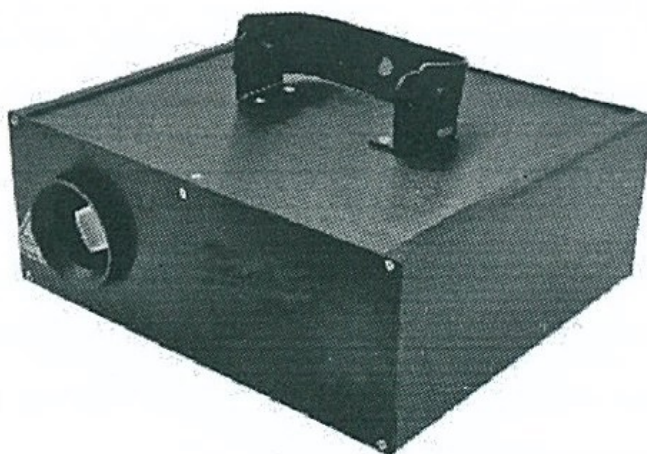




1500mW RGB 4-in-1 ILDA Animation Laser Light

User's Manual



ATTENTION: Read this manual before using. Do not attempt to open the housing or repair this device by yourself without contact us!

General Instructions





Unpacking:





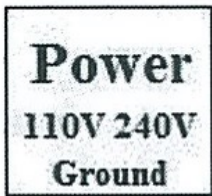


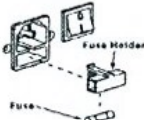




Thank you for purchasing this product. Please read user guide for safety and operations information before using the product. Keep this manual for future reference. This product can create perfect light programs and effects since it has passed a series of strictly tests before delivery. Please check 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

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.

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.

	There are no user serviceable parts inside the light. Any reference to servicing this unit you may find from now on in this User Manual will only apply to properly C we certified technicians. Do not open the housing or attempt any repairs unless you are one of them.
	Please refer to all applicable local codes and regulations for proper installation of the light.
	Keep this manual for future consultation. If you sell the light to another user, make sure that they also receive this manual.
	Avoid direct eye exposure to the light source while the fixture is on. Always disconnect the light from its power source before servicing. Always connect the light to a grounded circuit to avoid the risk of electrocution.

	This product is for indoor use only! Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other fluids, or metallic objects.
	Make sure there are no flammable materials close to the fixture(s) while operating.
	Please prevent this light away from electrical shock
	When hanging this fixture, always secure it to a fastening device using a safety cable (not provided).
	Always make sure that you are connecting the light to the proper voltage, as per the specifications in this manual or on the product's sticker. Never connect the light to a dimmer pack. Make sure that the power cable is not cracked, crimped or damaged. Never disconnect the fixture by pulling or tugging on the power cable.
	The maximum ambient temperature (Ta) is 104 F (40 C). Do not operate the fixture at a higher temperature. In case of a serious operating problem, stop using this product immediately!
	Use cleaning tissue to remove the dust absorbed on the external lenses periodically to optimize light output.
	Always replace with the exact same type fuse, replacement with anything other than the specified fuse can cause fire or electric shock and damage your unit, and will void your manufactures warranty.
	Do not remove or break the warranty label, otherwise it void the warranty.
	There are no serviceable parts in the LED light. Please have all servicing and adjustments made by a qualified service engineer.
	Don't throw this product away just as general trash, please dispose of this product following the abandon electronic product regulation in your country.
	To protect the environment, recycle packing material wherever possible.

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.

Technical Specification

Description: 4-in-1 3D Animation Laser Light

4-in-1: single animations, 3D fat-beam single animations and 3D kaleidoscope animations and twinkling animations.

Laser power: 1.5W RGB (Red:500mW, Green:150mW,Blue:850mW 450nm)

Scanner speed: 25kpss

◆ Feature: Pre-programmed with 128/256 beam show and animated graphics show patterns. Five functions: Auto, Sound Active, DMX512, Master/Slave and PC control. In Sound Active mode, the unit will shut off when the music stops. Under DMX mode, this light supports pattern selection, color change, X/Y moving, dimmer, rotation, zoom in/out, drawing and rolling.

