

RGB LASER SERIES

1W RGB LASER

USER GUIDE

Service and repair

The Laser Show equipment has no major serviceable parts. Repair of electronic-components (transistors, IC's) or changing other parts are not allowed by untrained persons. If there is a problem with the Laser Show equipment, your local service engineer will help you with repair or replacement. We recommend shipping the Laser Show equipment to the manufacturer for reparation.

Attachments:

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

WARNINGS

- Visible and invisible laser-light, direct beam can damage the human eye and the eyes of animals. Do not look at any Laser light directly.
- Do not touch the laser aperture with the hand. When cleaning the laser aperture, please use a soft cloth with alcohol or camera lens paper.
- Do not take apart or modify the equipment. Fire or electrical shock may result.
- In the unlikely event that you hear unusual noise, see smoke, feel excessive heat or smell anything unusual, immediately unplug the power source and contact your retailer.
Continued use may result in fires or electrical shock.
- Do not use flammable sprays near this equipment. Also do not spill water, liquids, or flammable liquids on the equipment. If fluids enter this equipment and contact the electrical parts, fires or electrical shock may result. If anything enters the equipment, immediately unplug the power supply and contact your retailer.

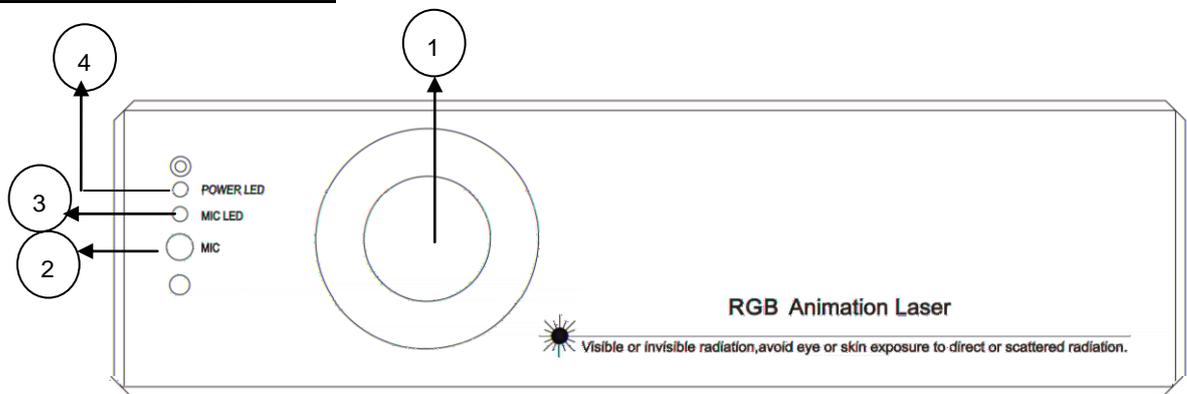
Installation

1. Carefully inspect your Laser Show equipment after you unpack it. If any damage is evident, such as dents or scratches on the covers or broken knobs, etc., immediately notify your carrier and your local sales distributor.
2. Hang up the equipment in a safe place. Ensure there are no barriers in front of the laser aperture.

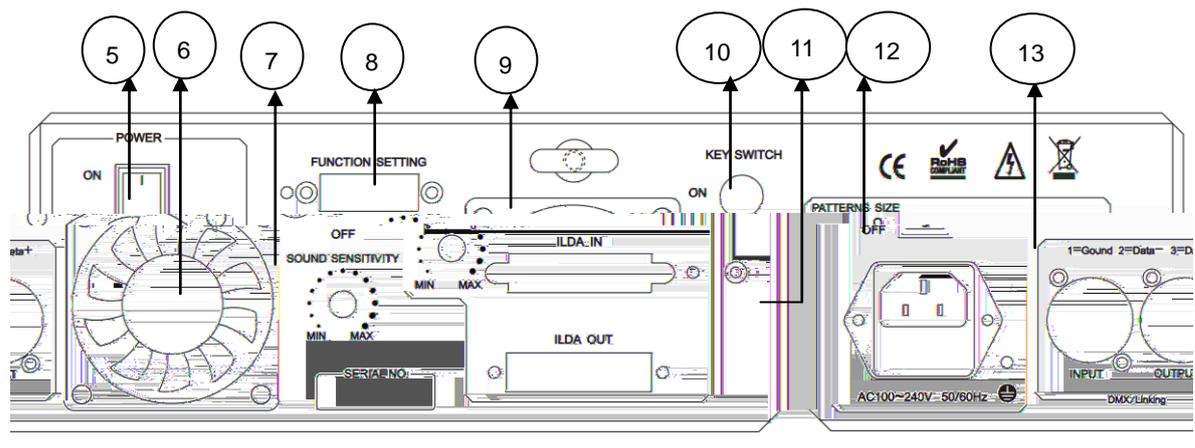
Features of the product:

