, Z axis action 07
	113-127	Y, Z axis action 08
	128-142	Y, Z axis action 09
	143-157	Y, Z axis action 10
	158-172	Y, Z axis action 11
	173-187	Y, Z axis action 12
	188-202	Y,Z axis action 13
	203-217	Y, Z axis action 14
	218-232	Y, Z axis action 15
	233-247	Y, Z axis action 16
	248-255	Sound trigger
CH4	001-255	Y, Z axis action speed from slow to fast (only valid for CH3 008-247)
CH5	000-014	Invalid
	015 - 035	Color chase 1
	036 - 056	Color chase 2
	057 - 076	Color chase 3
	077 - 097	Color chase 4
	098-117	Color chase 5
	118-255	Full brightness
CH6	001-255	Color chase speed from slow to fast (only valid for CH5 015-117)
CH7	001 - 255	Y axis rotating angle 0-230°

CH8	001 - 255	Y axis fine tuning
CH9	001 -255	Z axis rotating angle 0 -140°, Only when the CH9 value is =0, 11CH/13CH/15CH/17CH/19CH/21CH alone is effective
CH10	001 -255	Y, Z axis rotating speed (only valid for CH7/CH9)
CH11	000-127	No function
	128-255	Motor reset after 5s

Maintenance

Maintenance should be performed every 15-day period, by using a sponge which is dipped with alcohol, rather than wet cloth or other chemical liquid, to clean the mirror.

Always disconnect from the power when the device is not in use or before cleaning it.

Warning

Power must be disconnected before maintenance or repair. Do not look at the light source directly

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 warning notes written in this user manual.

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

Product common breakdown comparative chart	
Breakdown cause	Major breakdown analysis and solution
The fixture no work	<ol style="list-style-type: none"> 1. Check the power cable ensure the fixture connect the power correctly and the fuse is ok. 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 or the display whether establishes according to the instruction booklet is the sound trigger mode.
The fixture can bright normally, but it not controlled by controller	<ol style="list-style-type: none"> 1. Please check the fixture DMX address setting correctly or not. 2. Please check the XLR signal cable whether be damage.

<p>Master-slave mode, The master mode is normal, but slave mode is not normal</p>	<ol style="list-style-type: none"> 1. Please ensure fixture 1 for the master and the master without DMX be connected, and to set master as sound control or auto pattern. 2. Master-slave set as DMX mode
<p>The button malfunction does not work</p>	<ol style="list-style-type: none"> 1. Check the buttons whether to have some button not to have the normal reset.
<p>The fixtures' brightness obvious dim</p>	<ol style="list-style-type: none"> 1. Check the internal and external optical system whether to be clean.