

1. General instructions

Thank you for purchasing this product. Please read user guide for safety and operations information before using the product for better use and safety operation. Keep this manual for future reference. This product can create perfect laser programs and effects since it has passed a series of strictly tests before delivery.


Please handle with care after receiving the unit and check the attachments listed on the page after opening the carton. In the event of carton damage or attachment missing in transit, please contact your dealer or our after sales service department.

Attachments:


1. Laser Light 1PCS
2. Power Cable 1PCS
3. User Guide 1PCS

2. Notice:

1. Do not exposure the human eye direct to laser beam.
2. Do not turn on and off the unit frequently.
3. Before using this unit makes sure the power supply is ground.
4. This unit is intended for indoor use only and should be prevented form water, moisture and shake. The working temperature of this unit is 18~30℃, do not use this continuously over 4 hours, otherwise it shortens the lifetime of the unit.
5. Use cleaning tissue to remove the dust absorbed on the external lenses periodically to optimize light output.
6. Do not remove or break the warranty label, otherwise it void the warranty.
7. Always replace with the exact same type fuse, replacement with anything other than the specified fuse can cause fire or electric shock and damage your unit, and will void your manufactures warranty.



This product installation operation and maintenance should be by professional.

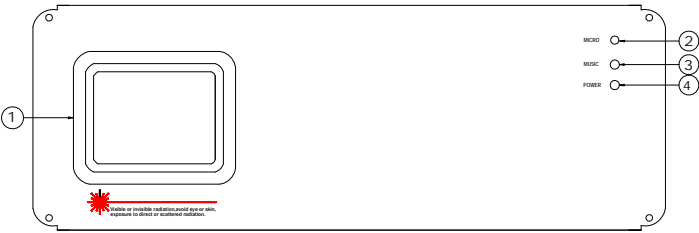


Warning! Do not exposure the human eye direct to laser beam.

3. Installation

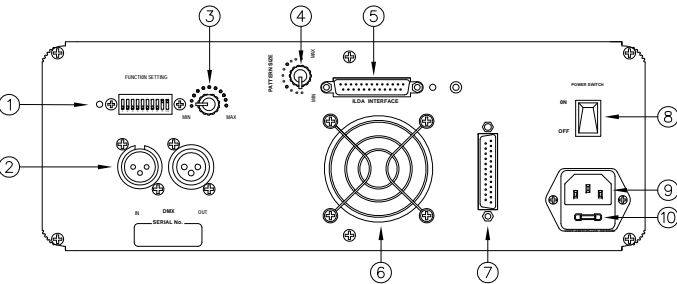
1. Before installation, please make sure power voltage is proper as the one marked on the unit.
2. This product should be installed by professional to make sure it is fixed safely and have adjusted suitable shining angel.
3. When installing this unit, please make sure there is nothing flammable or explosive 0.5 meter near the unit. Make sure there is 15 mm distance between the unit and the wall. Please make sure to use safety rope which can support tenfold weight of the unit to assist fitting.

4. Front Panel



1. Laser Aperture
2. Sound Active Microphone
3. Sound Active Indicator
4. Power Indicator

Rear Panel



- 1 Address Code On/ Off
- 2 DMX Connector
- 3 Sound Active Knob
- 4 Pattern Knob
- 5 ILDA Connector
- 6 Fan
- 7 ILDA Connector
- 8 Switch
- 9 Power supply
- 10 Fuse

5. Function Setting

Dipswitches #10 are use to set 4 working modes as Sound active, Automatic, Slave/Master and DMX mode. DMX MODE have DMX control channel address for setting, Namely DMX Address, see the function setting chart. When dipswitch 10# selected ON, Function of #1~#9 as below: 0=OFF 1=ON X=OFF or ON

DIPSWITCH CHART										FUNCTION
#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	
0	0	0	X	X	X	X	X	X	0	SOUND ACTIVE
1	0	0	X	X	X	X	X	X	0	AUTO-BEAM
1	1	0	X	X	X	X	X	X	0	AUTO-ANIMATION
0	0	1	X	X	X	X	X	X	0	SLAVE MODE

SET DMX ADDRESS	1	DMX MODE
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6. Stand-Alone Operation (Sound Active, AUTO mode)

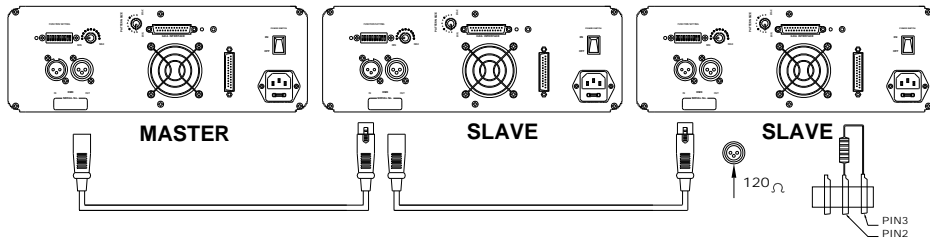
1. Set dipswitch to select Sound Active or AUTO mode.
2. The unit will react to the low frequencies of music via the internal microphone. Adjust the audio sensitivity knob on the back of the unit to make the unit more or less sensitive in sound active.

7. Master-Slave Operation

1. Choose a unit to function as Master mode, set dipswitch to select Sound Active or AUTO mode. The others must be set to Slave mode, set dipswitch to select Slave mode.
2. Use standard XLR microphone cable chain your units together via the XLR connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture.
3. Turn on the all units' power, the units begins reset, and then the unit begins working. The slave units will action the same as the master unit.