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

◆ Play Mode Sound Active, AUTO-Beam, AUTO-Animation, DMX512 (14 channels), Master/ Slave, PC ILDA

◆ Interface 3 pins XLR jack for DMX or Master-Slave linking

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

◆ Net Weight 4.4Kg

◆ Gross Weight 4.9Kg (inner box), 20.6kg (outer box)

◆ Inner Box 326*300*195(0.02cbm)

◆ Outer Box 620*341*430(0.091cbm) 4pcs/carton

◆ Applicable place: logo projector, company advertising, superstar fashion show, DJs, Bands, Bars, Pubs, Clubs, Roller skating rinks, KTV, Family Party, etc.

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

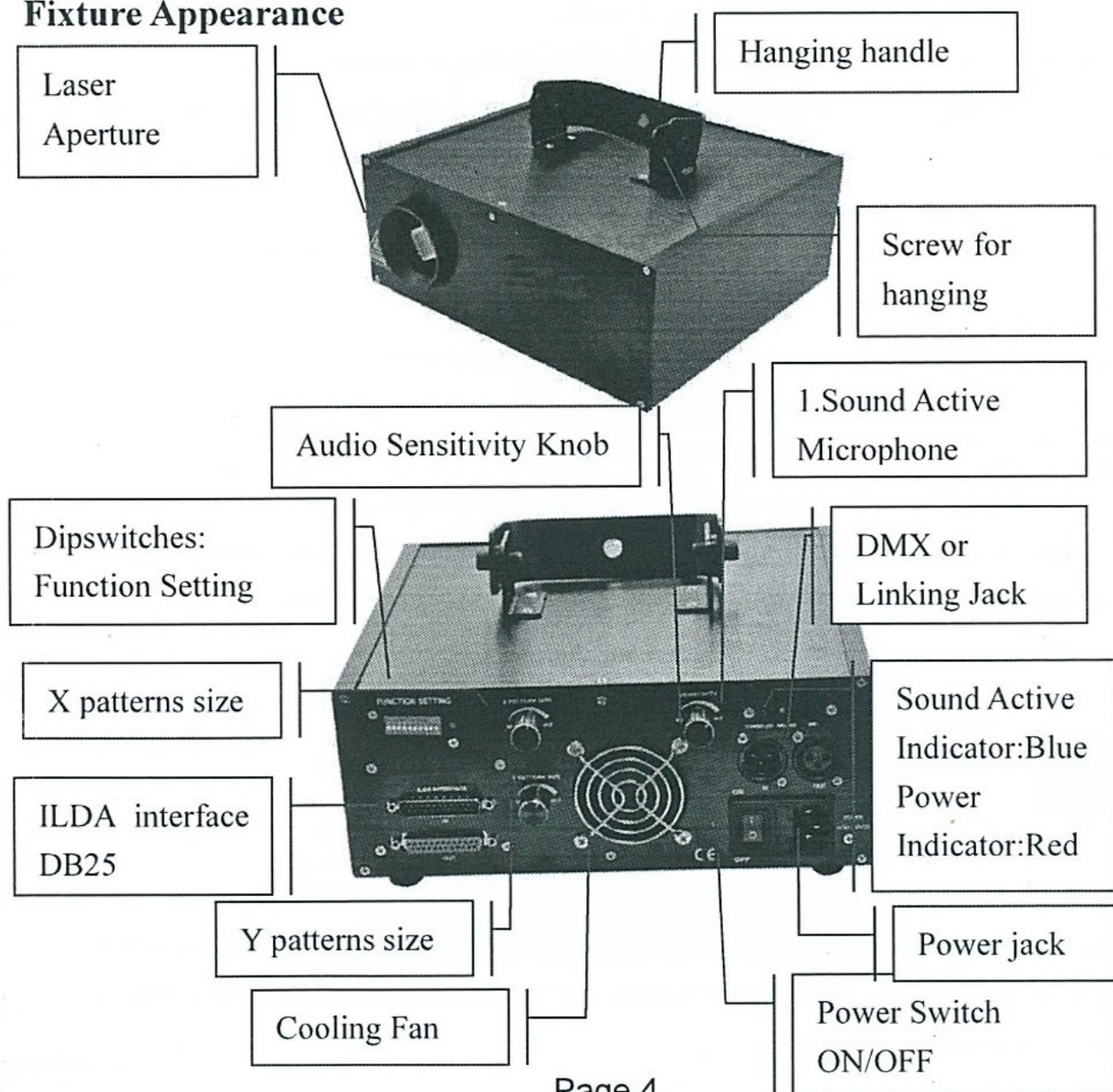
**Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.*

**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.

Fixture Appearance



Function & Setting

Sound Active

The change of the LED pattern is controlled by sound, that is, the rhythm of the sound control the effect of the changing light pattern.

