

# Laser Show System



LASERLIGHT



## User

## Manual

## SD Card Animation Laser Light

**Please read this manual carefully before use!**

## **Introduction**

Thank you for purchasing this product. To optimize the performance of this product, prior to use, please read these operating instructions carefully to familiarise yourself with the basic operation of this unit. Please keep the manual in safe place for future reference.

This unit has been tested at our factory before being shipped to you, there is no assembly required.

Once after received 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 light
- 1 x Power cable
- 1 x User manual
- 1 x SD card

## **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.

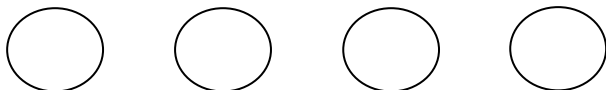
## **Attention**

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

### **Display Function Instruction**

1. Function of each button



MODE                    UP                    DOWN                    ENTER

As what you see above,

After turning the machine on, it will run the same mode which you saved last time. If you press "MODE" button, it will exit to select modes, words of the first line on the LCD will be "mode select", and words of the second line will be the different modes as below:

- program table
- key seek
- audio mode
- auto mode
- dmx mode
- slave mode
- system set
- folder select

Press "MODE" button again, it will jump to be the mode you selected, and then press "ENTER" button to save the mode.

Modes and relevant operation:

1. Program Table: Words of the first line on LCD will be "SD Program show", and words of the second line on LCD will be names of the list which is available, then press "UP" or "DOWN" to select the list.
2. Key seek: Words of the first line on LCD will be "Show File", and words of the second line on LCD will be names of the ILDA files played-currently, then press "UP" or "DOWN" to select the ILDA file.
3. Audio mode: Words of the first line on LCD will be "Audio Show", and words of the second line will be "Aurora Studio", and it will run built-in programs, playing along with sound.
4. Auto mode: Words of the first line on LCD will be "Auto Show", and words of the second line will be "Aurora Studio", and it will run built-in programs.
5. DMX Mode: Words of the first line on LCD will be the DMX address, press "UP" will add 1 value of the address, press "DOWN" will reduce 1 value of the address. Press "UP" or "DOWN" for long time, the value of address will vary fast. When you get your required DMX address, press "ENTER" to save it.
6. Slave mode: Play the same as main machine.
7. System set: Words of the first line on LCD will be "System Set", and words of the second line will be the parameter, then press "UP" or "DOWN" to select your required parameter, then press "ENTER" to save it. " Color Mode Set" color setting mode, "Audio Set" audio setting, "Physic Set".
8. Folder set: Words of the first line on LCD will be " Folder Select", and words of the second line will be name of the folders, press "UP" or "DOWN" to select your required folder, then press "ENTER" to save it.

DMX Channels				
Channel		Value	Operation	
CH1	Selecting modes	0-73	Off	
		74-110	PRG Mode	
		111-147	ILDA Mode	
		148-184	Sound-active Mode	
		185-221	Auto-playing Mode	
		222-255	Manual Mode	
CH2	Selecting graphics/files	0-255	Manual Mode	PRG/ILD Mode
			Vary graphics, every 2 value is for one graphic	Selecting files
CH3	Strobe flash/Selecting files	0-10	No strobe flash	Selecting files
		11-199	Auto-strobe flash	
		200-255	Sound-active	

			strobe/flash
CH4	Move on X-axis	0-125	Manually adjusting the position
		126-185	Auto move left-right in loop
		186-225	Auto move in loop
		226-245	Auto move
		246-255	Move along with sound
CH5	Move on Y-axis	0-125	Manually adjusting the position
		126-185	Auto move up-down in loop
		186-225	Auto move in loop
		226-245	Auto move
		246-255	Move along with sound
CH6	Zoom in/out	0-10	No zoom
		11-100	Manually adjust the size
		101-150	Zoom in
		151-200	Zoom out
		201-255	Zoom in/out in loop
CH7	Rotate around X-axis	0-10	No rotation
		11-110	Manually adjust
		111-255	Rotate automatically
CH8	Rotate around Y-axis	0-10	No rotation
		11-110	Manually adjust
		111-255	Rotate automatically
CH9	Rotate around the center	0	No rotation
		1-180	Manually adjust
		181-217	Auto-rotate in clockwise
		218-255	Auto-rotate in counter-clockwise
CH10	Drawing	0-10	No changing
		10-74	Manually adjust drawing
		75-104	Auto drawing ( + )
		105-144	Auto drawing ( - )
		145-184	Auto drawing in loop
		185-224	Drawing in loop ( + )
		225-255	Drawing in loop ( - )
CH11	Wave	0-9	No wave
		10-199	Adjust speed of the wave
		200-255	Adjust breadth of the wave
CH12	Color		
	RGB	0-16	White
		17-33	Red
		34-50	Green
		51-67	Blue
		68-84	Yellow
		85-101	Purple