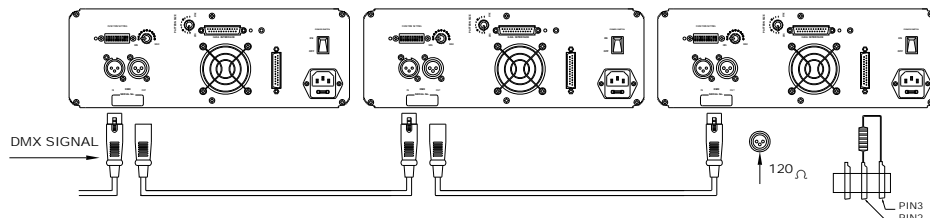
Master/Slave mode no need DMX controlled, There should be only one master unit in Master-Slave operation. For working time of slave and the master unit should at the same time, we suggest Master and Slave unit run from one power switch.

8. Master-Slave Connection



9. DMX Control Connection

The System only accepts the DMX512 signal of international standard to control the system mode, the laser beam ON/OFF, running direction, running speed and twinkle speed etc.



10. DMX Control Setting

Channel		512 Value	Description
1	Mode	0~49	Sound active mode
		50~99	Auto—Beam mode
		100~149	Auto—Animation mode
		150~255	DMX mode, Auto touch off
2	Flickering & Shut off	0~15	shut off
		16~25	no flickering
		26~135	flickering slow to fast
		136~245	frequently flickering long to short
		246~255	no flickering
3	Pattern change	0~162	128/256 patterns, two/one number allot one pattern
4	Vertical Moving	0	No change
		1~127	Hand control vertical moving
		128~191	Auto up moving. moving speed is positive pro rata to handspike value
		192~255	Auto down moving. moving speed is positive pro rata to handspike value
5	Horizontal Moving	0	No change
		1~127	Hand control horizontal moving
		128~191	Auto moving towards right hand side. moving speed is positive pro rata to handspike value
6	Vertically Overturn	0	
		1~127	Hand operated vertically reversal
		128~255	Automatic vertically reversal. reversal speed is positive pro rata to handspike value
7	Horizontal overturn	0	No change
		0~127	Hand operated horizontal reversal
		128~255	Automatic horizontal reversal. reversal speed is positive pro rata to handspike value
8	Rotation	0~127	Hand operated rotation
		128~191	Auto clockwise rotated. rotation speed is positive pro rata to handspike value
		192~255	Automatic counterclockwise rotated. rotation speed is positive pro rata to handspike value
9	Scale	0~85	Scale from small to large, scale speed is positive pro rata to handspike value

Laser Show System

		86~170	Scan from large to small, scale speed is positive pro rata to handspike value
		171~255	Alternate scale, scale speed is positive pro rata to handspike value
10	Size	0~255	0 original, 1min, 255max
11	Brightness	0~255	0 no brightness, 1min, 255max
12	Draw gradually	0~127	Auto Draw gradually 1, draw gradually speed is positive pro rata to handspike value
		127~255	Auto Draw gradually 2, draw gradually speed is positive pro rata to handspike value

11. Technical Parameter

Spec \ Item	A-2000B
Laser Light	Blue;
Laser Power	Blue:2000mW
Dimension	312*257*110mm
Net Weight	3.5kg
Scan System	High speed XY Scanner Module (scan speed>20kpps; scan angle±30°; input signal ±5v; linearity distortion<2%)
System Port	DMX512 input and output port, ILDA DB standard port
Control Mode	Sound Active, Automatic, DMX512(12 channels), Master/Slave, PC Control
Demo Effect	Blanking, rotating, zoom, retro flexion, moving, strobe, 3D etc, used for words, Cartoon, and beam show and laser advertisement.
Work Environment	10-35°C Indoor
Power Supply	AC100/240V 50-60Hz 100W
Work Place	Disco, KTV, Bars, Clubs, Family party, Opera House Advertisement etc.

12. Troubleshooting

- In Stand-Alone operation, if the power supply indicator is light up and sound active indicator isn't light up, but the laser is shut off doesn't work, Please check if unit has been set up in slave mode, then set up in master mode.
- In Master-Slave operation, slave unit don't function, please check as below.
 - Make sure to there's only one master in the chain, and the others are set in slave mode.
 - Make sure to control the unit without DMX console controlling.
 - Make sure to take a good quality power cable and connection.
- In DMX mode operation, the laser is OFF and the DMX signal indicator is unlighted, please check as below

Laser Show System

Make sure to set up the DMX mode, make sure to have a good connection.

- In DMX operation, the unit can't be controlled by the DMX console, but the DMX signal indicator is flashing, please make sure the DMX console and unit have the same channel.
- If the unit is fail, please turn off the unit, and then turn on again after 5 minutes.
- After trying the above solution you still have a problem, please contact your dealer or our company for service.

Trouble manifestation	Trouble shooting
If the power supply indicator doesn't light up and laser doesn't work	Please check the power supply and the input voltage
If the sound active indicator isn't light up with music active	Please increase the music volume or audio sensitivity with sensitivity knob
In Automatic mode operation, if power supply indicator is light up, but laser light is not light up	Please check if any trouble with laser machinery
If the laser beam is at rest in working mode	Product problem
After trying the above solution you still have a problem, please contact your dealer or our company for service	