

Laser Show System

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.

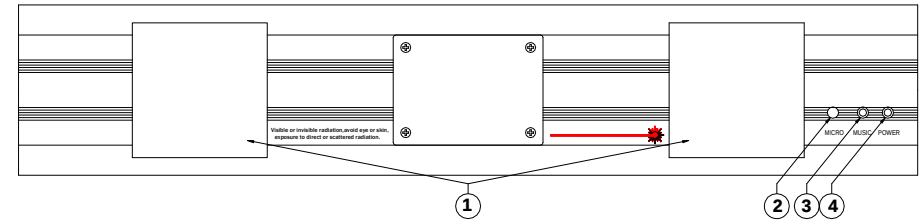
3. Installation

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.

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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



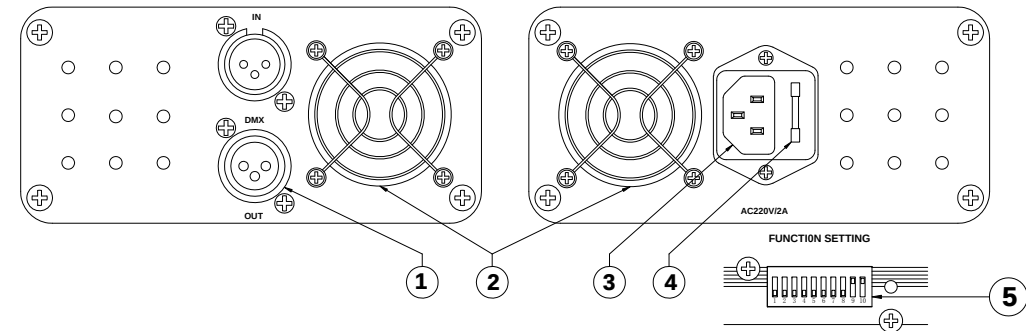
1. Laser Aperture

2. Sound Active Microphone

3. Sound Active Indicator

4. Power Indicator

5. Rear Panel



1. DMX Input/ Output

2. Fan

3. Power input connector

4. Fuses

5. Address code selection

6. 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

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DIPSWITCH CHART										FUNCTION
#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	
X	X	X	X	X	X	X	X	0	1	SOUND ACTIVE
X	X	X	X	X	X	X	X	1	1	AUTO MODE
SET DMX ADDRESS									0	DMX

7. 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.

8. DMX Control Setting

Channel	Function	Value	Description
1	Mode	0~69	Cut off
		70~139	Sound active
		140~209	Automatic
		210~255	manual
2	pattern selection	0~33	static pattern
		34~255	dynamic pattern
3	Vertical move	0~160	Manual control
		161~190	Automatic from down to up
		191~220	Automatic from up to down
		221~255	Automatic up and down
4	Horizontal move	0~160	Manual control
		161~190	Automatic from left to right
		191~220	Automatic from right to left
		221~255	Automatic left and right
5	Scale	0~2	No scale
		3~92	manual

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		93~146	Automatic from small to big
		147~200	Automatic from big to small
		201~255	Automatic big and small
6	Vertical stretch	0~150	Manual stretch
		151~255	Automatic stretch
7	Horizontal stretch	0~150	Manual stretch
		151~255	Automatic stretch
8	Rotation	0~180	manual rotation
		181~217	Automatic clockwise rotation
		218~255	Automatic counterclockwise rotation
9	Strobe	0~255	8 step strobe speed (0-255)/30
10	Display	0~69	normal
		70~139	Dot and line
		140~209	section display
		210~255	Dot display
11	color	0~255	Yellow -Red-Green section display
12	Reset	0~255	>200 reset

9. Troubleshooting

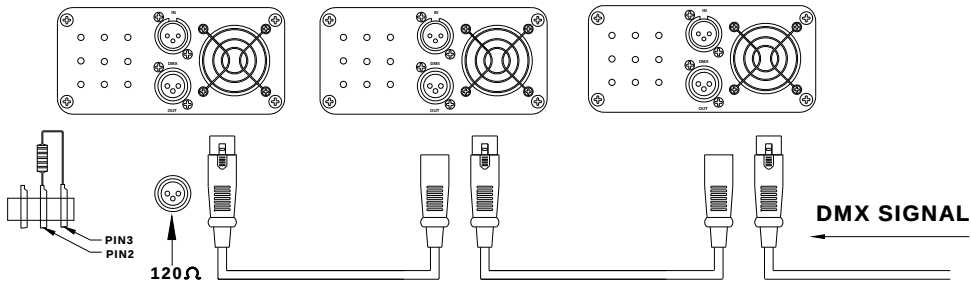
1. In Stand-Alone operation, if the power supply indicator is light up and sound active indicator isn't light up, but the laser is shut off doesn't work, Please check if unit has been set up in slave mode, then set up in master mode.
2. In DMX mode operation, the laser is OFF and the DMX signal indicator is unlighted, please check as below
Make sure to set up the DMX mode, make sure to have a good connection.
3. 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.
4. If the unit is fail, please turn off the unit, and then turn on again after 5 minutes.

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- 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	

12. 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.

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13. Technical Parameter

Item	D-220
Spec	
Laser Light	Red/Green
Laser Power	Red : 100mW+100mW Green : 60mW
Dimension	365*145*70mm
Net Weight	2.3kg
Scan System	High Speed Step Motor Drive and Grating Scan
System Port	DMX512 input and output port
Control Mode	Sound Active, Automaticl,DMX512(12channels)
Demo Effect	More than one hundred of patterns and blended color effect.
Work Environment	10-35℃ Indoor
Power Supply	AC240V 50-60Hz 40W
Work Place	Disco, KTV, Bars, Clubs, Family party etc.