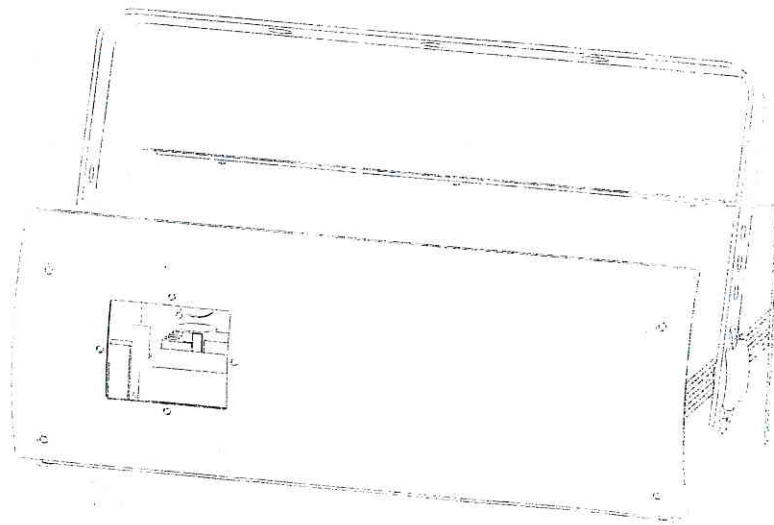


LX 100 RGB



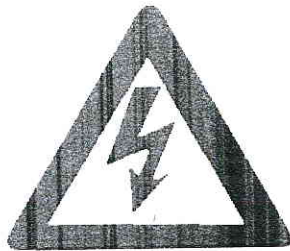
User Manual

Operation instruction:

1. Follow closely the procedure in the specification and do not take apart the laser light at random.
Malfunction shall be maintained by professionals.
2. Keep this machine dry and away from rains, moisture , dust.
3. Install the machine firmly to avoid the strong quiver or shock.
4. Please do not let sundries go inside the machine and avoid unnecessary malfunction
5. Please make sure good ventilation under working condition
6. Before electrifying the machine, please check the plug and socket.
7. Do not stare at the light source to avoid possible harm to eye.
8. Avoid frequent on/off and overtime work which are harmful to the life-span of laser diode; please turn off the machine for 15minutes after one hour' working time.
9. Do not touch the machine when your hands are wet and pull the wire strongly
10. Limit the scanning speed according to technique parameter under computer control
11. The distance between light and target goods should not be less than one meter.
12. Please contact the distributor directly when the light intensity of diode goes down significantly or other malfunctions.
13. Please pack carefully before transportation and it's better to use original packing

Warning:

1. Make sure the power is off before installation or maintenance
2. Do not stare at the light source to avoid possible harm to eye.
3. Do not put any inflammable material within 0.5metre around machine
4. Voltage range:220/110±10% V. Protect laser with regulator when beyond the range.



Warning
High voltage and danger!
No dismantle and staring!



Installment:

1. Ensure the electrical voltage accords with voltage labeled on laser.
2. Install under professionals and fix laser strongly to adjust the emission angle.
3. Keep laser away from combustibile 0.5meter and 15CM above with wall.
4. Keep working place ventilate and without impediment.
5. Please hang on the laser with 10times endurance to laser's weight.
6. Connect the grounding well for safety.

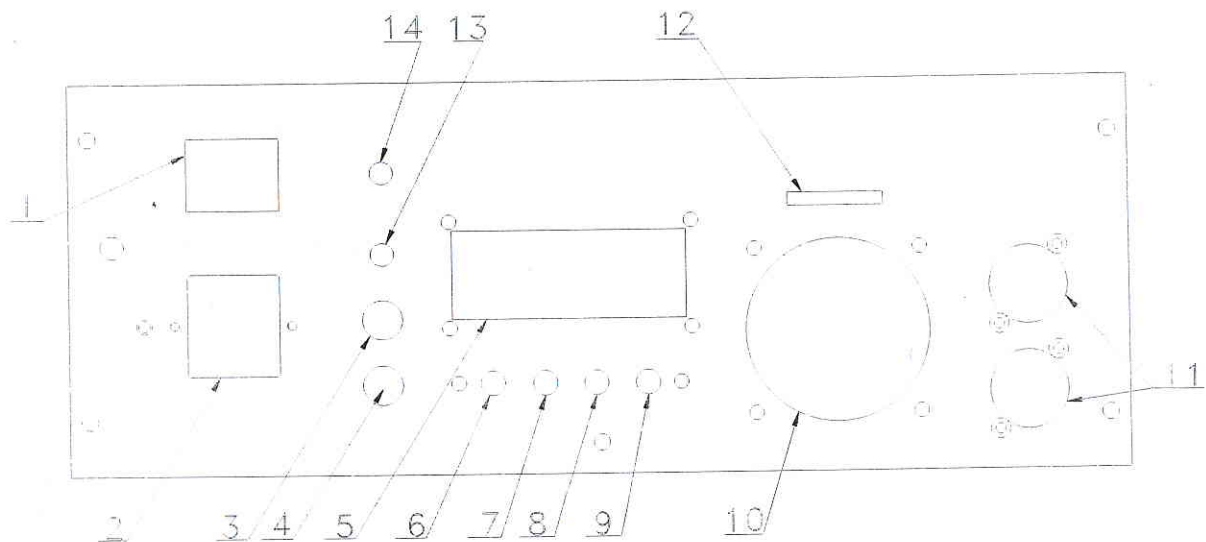
Maintenance:

