General Instructions

Unpacking:

Thank you for purchasing this product. Please read user guide for safety and operations information before using the product. Keep this manual for future reference. This product can create perfect light programs and effects since it has passed a series of strictly tests before delivery. Please check the attachments listed on the page after opening the carton. Immediately upon receiving a fixture, carefully unpack the box. Check the box contents to ensure that all parts are present and that they are in good condition. If any part appears damaged from shipping, or if the box shows signs of mishandling, notify the shipper immediately. In addition, retain the box and all the packing material for inspection. In any event, save the carton and all packing material because, in case that you have to return the fixture to the factory, you will have to do so in its original box, with its original packing.

What is included: 1* Light, 1*Power Cable, 1*User Guide, 1*TF card

Safety Notice: Please read the following notes carefully because they include important safety information about the installation, usage and maintenance of this product. It is important to read all these notes before starting to work with this product.

Laser Expected Lifespan

Laser gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, Laser exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color Laser are used at their fullest intensity, life of the Laser is significantly reduced. It is estimated that a viable lifespan of 5,000 to 10,000 hours will be achieved under normal operational conditions. If improving on this lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

Lasers can be hazardous and have unique safety considerations. Permanent eye injury and blindness is possible if lasers are used incorrectly. Pay close attention to each safety REMARK and WARNING statement in the user manual. Read all instructions careful.

Laser Safety Warnings

Potential laser injury hazard exists with this product! Read these Instructions carefully, which include important information about installation, safe use and service!

Caution:

*Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser radiation.

*This laser product can potentially cause instant eye injury or blindness if laser light directly strikes the eyes.

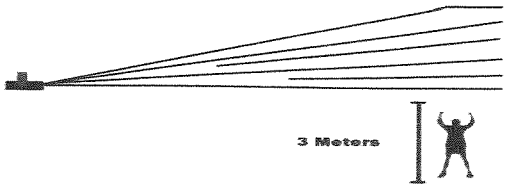
*It is illegal and dangerous to shine this laser into audience areas, where the audience or other personnel could get direct laser beams or bright reflections into their eyes.

*It is a US Federal offense to shine any laser at aircraft.

NON-INTERLOCKED HOUSING WARNING

*This unit contains high power laser devices internally. Do not open the laser housing, due to 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.

Installation



AVOID EYE DIRECT CONTACT!

*Laser effects projected 3 meters (9.8 ft) above the audience are eye safe. A survey should be taken to assess the likelihood of any reflective surfaces (such as high windows, chrome bars etc) bouncing stray beams back down into the audience.

*Using a fastening clamps on the light and tight to the ceiling in a strong hook..

*Make sure its correct power output and plug the power cable to the wall socket.

* Power must be in earth! Power on the light.

* Do not shoot the beams to the audience!

*Do not look direct into the laser aperture once the laser light is ON. Please pay attention to the Laser Danger Warning Label!

Caution

After setting up, and before public use, test 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 3B.

Do not point lasers at people or animals. 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. Even laser reflections can be hazardous.

Never point a laser at aircraft, this is a federal offense.

Never point non-terminated laser beams into the sky.

Do not expose the output optic (aperture) to cleaning chemicals.

Do not use laser if the laser appears to be emitting only one or two beams.

Do not use the laser if the housing is damaged, the housing is open, or if the optics appear damaged in any way.

Never open the laser housing. The high laser power levels inside of the protective housing can start fires, burn skin and will cause instant eye injury.

Never leave this device running unattended.

**During Assembly, operation, maintenance, please pay special attention to avoid possible exposure to laser and collateral radiation in excess of the accessible emission limits.*

**Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.*

**Protective eye wear is typically required where direct viewing of a Class 3B laser beam may occur.*

The projector must be installed in a location with adequate distance.

Cleaning

Fixture Cleaning: Due to fog residue, smoke, and dust cleaning the internal and external lenses should be carried out periodically to optimize light output.

1.Use normal glass cleaner and a soft cloth to wipe down the out- side casing.

2.Clean the external optics with glass cleaner and a soft cloth every 20 days.

3.Always be sure to dry all parts completely before plugging the unit back in. Cleaning frequency depends on the environment in which the fixture operates (I.e. smoke, fog residue, dust, dew). In heavy use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp beam output.