AUTO

Auto cycles the built-in programs without being controlled externally. It has no light OFF.

Stand-Alone Operation (Sound Active, AUTO mode)

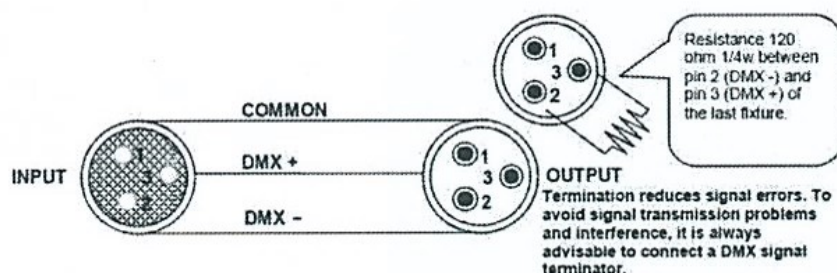
The mode allows a single unit to react to the beat of the music in the master mode.

1. Install the units in a suitable position (laying or appending).
2. Set dipswitch to select Sound Active or AUTO mode.
3. Turn on the unit power, the unit begins reset, then the unit begins working.
4. The unit will react to the low frequencies of music via the internal microphone. Adjust the audio sensitivity knob on the back of the unit to make the unit more or less sensitive in sound active. The panel has LED indicating for sound active.

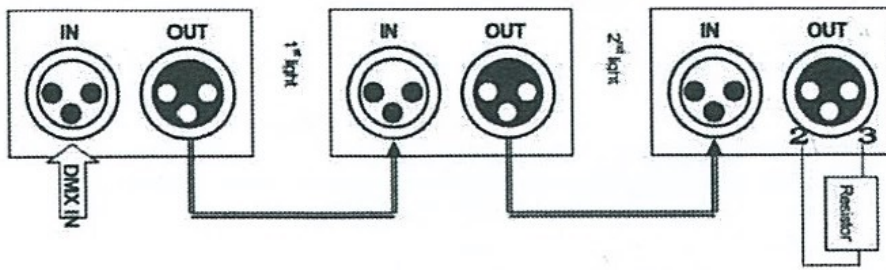
Master-Slave Operation

This mode will allow you to link up to 32 units together without controller.

1. Install the units in a suitable position (laying or appending).
2. Choose a unit to function as Master mode, set dipswitch to select Sound Active or AUTO mode. The others must be set to Slave mode, set dipswitch to select Slave mode.
3. Use standard XLR microphone cable chain your units together via the XLR connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture.



Caution: Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.



4. Turn on the all units' power, the units begins reset, and then the unit begins working. The slave units will re-act the same as the master unit.
5. The units will react to the low frequencies of music via the internal microphone. Adjust the audio sensitivity knob on the back of the master unit to make the unit more or less sensitive in sound active. The panel has LED indicating for sound active.

Universal DMX Operation (DMX mode)

The system only accepts the DMX512 signal of international standard to control the system. This mode allows you to use universal DMX-512 console to operate.

1. Install the units in a suitable position (laying or appending).
2. Use standard XLR microphone cable chain your units together via the XLR connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture.
3. Turn on the all units' power, the units begins reset, and then the unit begins working.
4. Use DMX console to control your units.

Notes:

1. DMX console can not be used in Master-Slave operation (Sound Active or AUTO mode).
2. There should be only one master unit in Master-Slave operation.

DMX Control

The system only accepts the DMX512 signal of international standard to control the system mode, the laser beam ON /OFF, running direction, running speed and twinkle speed etc.