1. Maintenance should forward periodically, 20days for reference.
2. Clean the dustproof glass with alcohol cotton
3. No wet cloth or chemistry for cleaning
4. Clean the small fans for better cooling.

Technique parameter:

- 1、 power supply:Ac110-240V
- 2、 Frequency:50/60HZ
- 3、 Laser power: red 650nm,500mw ; green 532nm,150mw ; blue 473nm,400mw
- 4、 Control mode: PC/auto /sound activate / DMX
- 5、 Scanning speed: 20K
- 6、 Environment temperature: 0°C~±30°C
- 7、 Scanning angle: 0°~±30°
- 8、 Cooling: air cooling
- 9、 Channels: 13
- 10、 Power:300W
- 11、 Dimension: 360*270*260mm
- 12、 weight:5Kg

Back panel specification:

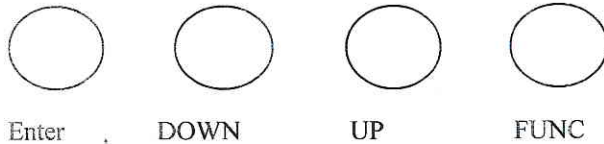


1	Power switch
2	AC100V-240V, 50-60HZ input power socket, built-in fuse
3	MIC
4	Security key switch (null)
5	Screen
6	Enter
7	Up
8	Down
9	Function
10	Electric fan
11	DMX out - in
12	SD Card

13	Sound sensitivity
14	Pattern Size

SD card laser control system manual

1. Button behind the machine:



As shown above,

MODE: Change the control mode of the laser machine.

UP/DOWN: Change the working file when the laser machine is on PRG and ILD mode and adjust the cadence when the laser machine is on sound control mode.

DIR : Change the working file when the laser machine is on PRG and ILD mode. On any mode, a long press with more than one second on the button is to save current mode, including mode, working folder, working file and cadence, etc. The laser machine will work under the saved mode next time when it starts.

2. Mode

Prg Mode: Play list mode to play PRG file. The second line shows the currently playing file list. Use 'UP' and 'Down' to change the playing list. Press DIR to change the working folder.

ILDA Mode: ILDA play mode. Play the ILDA file (DAT is ILD, regardless of capital and case) in continuous loop. The second line shows the currently playing ILDA file name. Use 'UP' and 'Down' to change the ILDA file. Press DIR to change the currently working folder.

Audio Mode: Sound control mode. Play the sound control programme. Use 'UP' and 'Down' to change the cadence.

Auto Mode: Auto play.

Dmx Mode: DMX mode. The first line shows the current mode and DMX number. The second line shows the receiver status of the DMX.

3. DMX Channel description:

Description			
Channe;	No	Content	
1	MODE	0-73	CLOSED
		74-110	PRG MODE
		111-147	ILD MODE
		148-184	SOUND
		185-221	AUTO

