

Rave



User Manual

Dual Laser & LED Light Show SL-3410

USER MANUAL

Dear User, thank you for choosing the SL-3410 Party Light, before operating this device, please read this manual thoroughly, and retain for future reference.

WARNING

- If the external, flexible cable or cord of this product is damaged it must be replaced by a correct approved cable.
- Shields, lenses or ultraviolet screens should be changed if they become damaged to an extent that their effectiveness is impaired, for example by cracks or deep scratches.
- Change the lamp if it is damaged or thermally deformed.
- After opening, carefully unpack the carton and check contents to ensure that all parts are in good condition.
- Contact the supplier or store of purchase immediately and retain packaging for inspection if any parts are damaged.
- Follow this user manual to operate this unit, making sure you are clear on all laser safety information and unit operation before powering it on.
- Incorrect operation will void warranty.

BOX CONTENTS

- 1 x Laser Light
- 1 x Power Cord
- 1 x Keys for switch
- 1 x Interlock switch
- 1 x User Manual

SAFETY INSTRUCTIONS

- To protect the environment, please try to recycle the packing material as much as possible.
- The fixture is for indoor use only and rated IP20. 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.
- Don't throw this product away just as general trash, please deal with the product by following the abandoned electronic product regulations in your country.
- Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids.
- The fixture must be fixed at least 50cm from surrounding walls.
- To avoid condensation forming inside, allow this unit to adapt to the surrounding temperatures when bringing it into a warm room after transport.
- Don't install it on a flammable object.
- Do not use it when the maximum ambient temperature is higher than 40 degrees.
- Unplug the unit when it is not in use for a long period of time or before replacing the bulb.
- Do not open the top cover to avoid unit damage.
- Please use the original packing when the device is being transported.

LASER SAFETY

- According to EN 60825-1:2007, this product belongs to class 3B.
- Direct eye contact may cause injury.
- This product is for laser shows only.
- The class 3B laser light should be operated by a professional operator only.
- This is a show laser, emitting radiation with a wavelength spectrum between 400 and 700nm and producing lighting effects for shows.
- International laser safety regulations require that the vertical height from installation to ground is more than 3 meters, horizontal distance is 2.5 meters from audience.
- Never direct the laser beam to people or animals and never leave this device running unattended.
- The legal requirements for using laser entertainment products vary from country to country. The user is responsible for the legal requirements at the location/country of use.
- Warning! Avoid direct eye contact with laser beams during operation, especially when the laser beams stay still, or injury to eyes may occur.
- Caution! The laser security measures are designed according to the specific terms of the relevant international laser safety standards and has the following laser safety protection means:

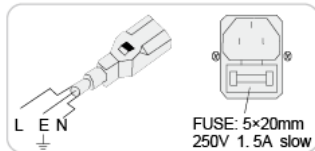
Laser Key Switch: Laser is available only when the key is turned on.

Laser Emergency Switch: Remote connecting switch, it will cut off the laser light path instantly once the device is in a potential hazard.

INSTALLATION

- Attention! The installation must be carried out by qualified service personnel only.
- Improper installation can result in serious injuries and /or damage to property.
- Overhead rigging requires extensive experience!
- Working load limits should be respected, certified installation materials should be used, and the installed device should be inspected regularly for safety.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the fixture in a well ventilated spot, far away from any flammable materials and/ or liquids.
- The fixture must be fixed at least 50cm from surrounding walls.
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- The device should be well fixed; a free swinging mounting is dangerous and should not be considered!
- Do not cover any ventilation opening as this may result in overheating
- Before first time use it must be inspected by professional staff to ensure it is safe.
- A safety inspection should be performed regularly every year.
- Never expose the lens to direct sunlight, even for a short period. This may damage the light effect or even cause a fire!

AC POWER LINKING



Please use the power cable supplied, note that power voltage and frequency are the same as the marked voltage and frequency of device when connecting power. Every device's power should be connected separately, so that device can be controlled individually.

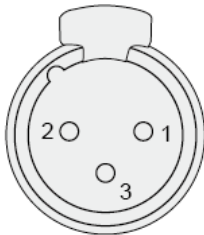
The power cord specification table:

Cable (EU)	Cable (EU)	Pin	International
Brown	Black	Live	L
Light Blue	White	Neutral	N
Yellow/Green	Green	Earth	

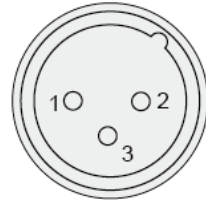
INSTALLATION - DMX CONNECTION

Connection between laser lights and DMX must use the shield cable of diameter greater than 0.5mm. Please use the attached 3 pin XLR plug/socket to connect the DMX output/input interface. The connection between socket and cable is shown below (note the plug/socket's 3 pin number and position).

DMX-Output
XLR Mounting-Sockets (Rear View)

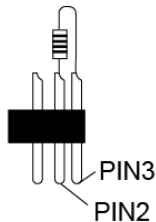


DMX-Input
XLR Mounting-Plugs (Rear View)