Technical Specification

Features:

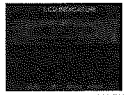
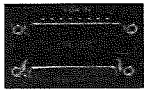
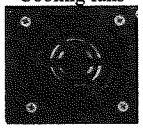
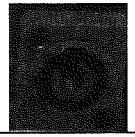
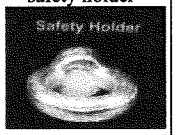
◆Feature: Animation laser with high-speed optical scanner to create animated graphics, 256 beam show and graphics show patterns, and with the function of unique blanking, frequently flashing, rotating, movement, billowing, zoom (+/-), drawing and speed etc. SD Card supports ".ild" format picture which shows customize animations. All functions are shown through LCD indicator. X and Y patterns can be adjusted separately. The scanning speed of the animations from SD card can be set manually. Animations in SD card can be selected and displayed permanently or replayed times.

◆Scanner: High-speed optical scanner, big angle scanning (0 to 30°)

◆Play Mode (1) Laser: Sound Active, AUTO-Beam, AUTO-Animation, DMX512 (CH17), Master/ Slave (2) SD card

◆Power Supply: Bi-Voltage 110V to 220V-250V, 50/60HZ, 30W

Fixture Appearance

Sound Active Microphone 	SD card slot 	LCD Indicator for functions 	ILDA Interface 
DMX or Linking Jack 	Cooling fans 	Power Coin 110V-240V AC 	safety holder 

SD Card Function

1.This program only support SD card with FAT32 format. If you buy new SD card, please reformat to FAT32 first.

How to format the new SD card:

1. Plug your new SD card onto your computer
2. Click the SD card file on the right mouse and select "Format'
3. Select "FAT32" and start to format the SD card

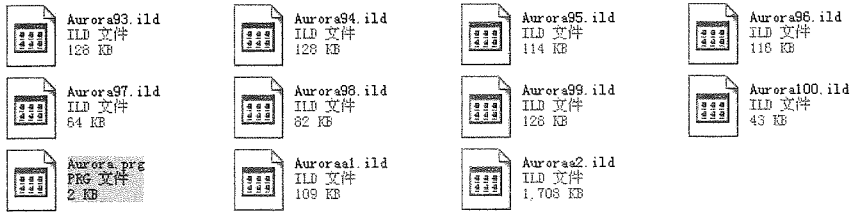
2. File name is suggested to have less than 8 letters and 3 letters for the format name.

3. It is suggested to use the SD card only for the laser light. Please do not put other documents into the SD card. This SD card can be put 100 folders and each folder can be put 256 files.

4. After you get our SD card, please plug it onto your computer. Then you will see 3 folders:

 Aurora  Aurora1  new

Open the first folder, you will see 102 ".ild" files and 1 ".prg" file



Double click the "Aurora.prg" file and select "Microsoft Office Word" to open this .prg file. You will see all the 102 files' name are listed on this "Aurora.prg" file. Every file is equal to one animation displayed in this laser.

```
Aurora97.ild, 10, 3
Aurora98.ild, 10, 2
Aurora99.ild, 10, 2
Auroraa1.ild, 10, 3
Auroraa2.ild, 5, 1
```

What does it mean on this file name? e.g.

Aurora3.ild,18,1

1. "Aurora3.ild" means the file name of your ilda animation
2. "18" means the displaying scanning speed
3. "1" means the displaying time: 1 time

5. How to make your own folder with your own animations?

(1). Use your own laser software to create ".ild" files. Your laser software must support export ".ild" file.

(2). Use our free laser software to create ".ild" files. Please send email if you need our free laser software.

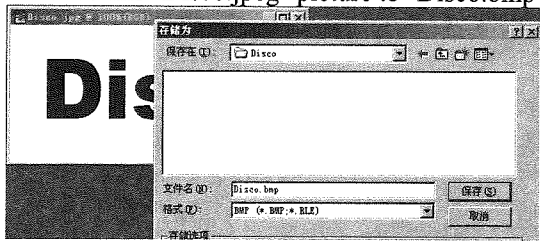
Steps on how to create your own animations with our free laser software:

A. Install the software onto your computer

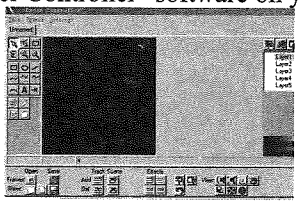
B. If you have a picture, such as "Disco" on your computer