		222-255	MANUAL
2	PATTERNS/FOLDER OPTION	0-255	MANUAL MODE
			PRG/ILD mode
			PATTERNS ADJUST
3	STROBE/FILE ADJUST	0-10	No strobe
		11-199	Auto strobe
		200-255	Sound strobe
			Play list adjust
4	RIGHT TO LEFT	0-125	Manual control
		126-185	Auto, left to right loop play back
		186-225	Auto,jump left to right loop play back
		226-245	Auto,irregular jump
		246-255	Sound,irregular jump
5	UP AND DOWN	0-125	Manual control
		126-185	Auto, up and down loop play back
		186-225	Auto,jump up and down loop play back
		226-245	Auto, irregular jump
		246-255	Sound,irregular jump
6	ZOOM	0-10	No zoom
		11-100	Manual zoom
		101-150	Zoom+
		151-200	Zoom-
		201-255	Zoom+/- loop play back
7	ROTATE AROUND X AXIS	0-10	No rotation
		11-110	Manual
		111-255	Auto
8	ROTATE AROUND Y AXIS	0-10	No rotation
		11-110	Manual
		111-255	Auto
9	ROTATE AROUND THE CNETER POINT	0	No rotation
		1-180	Manual
		181-217	Auto clock wise
		218-255	Auto anticlock wise
10	STEP DRAW	0-10	No step draw
		10-74	Manual
		75-104	Step draw +
		105-144	Step draw -
		145-184	Effect 1
		185-224	Effect 2
		225-255	Effect 3
11	WAVE	0-9	No wave
		10-199	Wave peed adjust
		200-255	Wave extent adjust
	COLOR		
		0-16	White
		17-33	Red
		34-50	Green
		51-67	Blue
		68-84	Yellow
		85-101	Purple
		102-118	Cyan

12	RGB	119-135	Four colors in sections (white, red, green, blue)
		136-152	Four colors in sections (blue, yellow, purple, cyan)
		153-169	Seven colors in sections (white, red, green, blue, yellow, purple, cyan)
		170-186	Four colors flow (white, red, green, blue)
		187-203	Four colors flow (blue, yellow, purple, cyan)
		204-220	Four colors flow (blue, yellow, purple, cyan)
		221-237	Section in display by breakpoint
		238-255	Sound control to change color
		RGY	0-27
	28-55		Red
	56-83		Green
	84-111		Yellow
	112-139		Red&green double colors in section
	140-167		Four colors in sections (white, red, green, yellow)
	168-195		Red&green double colors flow
	196-223		Four colors flow (white, red, green, yellow)
	224-255		Soubd control to change color
13	SHOW MODE	0-63	Normal effect
		64-127	High bright dot show
		128-191	Show in section
		192-255	Dot show

4.Mark

- 1.This system only supports FAT32 file. Pls format the file to FAT32 if you use new SD card.
- 2.This system only supports file with short name (including folder name) with no more than 8 words and 3 DAT.The file name and DAT can only be composed of number, word, or underline. The file name should not be less than 8 words, exclude Chinese, or the file can not be read.
- 3.Do not put other uncorrelated file on the SD card. There should be no more than 20 folders. Each folder should contain no more than 256 ILDA files and no more than 10 PRG file.
4. PRG programme list: user could use TXT to edit the programme list and its DAT is PRG. Programme list is composed of file name, scanner speed and playing times and Ishow recognition code (i), which are departed by ‘,’. Edit one programme in one line. For example, a programme includes 3 files named file1.ild、 file2.ild、 file3.ild. Fild1.ild requires scanner speed of 12K and 3 times replay; file2.ild requires scanner speed of 20K and 1 time play and this file is made by Ishow software; file3.ild requires scanner speed of 18K with 4 times replay, thus, prg1.prg content is as below:

File1.ild,12,3

File2.ild,20,1,i

File3.ild,18,4

When making a new folder, you should make a PRG file with the same name under this folder and put all files to be played into this PRG file. Now the scanner speed should be same to that of the ILDA Mode. For example, under the folder named aurora, make a file named aurora.prg. After the ILDA files added, you should put the files into PRG list, so that we can find the file accurately when on ILDA Mode and play the file with the scanner speed you need.

Troubleshooting

Trouble Appearance	Trouble Solution
IF it doesn't light up and the laser doesn't work.	Please check the power supply, fuse and the input voltage.
Graphics projection excursion or some parts of graphics can not project out	Adjust the scanner to right position
no light projects out or the laser get darker	Clean the mirror
Under sound control mode, no light projects out or laser is not sensitive to music when the laser stand-Alone.	Increase the sound sensitivity of laser by adjusting back sensitivity button or enhance the sound volume.
In DMX mode, the laser is off and the DMX signal indicator is unlighted	Make sure to connect the DMX signal and check the connection of control cable
In DMX mode, the laser graphics can't be controlled and DMX signal indicator is flashing.	Please check the DMX channel and the address code setting on the laser.
After trying the above solution you still have a problem, please contact your dealer or our company for service.	