

SD LASER SHOW SYSTEM

MODEL Cronus

User Guide

Thank you for purchasing this product, Please read user guide for safety and operations before using. Keep this manual for future reference. This product can create perfect laser programs and effects since it has passed a series of strict test before delivery.

Once after received this product, please take and put carefully. And check cautiously that whether the product was damaged or not during the transportation.

Technical Specifications

.Power Supply: AC 100-240V()

Laser: Red 240mw Green 120mw

.Rated Power: 50W

.Working Mode: Sound Active/ Auto-play/DMX512/Master-Slave

.Control Signal: DMX512 Signal

.DMX Control Channels: 10 Channels

.Operating Temperature: -1° -- 35°

.Storage Temperature: -10° -- 60°

.Warm -Up Time: <15min

.Laser Classification: 3b

0. Modulation: TTL

Checking Parts

Please check if the following parts are included:

x Laser Light

x Power cable

x User manual

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.

Attention

.Must operate according to the user manual. Don't separate the light personally. Call the technician when the machine breaks down.

.Please do not see the laser beam directly to avoid any damage.

.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.

.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.

.Set the light immobility and try to avoid strong shake or hit.

.Prevent dust into the equipment to avoid problems.

.Please keep that there's no other equipment or decorating materials obstructed the exhaust fan and the vent-pipe when the equipment was working.

.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 10M 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. To use the original package when transport again and to avoid shake.

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.

SD Card Laser Light Control System

I. First: Key Operate



As the figures shown:

Mode is Menu Key, ENTER is ensure key, UP's flip, DOWN is next. After opening, Machine state is saved when the last shutdown state, This time, Press MODE key to exit the mode selection menu, LCD.

First line display "mode select", The second line display Operate Mode:
Program Table

Key Seek

Audio Mode DMX Mode

Auto Mode Slave Mode

System set can set color mode, Audio sensor effect, X/Y phase

System Set working file set

Repeat press "MODE" key jump to the working mode you want, press "ENTER" key ensure.

Mode State and operate

1. Program Table: LCD first line display "SD Program Show", Second line display current list of player names, that time, press "UP" and "DOWN" select play list.
2. Key Seek: LCD first line display "Show File", Second line display current play ILDA file document name, that time, press "UP" and "DOWN" select ILDA file.
3. Audio Mode: LCD first line display "Audio show", Second line display System Development Company Name "Aurora Studio", that time, play card interior integrated program, the rhythm and the sound effect changed by the environment
4. Auto Mode: LCD first line display "Auto Show", Second line display System Development Company Name "Aurora Studio", that time, play card interior Integrated program.
5. DMX Mode: LCD first line display current DMX address, press "UP" address Add 1, press "Down" address Subtract 1, continuously press "UP" or "DOWN" Will fast continuously change. When adjust to required "DMX" address, press "ENTER" ensure.
6. Slave Mode: At this time play state according Master mode change to change
7. System set: LCD first line display "System Set", Second line display setting parameters, that time continuously press "UP" or "DOWN" select required setting parameters, then press "ENTER" ensure, "Color Mode Set" color mode setting, "Audio Set" audio effect setting, "Phasic Set" phase setting.
8. Folder set: LCD first line display "Folder Select", Second line display folder name, press "UP" or "Down" to required folder, press "ENTER" ensure.

II. Second: Channel Description

Channel Description			
	Channel	Value	Control Description
1	Mode Select	0-73	Light Shut Off
		74-110	PRG Mode
		111-147	ILD Mode
		148-184	Audio
		185-221	Auto
		222-255	Manually Mode
2	Graphic / Folder Select	0-255	Manually Mode PRG/ILD Mode
			Graphic change, per 2 value is one graphic Folder select