Function setting

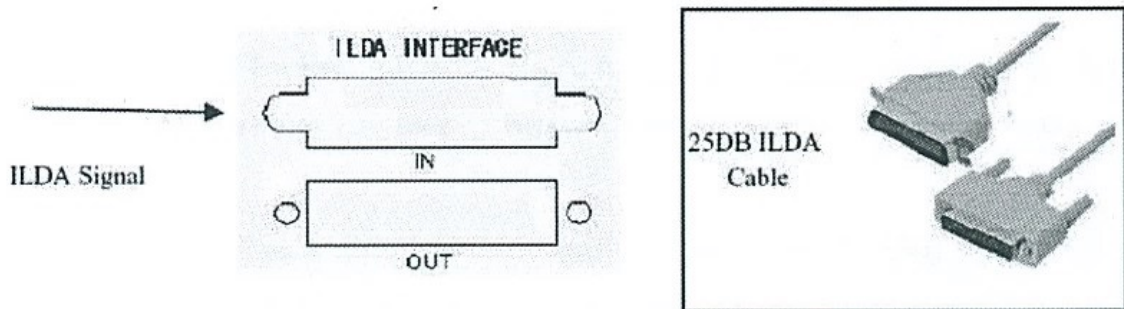
If it is set to ILDA mode (use PC software to control laser light), just need to connect ILDA signal to DB25 jack. If set to Built-in program, then ILDA signal cannot be connected, setting dipswitches directly is ok. ILDA mode (PC control) and Built-in program mode can be identified and transited automatically.

1=ON 0=OFF X=ON OR OFF										
Dipswitch Chart										
1	2	3	4	5	6	7	8	9	10	Mode
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	AUTO Animation
OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	AUTO beam Animation
OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	ON	AUTO 1 line 3D
OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	ON	AUTO galaxy 3D
OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	AUTO small twinkling
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	AUTO 4-in-1 Line beam, 1 line beam, 1 line 3D, galaxy 3D, small Twinkling
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	SOUND Animation
OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	SOUND beam Animation
OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	SOUND 1 line 3D
OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	SOUND galaxy 3D
OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	SOUND small twinkling
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	SOUND 4-in-1 Line beam, 1 line beam, 1 line 3D, galaxy 3D, small Twinkling
Dipswitch									0	DMX

Note : When 9 and 10 is ON ,it is Auto , When 10 is ON ,it is sound active , When all is OFF , it is DMX

PC Control Operation

This mode allows you to use PC software(for example: Pangolin, Phenix, Mamba) to operate. If no ILDA signal to DB25 jack in ILDA mode, the laser and scanner will be closed for protection. The scan speed of software control must be less than the scanner speed, otherwise, the patterns possible have distortion, or the scanner is protected possibly by built-in circuitry.



DMX Control

The system only accepts the DMX512 signal of international standard to control the system.

DMX Control Parameter Chart

Channel	Function		Value	Description
1	Mode		0---63	Close, laser OFF
			64---74	SOUND Animation
			75---85	SOUND Lines beam
			86---96	SOUND 1 line 3D
			97---107	SOUND galaxy 3D
			108---118	SOUND small twinkling
			119---127	SOUND 4-in-1 Line beam, 1 line beam, 1 line 3D, galaxy 3D, small Twinkling
			128---138	AUTO Animation
			139---149	AUTO beam Animation
			150---160	AUTO 1 line 3D
			161---171	AUTO galaxy 3D
			172---182	AUTO small twinkling
			183---191	AUTO 4-in-1 Line beam, 1 line beam, 1 line 3D, galaxy 3D, small Twinkling
			192-255	DMX manual
2	Pattern		0-----63	Beam mode
			64---127	1 line 3D mode
			128---191	Galaxy 3D mode
			192---255	Small Twinkling mode
3	Pattern 1 selectio n	CH2<192 (beam, 1-line 3D, galaxy 3D mode)	0---235	118 kinds of static patterns
			240--241	Square changing
			242---243	Ghost face (Halloween)
			244--245	Dancing
			246---247	Fish
			248--249	Horse
			250---251	Bird
			252--255	Dinosaur
		CH2>192 (small twinkling mode)	0---199	50 kinds of static small patterns
			200---219	Running
			220---239	Animal
			240---255	Flying bird