		102-118	Cyan
		119-135	White,Red,Green,Blue 4 colors
		136-152	Blue, Yellow,Purple,Cyan, 4 colors
		153-169	White,Red,Green,Blue, Yellow,Purple,Cyan 7 colors
		170-186	White,Red,Green,Blue 4 colors flow
		187-203	Blue, Yellow,Purple,Cyan 4 colors flow
		204-220	Blue, Yellow,Purple,Cyan, 4 colors flow
		221-237	Display different colors according to the breakpoints
		238-255	Changing colors along with sound
	RGY	0-27	White
		28-55	Red
		56-83	Green
		84-111	Yellow
		112-139	Red,Green 2 colors
		140-167	White,Red,Green,Yellow 4 colors
		168-195	Red,Green 2 colors flow
		196-223	White,Red,Green,Yellow 4 colors flow
		224-255	Changing colors along with sound
	CH13	Display	0-63
64-127			Display bright points
128-191			Display sections
192-255			Display points

#### Matters need attention

1.Only FAT32 file is available for this system, if will use new SD card, please format the files to be FAT 32 first.

2.Only short file names are supported by this system, file name (including folder name) must be consist of no more than 8 bites file name and 3 bites extension of the file, file name and extension name must be consist of letter, number, and underline only. File name must be no more than 8 bites.

3.Please make sure the SD card is especially for this machine, do not save other files into the SD card for the laser. It can save 100 folders at the most, and each folder can save 255 files at the most.

4.Program list: You can use "Notebook" to edit the program list, the extension must be ".PRG". The program list is consist of file name, playing speed, playing times, using " , " to separate them. For an example, a program is consist of 3 files file1.ild、file2.ild、file3.ild, the playing speed of file1.ild is 12K, replay 3 times, the playing speed of file2.ild 20K, play once, the playing speed of file3.ild 18K, play 4 times, the content of prg1.prg will be as follows:

File1.ild,12,3

File2.ild,20,1

File3.ild,18,4

When establishing a new folder, need to establish a PRG file, which has same name as the folder name, and put all the files, which need to be played in the folder, into this PRG file. The playing speed which you are editing will be the speed under "Key seek" mode. For an example, establish a file "aurora.prg" in the folder "aurora".

If add new ILDA file, you must add this file into the prg file, so that we can find the file exactly when using keyboard selecting playing file.

5. Only ILDA files is supported by this system, that is the extension of the file must be ILD.

### **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 mains 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

### **Note**

Don't separate laser machine from laser power and repair them by yourself , otherwise no good repair service will be supplied.

### **Technical Specifications**

- 1.Power Supply: 100~240VAC
- 2.Rated Power: 50W
- 3.Working Mode: Sound Active/ Auto-play/DMX512/Master-Slave
- 4.Control Signal: DMX512 Signal
- 5.DMX Control Channels: 13 Channels
- 6.Operating Temperature: -10°--35°
- 7.Storage Temperature: -10°--60°
- 8.Warm-Up Time :<15 min
- 9.Laser Classification: 3b
- 10.Modulation: TTL

### **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!

## **Warranty Card**

This product is made of high-brightness transistor. We will provide 1 year warranty under the condition that user has operated the light normally and lifetime service. We won't provide warranty if the damage is caused by artificial or force majeure event. Cost of fittings should be charged by user if product need maintenance after 1 year .Please cut this warranty card and shipped it along with the product to our factory when applying for warranty.

Product:	Purchasing date:	Code of invoice:
Warranty date: From	To	
User's name:	Add:	
Company:	Tel:	