C. Open the Photoshop on your desk, and open the "Disco.jpeg" picture

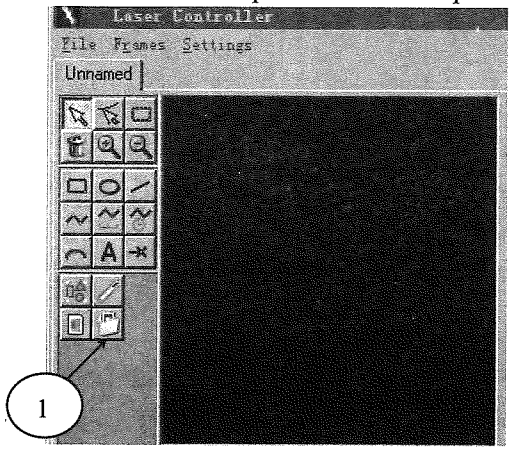
D. Save this "Disco.jpeg" picture to "Disco.bmp"



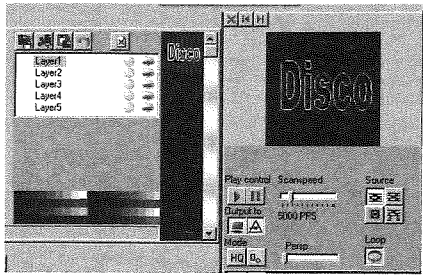
E. Open the "Laser Controller" software on your desk



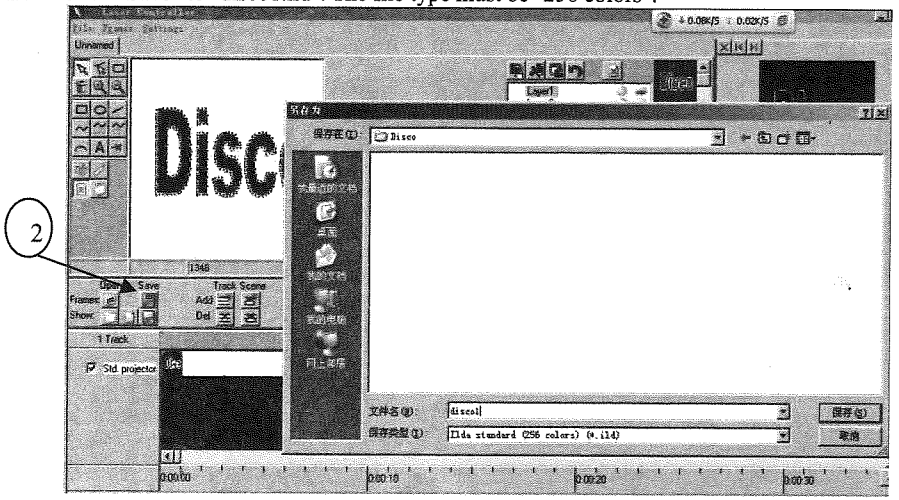
F. Click the "1" to open the "Disco.bmp"



G. Click the right mouse on the "Disco" and select "Trace Background"



H. Click "Save" to "disco1.ild". The file type must be "256 colors"!



I. Please make other ".ild" files according to the "A-H" steps, such as "disco2.ild", "disco3.ild", etc.

(4). Copy the folder "New" from SD card onto your desk.Rename this folder to "Disco" . Copy all the ".ild" files onto this folder, such as "disco1.ild", disco2.ild", "disco3.ild", etc.

new

(5) . Rename the "new.prg" file name to "disco.prg". And open the "Disco.prg" file
Important: Prg name must be the same as folder name!

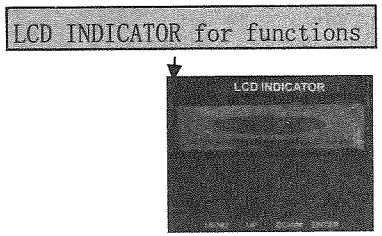
(6). rename the old ".ild" names to new names "disco1", "disco2", "disco3"..., and save this prg file.

```
Disco1.ILD, 20, 1
Disco2.ILD, 20, 30
Disco3.ILD, 20, 1
```

(7). Copy this folder "Disco" onto the SD card.

6. How to operate the laser to display animations?

At the rear panel, you can see:



1, Prg Mode: playing list mode

Playing list mode: play PRG file. The second line is displaying the current list name, press [UP]or [DOWN] to change the list, press [DIR] to change the current working folder.