4	Pattern 1 color		0----1	Close, laser OFF
			2----69	R--G--B--RG--RB--GB--RGB
			70---79	R--G--B in 8 points
			80---89	RG--RB--GB--RGB in 8 points
			90---99	R--G--B--RG--RB--GB--RGB in 8 points
			100--109	R--G--B--RG--RB--GB--RGB in flowing
			110--119	R--G--B in inflection point
			120--129	RG--RB--GB--RGB in inflection point
			130--139	R--G--B--RG--RB--GB--RGB in inflection point
			140--179	R--G--B in AUTO
			180--219	RG--RB--GB--RGB in AUTO
			220--255	R--G--B--RG--RB--GB--RGB in AUTO
5	Pattern 2 selection	CH2<192	0---239	118 kinds of static patterns
			240---255	Blank
		CH2>192	0---199	50 kinds of static small patterns
			200---255	Blank
6	Pattern 2 color		0----1	Close, laser OFF
			2----69	R--G--B--RG--RB--GB--RGB
			70---79	R--G--B 8 points
			80---89	RG--RB--GB--RGB 8 points
			90---99	R--G--B--RG--RB--GB--RGB 8 points
			100--109	R--G--B--RG--RB--GB--RGB in flowing
			110--119	R--G--B in inflection point
			120--129	RG--RB--GB--RGB in inflection point
			130--139	R--G--B--RG--RB--GB--RGB in inflection point
			140--179	R--G--B in AUTO
			180--219	RG--RB--GB--RGB in AUTO
			220--255	R--G--B--RG--RB--GB--RGB in AUTO
7	2 patterns working mode		0----27	single pattern mode (only pattern 1)
			28----55	X phase
			56----83	Y phase
			84----111	X/Y phase same time
			112---139	Zoom-in phase
			140----167	Pattern 1 no Sine wave, Pattern 2 Only Sine Wave
			168----195	Pattern 1 no zoom in, Pattern 2 only zoom in
			196----223	Pattern 1 no rotation, pattern 2 only rotation
			224----251	Rotation phase
			252----255	Pattern 1 no Y-moving direction, Pattern 2 no X-moving direction

8	Moving-X	0---127	Manual to left/right moving
		128--160	Auto to left moving
		161--192	Auto to right moving
		193--224	Auto to left/right moving
		225--239	Jumping
		240--247	rhombus moving
		248--255	UP corner moving
9	Moving-Y	0---127	Manual to up/down moving
		128--160	Auto to down moving
		161--192	Auto to up moving
		193--224	Auto up/down moving
		225--231	Circle moving
		232--239	X fluctuation AUTO
		240--247	Square fluctuation AUTO
		248--255	Down corner moving
10	X Dimmer	0---150	Dimmer manual
		151--255	Dimmer Auto
11	Y Dimmer	0---150	Dimmer manual
		151--255	Dimmer Auto
12	Rotation	0---127	Manually rotation
		128--159	Auto clockwise rotation
		160--191	Auto counter clockwise rotation
		192--223	AUTO clockwise/counter clockwise rotation
		224--255	Ellipse tracking rotation
13	Pattern Zoom(+/-)	0	no motion
		1---159	Manual zoom(+/-)
		160--191	Auto zoom(+)
		192--223	Auto zoom(-)
		224--255	Auto zoom(-/+)
14	Sine wave fluctuation	0---128	Y fluctuation
		129--255	X fluctuation
15	Display Dot	0---64	Manually dot
		65---255	Auto dot SLOW--->FAST

Troubleshooting

1. If the power supply indicator doesn't light up and the light doesn't work, please check the power supply, the input voltage and the fuse.
2. In Stand-Alone operation, if the power supply indicator is light up and sound active indicator isn't light up, but the light is shut off doesn't work.
 - A. Because sound is too small make for light shut off in sound active, please increase the music volume or increase audio sensitivity with sensitivity knob, please check as below.
 - B. Please check if unit has been set up in slave mode, then set up in master mode.
3. In Master-Slave operation, slave unit don't function, please check as below.
 - A. Make sure to there's only one master in the chain, and the others are set in slave mode.
 - B. Make sure to control the unit without DMX console controlling.
 - C. Make sure to take a good quality power cable and connection.
4. In DMX mode operation, the laser is OFF and the DMX signal indicator is unlighted, please check as below.
 - A. Make sure to set up the DMX mode.
 - B. Make sure to have a good connection.
5. In DMX operation, the unit can't be controlled by the DMX console, but the DMX signal indicator is flashing, please make sure the DMX console and unit have the same channel.
6. If the unit is fail, please turn off the unit, then turn on again after 5 minutes.

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.