3	Strobe / Folder Select	0-10	Without Strobe	Play file select
		11-199	Auto Strobe	
		200-255	Audio Strobe	
4	X-axis direction moving	0-125	Manually adjust location	
		126-185	Auto left and right cycle move	
		186-225	Auto jump left and right cycle move	
		226-245	Auto without rule jump	
		246-255	Audio without rule jump	
5	Y-axis direction moving	0-125	Manually adjust location	
		126-185	Auto up and down cycle move	
		186-225	Auto jump up and down cycle move	
		226-245	Auto without rule jump	
		246-255	Audio without rule jump	
6	Zooming	0-10	Without zooming	
		11-100	Manually adjust the size	
		101-15	Enlarge	
		151-200	Shrink	
		201-255	Cycle Shrink	
7	Around X-axis rotating	0-10	Without rotating	
		11-110	Manually adjust	
		111-255	Auto rotating	
8	Around Y-axis rotating	0-10	Without rotating	
		11-110	Manually adjust	
		111-255	Auto rotating	
9	Around Center rotating	0	Without rotating	
		1-180	Manually adjust	
		181-217	Auto clockwise rotating	
		218-255	Auto counterclockwise rotating	
10	Drawing	0-10	Without change	
		10-74	Manually adjust rotating	
		75-104	Auto drawing (Add)	
		105-144	Auto drawing (Subtract)	

		225-255	Auto end to end drawing (Subtract)
11	Waving	0-9	Without waving
		10-199	Waving speed can adjust
		200-255	Waving width can adjust
	Color		
12	RGB	0-16	White
		17-33	Red
		34-50	Green
		51-67	Blue
		68-84	Yellow
		85-101	Violet
		102-118	Cyan
		119-135	White, red, green, blue four color partition
		136-152	Blue, yellow, violet, cyan four color partition
		153-169	White, red, green, blue, yellow, violet, cyan, seven color partition
		170-186	White, red, green, blue four color flow
		187-203	Blue, yellow, violet, cyan four color flow
		204-220	Blue, yellow, violet, cyan four color flow
		221-237	According breakpoint partition display
	238-255	Audio discolor	
	RGY	0-27	White
		28-55	Red
		56-83	Green
		84-111	Yellow
		112-139	Red, green double color partition
		140-167	White, red, green, blue four color partition
		168-195	Red, green double color flow
		196-223	White, red, green, blue four color flow
224-255		Audio discolor	
13	Display Mode	0-63	Normal display
		64-127	Highlights display
		128-191	Partition display
		192-255	Point display

III. Third: Attention

1.This system only support FAT32 file system, if use a new SD Card, first formatted as FAT32 format.

2.This system only support short file name, file name(including folder name) maximum of 8-bit file name and 3-bit extend name, file name and extend name composed by letters、 numbers and underscores. File name can't surpass 8-bit, without Chinese characters, if not system can't identification.

3.SD Card need profile card private, don't mixed store with other file, maximum can support 100 folder, every folder maximum can store 255 file.

4.Program list: User can use Text editor (Notepad) edit program list, its extend name is .PRG. Program list composed by play file name、 play speed、 play time, the middle with “ , ” separated. Every line edits one program item. For example one program composed by three files file1.ild、 file2.ild、 file3.ild., File1.ild pay speed is 12K, repeat play three times, file2.ild play speed is 20K, play one time, file3.ild play speed is 18K, play four times.

So prg1.prg content as follows:

File1.ild,12,3

File2.ild,20,1

File3.ild,18,4

When create one folder, needto create a folder under the file folder with the same name as thePRG file, and put the folder in all the required documents to the PRG file editing, at this time edited play speed is the play speed of “Key seek” mode, For example,blow aurora folder create one aurora.prg file,.

After add ILDA file, needadd this file to prg file, in order to correctly find this file when we select play file on the keyboard, and play the file with you required speed.

5. This system support file is standard ILDA format file, that is meaning extend name is ILD file.

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 main tenar ce 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.

Declaration

This device has left our premises in absolutely perfect condition In order to maintan this condition and to ensure a safe operation,it is absolutely necessary forthe 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!