2, ILDA Mode: ILDA files list mode

Playing list mode: play PRG file. The second line is displaying the current list name, press [UP]or [DOWN] to change the list, press [DIR] to change the current working folder.

3, Audio Mode: Sound activate mode

Play the built-in list in Audio mode, press [UP] or [DOWN] to change the sensitivity of the sound.

4, Auto Mod: Automatically play

Play the built-in lists automatically.

5, DMX Mode: DMX512 controller mode

The first line is displaying the current working mode and DMX address. The second line is displaying the DMX512 signal. Press [UP] or [DOWN] to change the DMX address.

6, Slave Mode: linking Slave mode

[SLAVE] light is controlled by the [MASTER] light.

7, Phasic Set, press [UP] or [DOWN] to change the Phasic position.

8, speed set: Scanner speed setting, press [UP] or [DOWN] to change the patterns output speed.

9, size set: pattern size setting, press [UP] or [DOWN] to change the pattern size.

7. DMX control:

DMX Control Parameter Chart

Channel	Function	Value	Description		
CH1	Model Select	0-49	Auto mode		
		50-99	Audio(Sound Active) mode		
		100-149	PRG mode		
		150-199	ILD mode		
		200-255	Manual mode		
CH2	Pattern/Folder Select	0-255	Manual mode	PRG/ILD mode	
			Pattern select,every 3 value one pattern	File select	
CH3	Flashing/File Select	0-10	No strobe	Play file select	
		11-199	Auto strobe		
		200-255	Audio strobe		
CH4	RGB Models Color Select	0-5	Laser off		
		6-16	White	6-10	original color
				11-16	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 color section		
		136-152	Blue, yellow, purple, cyan color section		
		153-169	W, R, G, B, Y, P, C 7 color section		
		170-186	White, red, green, blue 4 color flow		
		187-203	Blue, yellow, purple, cyan 4 color flow		
		204-220	Blue, yellow, purple, cyan 4 color flow		
		221-237	color subsection by inflexion		
		238-255	Sound active color change		
CH5	X move	0-125	Adjust position by manual		
		126-185	Move circle from left to right automatically		
		186-225	Jump circle from right to left automatically		
		226-245	Auto jumping		
		246-255	Audio jumping		

Channel	Function	Value	Description
CH6	Y move	0-125	Adjust position by manual
		126-185	Move circle from up to down automatically
		186-225	Jump circle from down to up automatically
		226-245	Auto jumping
		246-255	Audio jumping
CH7	Zoom(+/-)	0-10	No change
		11-87	Adjust size by manual
		88-150	Zoom +
		151-200	Zoom -
		201-255	Zoom (+/-) circle
CH8	Rolling X	0	No change
		1-128	Manual rotation
		129-255	Auto rotation
CH9	Rolling Y	0	No change
		1-128	Manual rotation
		129-255	Auto rotation
CH10	Rolling Center	0	No change
		1-128	Manual rotation
		129-192	Auto clockwise rotation
		193-255	Auto counterclockwise rotation
CH11	Drawing	0-10	No change
		10-74	Manual drawing
		75-104	Auto drawing +
		105-144	Auto drawing -
		145-184	Auto drawing circle
		185-224	End to end drawing circle +
		225-255	End to end drawing circle -
CH12	X wave	0-9	No wave
		10-69	Small wave
		70-129	Medium wave
		130-189	Big wave
		190-255	Biggest wave
CH13	Y wave	0-9	No wave
		10-69	Small wave
		70-129	Medium wave
		130-189	Big wave
		190-255	Biggest wave
CH14	Display Mode	0-63	Normal display
		64-127	Light dot display
		128-191	Segment display
		192-255	Dot display
CH15	Red Dimmer	0-255	Dimmer laser output power from 100% to 0%
CH16	Green Dimmer	0-255	Dimmer laser output power from 100% to 0%
CH17	Blue Dimmer	0-255	Dimmer laser output power from 100% to 0%

Warranty Warnings:

1. Damages caused by the disregard of this user manual are not subject to Warranty.
The dealer will not accept liability for any resulting defects or problems.
2. Please consider that unauthorized modifications on the device are forbidden due to safety reasons. Please note that damages caused by manual modifications on the device or unauthorized operation by unqualified persons are not subject to warranty.
3. If this device will be operated in any way different to the one described in this manual, it may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns electric shock, etc.

After trying the above solution you still have a problem, please contact your dealer or our company for service.