1. Laser power: 400mW blue laser @ 450nm, 150mW green laser @ 532nm
500mW red laser @ 650nm, mixed 1W RGB.
2. Scanner system: high speed optical scanner
3. Working Modes: Sound Active, Auto run, DMX512 (12 CH), Master/slave mode, ILDA mode.
4. Interface: 3 pins XLR jack for DMX or Maser-Slave linking; DB25 ILDA interface for PC control
5. Input power: AC 110V~240V, 50/60Hz. Rated power: 40W.
6. Packing Size: L*W*H=390*290*190mm; Weight: 6KG

Front and Rear panel view:



1. Laser Aperture 2. Sound active microphone
3. Sound active indicator: Blue 4. Power indicator: Red



5. ON/OFF switch 6. Power Jack 7. DMX or linking jack 8. Dipswitch function setting
9. Cooling Fan 10. Key lock 11. Sound sensitivity knob
12. Pattern Size knob 13. DB25 ILDA interface

Function and Setting

Dip Switch	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Sound-to-light	OFF	OFF								
Auto Beam	ON	OFF								
Auto Animation	ON	ON								
DMX/Slave mode	ON	OFF								ON

As the above chart, DIP switch setting reference as follows:

Stand alone

- (1). Sound active: ALL OFF
- (2). Auto beam run: #1 ON
- (3). Auto animation: #1 and #2 ON

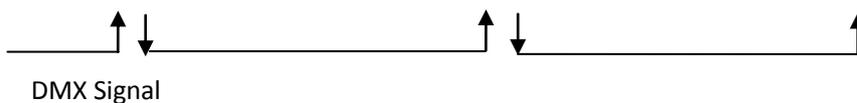
Master and Slave mode

- (1). DMX and DMX Slave & Master: #1 and #10 ON
- (2). Master and slave units all put #1 and #10 ON, only valid under DMX mode.

Universal DMX Operation (DMX mode)

This mode allows you to use universal DMX-512 console to operate.

1. Install the units in a suitable position.
2. Use standard XLR cable to connect your units together via the XLR connector on the rear of the units. For longer cable we suggest a terminator at the last fixture.
3. Assign a DMX address to each the unit using dipswitches.
4. Turn on all units. Use DMX console to control your units.



Instruction for DMX channels

CH1	Mode select	0~49	Sound active mode
		50~99	Auto-beam mode
		100~149	Auto-animation mode
		150~199	Static patterns
		200~255	Dynamic Patterns
CH2	Color select	0~255	0 is LASER OFF, the rest to change colors
CH3	Pattern select	0~255	Selecting patterns
CH4	Y axis moving	0~127	Manual up to down moving
		128~191	Auto down moving (under dynamic pattern)
		192~255	Auto up moving (under dynamic pattern)
CH5	X axis moving	0~127	Manual left to right moving
		128~191	Auto right moving (under dynamic pattern)
		192~255	Auto left moving (under dynamic pattern)
CH6	X axis rolling	0~127	Manual rolling
		128~255	Auto rolling (under dynamic pattern)
CH7	Y axis rolling	0~127	Manual rolling
		128~255	Auto rolling (under dynamic pattern)
CH8	Rotation	0~127	Manual rotation
		128~191	Auto clockwise rotation (under dynamic pattern)
		192~255	Auto counter-clockwise rotation (under dynamic pattern)
CH9	Zooming	0~85	Auto zooming (+)
		86~170	Auto zooming (-)
		171~255	Manual zooming (+/-)
CH10	Pattern Size	0~255	0 is Moderate, 1 is smallest, 255 is biggest
CH11	Display dot	0~255	0 is display dot, 255 is best brightness
CH12	Drawing	0~127	Auto drawing mode 1 (under dynamic pattern)
		128~255	Auto drawing mode 2 (under dynamic pattern)

TROUBLE SHOOTING

1. If the power supply indicator is off and the laser doesn't work, please check the power supply and the input voltage.
2. In Stand-Alone operation, if the power supply indicator is ON and sound active indicator is OFF, but the laser doesn't work.
 - A. Because sound is too small and cannot activate laser running, please increase the music volume or increase audio sensitivity on rear panel.
 - B. Please check if unit has been set up in slave mode, or DMX mode.
3. In Master-Slave operation, slave units don't function, please check as below.
 - A. Make sure there's only one master in the chain, and the others are set in slave mode.
 - B. Make sure to control the units with DMX controller.
 - C. Make sure to use a good quality power cable and XLR connector.
4. In DMX mode operation, the laser is OFF and the DMX signal indicator is unlighted, please check as below
 - A. Make sure DIP switch #1 and #10 are ON.
 - B. Make sure to have a good XLR connection.
5. 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.
6. If the output beam direction above is unusual, please restart the unit.
7. 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 cannot sort out the problem, please contact your dealer or our company for service.