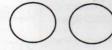# User Manual

SD Laser Light system

一. Key instruction：

Mode   UP   DOWN

As picture showed above:

MODE key：Press one to change another mode.

UP、DOWN key: Under　PRG and ILDA mode, to change the working file when press shortly, to change the folder when press long time.Under the Sound mode, change the sensitivity.

Working mode:

Prg Mode :Play list mode, play PRG file and the second line showed the play list name now.Press shortly "UP" and "Down" to change the playing list, press long time to change the working folder.

ILDA Mode: Recycle playing the single ILDA file(extension ILD file).Press shortly "UP"and "DOWN0" to change ILDA file, press long time to change the working folder.

Audio Mode: Playing insert sound mode program and press "UP" and "Down" to change the sensitivity.

Auto Mode: Playing insert program。

Dmx Mod: Press "UP" and "DOWN" to change DMX address.

Phase position set：Press "UP" and "DOWN" to change phase position.

Remote function instruction:

LASER: Turn on/off. When the light is on, press the "laser" the light will be off, press again to be on, to be recycle.

REST:No mater what kinds of situation, press "reset" return to system beginning situation, to be ILD mode. SD card's first folder's file is RGB color, phase position X+ Y+

ILD:Recycle single ILDA files（extension name ILDA file）, press "UP" and "DOWN" to change ILDA file.Press folder key to change the working folder.

PRG: Play PRG file, press "UP" and "DOWN" to change the playing list, press folder to change the working folder.

Auto:Playing auto program

Music:Playing insert program，press "UP" and "Down" to change the sensitivity。

DMX："UP" and "DOWN" to change DMX address.

Slave:Controlled by master system.

Signal: No function for extension.

Color:Press , color recycle from single color , RG and RGB. Press one time to change one color.If color can't match the light, it can't be work.

Folder:Under ILD AND PRG mode, change one folder after pressing one time.

UP\DOWN:under ILD,PRG mode change the file，under sound mode, change the sensitivity , under DMX mode, change the DMX address.

DMX Address				
Address		**Value**	**Instruction**	
1	Mode No.	0-9	Turn off	
		10-49	PRG mode	
		50-99	ILD mode	
		100-149	Sound mode	
		150-199	Auto Mode	
		200-255	Manual operation	
2	Image/file	0-255	Manual operation	PRG/ILD mode
			Image change , 3 values to be one image	File available
3	Strobe/File	0-10	No	
		11-199	Auto	File
		200-255	Sound	
4	X axis move	0-125	Manual operation change position	
		126-185	Recycle move up and down automatically	
		186-225	Recycle jump up and down automatically	
		226-245	Jump no rhythm automatically	
		246-255	Jump no rhythm under sound	
5	Y axis move	0-125	Manual operation change position	
		126-185	Recycle move up and down automatically	
		186-225	Recycle jump up and down automatically	
		226-245	Jump no rhythm automatically	
		246-255	Jump no rhythm under sound	
6	Zoom	0-10	No	
		11-100	Change size manual operation	
		101-150	Large size	
		151-200	Small size	
		201-255	Recycle zoom	
7	X axis rotate	0-10	No	
		11-110	Manual operation	
		111-255	Auto	
8	Y axis rotate	0-10	No	
		11-110	Manual operation	
		111-255	Auto	
9	Centre rotate	0	No	
		1-180	Manual operation	
		181-217	Clockwise rotation	
		218-255	Anticlockwise rotation	
10	Gradual draw	0-10	No	
		10-74	Manual gradual draw	
		75-104	Auto gradual draw (Increase)	
		105-144	Auto gradual draw (Plus)	
		145-184	Auto recycle gradual draw	
		185-224	Begin and end recycle gradual draw(Increase)	
		225-255	Begin and end recycle gradual draw(Plus)	
11	X axis wave	0-9	No	
		10-69	Little	
		70-129	Middle	
		130-189	Large	
		190-255	Max Large	
12	Y axis wave	0-9	No	
		10-69	Little	
		70-129	Middle	
		130-189	Large	
		190-255	Max Large	
13	Display mode	0-63	Normal	
		64-127	Lighting	

		Value	Description
		128-191	Phase
		192-255	Dot
	Color		
14	RGB	0-16	white
		17-33	red
		34-50	green
		51-67	blue
		68-84	yellow
		85-101	purple
		102-118	cyan
		119-135	W R G B 4 colors phase
		136-152	B Y P C 4 colors phase
		153-169	W R G B Y P C 7 color phase
		170-186	W R G B 4 colors flow
		187-203	B Y P C 4 colors flow
		204-220	B Y P C 4 colors flow
		221-237	According the dot phase display
		238-255	Sound changing color
	RGY	0-27	White
		28-55	Red
		56-83	Green
		84-111	Yellow
		112-139	R G double color phase
		140-167	W R G Y 4 colors phase
		168-195	R G double flow
		196-223	W R G Y 4 colors flow
		224-255	Sound change color
15	Grating	0-51	No
		52-102	Starry grating
		103-153	Uni-dimensional
		154-204	3D plane
		205-255	3D line

三、Attention

1. This system is only suitable for short file name, file name(folder name included) no more than 8 file name and 3 extension name. They are combined by "letter" "Number" and "under line". The file name is no more than 8 , no Chinese symbol that can't be tell.

2.SD card is offered by factory. Don't mix other file to be insert. The large RAM is 100 folder and no more than 255 files for each folder.

Grating code is 0-4, that is "0" no grating ; "1" starry grating ; "2" Uni-dimensional ; "3" 3D plane; 4.3D line. If you don't write grating code,   to be no grating.

Each one for one program. Example : it is consist file1.ild , file2.ild, file3 ild. File.ild play scanner speed is 12K recycle 3 times, file2.ild scanner speed is 20k playing one time, file3.ild scanner speed is

18K, playing 4 times, so the prg1.prg as below:

File1.ild,12,3

File2.ild,20,1

File3.ild,18,4

When setting a folder, you need to build a same name PRG file under this folder, insert the need files insert to PRG folder. Example , under   aurora folder, to build a aurora.prg file.

After adding a new ILDA file, need to add the file into prg folder, in order you can find the file exactly and play the speed as you want.

The system support ILDA text file, the extension file name is ILD.