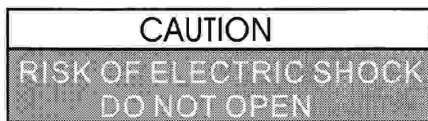


# LASER SHOW SYSTEM

## **User's Manual**

### Operating/Safety instructions

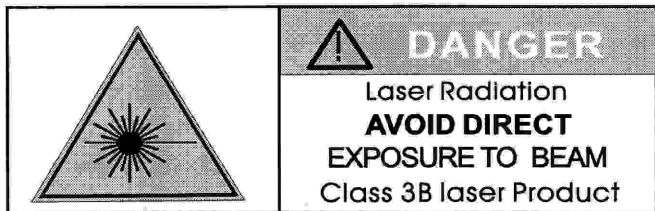
Caution: Please read and understand these instructions before installing or operating this unit. These instructions contain important safety information regarding the use and maintenance of this unit.



**Caution!** Do not remove the cover under any conditions. There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufacturer's warranty. Refer all servicing to qualified personnel.

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

- Do not expose this apparatus to dripping or splashing liquids. Do not place objects filled with water on the apparatus. Do not expose it to rain or moisture, and do not use it near water.
- Clean only with a dry cloth.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6 (15cm) between this device and a wall.
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- Unplug this unit during lightning storms or when unused for long periods of time.
- Always mount this unit in safe and stable manner. Always use proper lighting safety cables when hanging lights and effects overhead.
- Protect the power cord from being walked on or pinched.
- Do not install near any heat sources such as radiators, heat registers, stoves, or any other apparatus that produce heat.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



**CAUTION IMPORTANT!** When installing this projector, make sure that it is mounted in a manner that prevents the audience from looking directly into the beam, and the beam from striking the audience.

This unit contains high power laser devices internally (class 3B). The laser is then split up into multiple beams (class 3R.) It is incorrect to assume that because the laser is split into hundreds of beams, that an individual laser beam is safe for eye exposure. Class 3R beams can cause just as much damage as Class 3B beams.

- Do not open the laser housing, due to the potential exposure to unsafe levels of laser radiation.
- The laser power levels, accessible if the unit is opened, can cause instant blindness, skin burns and fires.
- The light source emitted from this product can potentially cause eye injury if not set up and used properly.
- After setting up, and before public use, test the laser to ensure proper function. Do not use if any defect is detected. Do not use if laser emits only one or two laser beams rather than dozens/hundreds, as this could indicate damage to the diffraction grating optic, and could allow emission of higher laser levels above class 3R.
- Do not point lasers at people or animals.
- Avoid direct eye contact with laser light. Never look into the laser aperture or laser beams.
- Do not point lasers in areas in which people can potentially get exposed, such as uncontrolled balconies, etc.
- Do not point lasers at highly reflective surfaces, such as windows, mirrors and shiny metal. Laser reflections can be hazardous.
- It is a US Federal offense to shine any laser at an aircraft.

- Never point un-terminated laser beams into the sky.
- Do not expose the output optic (aperture) to cleaning chemicals.
- Do not use the laser if the housing is damaged, the housing open, or if the optics appear damaged in any way.
- Never leave this device running unattended.
- Only well trained operators, familiar with the information in this manual, may operate a class 3R laser show.
- The legal requirements for using laser entertainment products vary from country to country. The user is responsible for the legal requirements at the location/country of use.

### Channel Instruction

Channel	Value	Description
CH1	0~64	Close light
	64~127	Auto-play
	128-191	Sound active
CH2	0~255	Choose patterns
CH3	0~63	Choose patterns size
	64~127	From small to large, speed up rate
	128-191	From large to small, speed up rate
	192-255	Large – small – large, speed up rate
CH4	0~127	Choose rotation angle
	128~191	Auto clockwise rotation, speed up
	192~255	Auto anti-clockwise rotation, speed
CH5	0~127	Choose horizontal position
	128~255	Horizontal move, speed up rate
CH6	0~127	Choose Vertical position
	128~255	Vertical move, speed up rate
CH7	0~127	Choose horizontal roll position
	128~255	Horizontal roll, speed up rate
CH8	0~127	Choose Vertical roll position
	128~255	Vertical roll, speed up rate

**Function Instructions**

- When dip switch No.10 is set to the "ON "position, the unit works in auto mode.
- When all dip switches are set to the "OFF" position, the unit works in sound -active mode.
- 3. Auto-play(Master-slave synchronization):when master laser dip switch setting to No.10,the light will run the settled program automatically, meanwhile, it will have DMX512 signal's output ; Just one light could be settled to be master. Setting slave:you should put dip switch No.1 in "on"
- 4.Sound active(Master-slave synchronization):when all dip switches are turned off,the light is in sound-active mode. In this condition, the light will run program along with music,meanwhile, it will have DMX512 signal's output. Just one light could be settled to be master. Setting slave:you should put dip switch No.1 in "on".
- 5.Address code function mode setting

Mode		Binary code (ON)
1	DMX-512 mode、 Slave mode	1-9:Setting address code 10:OFF
2	Sound active mode、 Master mode	1-10:OFF
3	Auto play mode、 Master mode	1-9:OFF 10:ON
4	Square test pattern	9、 10:ON 1、 2、 3、 4、 5、 6、 7、 8:OFF
5	Dot text pattern	8、 9、 10:ON 1、 2、 3、 4、 5、 6、 7:OFF

**Technical Specifications**

- 1.Power Supply: AC 220-240V 50-60HZ
- 2.Rated power: 30W/50W
- 3.Working mode: Sound Active/ Auto-play/DMX512/Master-Slave
- 4. Control signal: DMX512 signal
- 5. DMX channels:8
- 6. Operating temperature: -1° --35°
- 7. Storage temperature: -10° --60°
- 8. Warm - Up time :<15 min
- 9. Modulation: TTL

**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 retransfer the products,you'd better use the original package to shockproof.