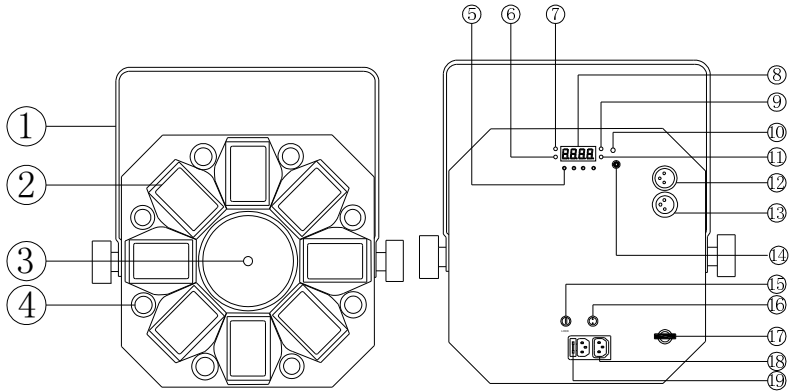


1. Shield
2. Shield (-)
3. Shield (+)

- Note, XLR plug/socket's 3 pin cannot be touched by inner hull, connection between pins is not allowed. Except above connection, XLR plug/socket cannot be connected with XLR control line. Device receives international standard DMX512(1990) control signal.
- When using standard DMX512 control signal, the last device's output interface must be connected to a DMX plug. This plug is putting a 120-ohm resistance between "canon" plug's 2 pin and 3 pin. Shown in below diagram. Sticking this plug into the last device's signal output interface will avoid the interference during the process of signal transmission.



OPERATING INSTRUCTIONS



No.	Name	Function
1	Hanging Basket	Laser show, do not look directly into the hole
2	LED 5 Colour Output	RGBAWx3W
3	Laser Aperture	Laser show, do not look directly into the hole
4	LED white color output	8x1W
5	Function Select	Choose from a variety of work mode
6	Music Indicator	In DMX mode, red indicator light on after DMX connected,
7	DMX Indicator	For setting mode
8	LED Display	In Auto mode, blue indicater light on
9	Auto Indicator	In Auto mode, blue indicater light on.
10	Sound Receiver	Receive sound signal
11	Slave Indicator	In slave mode, orange indicater light on
12	DMX Input	3-Pin Male XLR interface, for DMX communication
13	DMX Output	3-Pin female XLR interface, for DMX communication
14	Sound Active Modulation Knob	Adjust the voice sensitivity

15	Safety Key	Laser Switch
16	Interock	An external remote laser switch
18	Power Input	Power input socket, built-in protective tube and spare tube
19	Fuse	To prevent the current over load

INSTALLATION - DMX CONNECTION

Once after every power on laser the VERSION and MANUFACTURE INFORMATION will be shown in LCD monitor on rear panel. When laser is powered on, LCD monitor on rear panel shows the current operating standalone mode or DMX address of DMX mode. With help of LCD control panel, it is very easy to set and change the operating mode of the laser. After resetting and saving, the new mode information will be shown on LCD monitor at next power on.

FUNC

Mode Option, to choose the operating mode of laser.

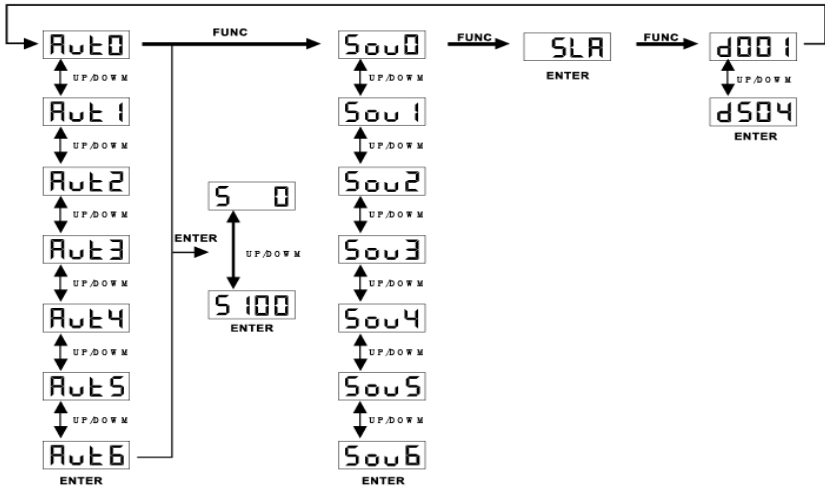
ENTER

Confirmation, to confirm the laser to show the present mode at the next operation.

UP

DOWN

UP/DOWN, to change operating mode, parameter or DMX address.



Func	Up + Down	Enter	Enter
Auto	Aut 0 Laser +RGB AW+8/W	Up/Down to choose display speed S1 is fastest S100 is best S0 is default	Confirm
	Aut 1 Laser +RGBWA		
	Aut 2 Laser +8/W		
	Aut 3 RGBWA +8/W		
	Aut 4 RGBWA		
	Aut 5 Laser		
	Aut 6 8/W		
Sound	Sou 0 Laser+RGBAW+8W	Confirm choice, adjust by potentiometer.	
	Sou 1 Laser+RGBWA		
	Sou 2 Laser+8/W		
	Sou 3 RGBWA+8/W		
	Sou 4 RGBWA		
	Sou 5 Laser		
	Sou 6 8/W		

Slave	Its work will follow the procedure in host device by DMX signal.	LED letter strobes means DMX signal or SLAVE signal is not connected correctly, please check cable, control panel and other equipment.
DMX	D001 to D505	

DMX INSTRUCTIONS

Channel	Value	Function
Ch1 Mode	0-9	Blackout
	10-24	Aut0
	25-39	Aut1
	40-54	Aut2
	55-69	Aut3
	70-84	Aut4
	85-99	Aut5
	100-114	Aut6
	115-129	SOU0
	130-144	SOU1
	145-159	SOU2
	160-174	SOU3
	175-189	SOU4
	190-204	SOU5
	205-220	SOU6
221-255	DMX Mode	

DMX INSTRUCTIONS

CH2 LED Operation	0-9	Blackout
	10-14	Red
	15-19	Green
	20-24	Blue
	25-29	Amber
	30-34	White
	35-39	White+Red 15
	40-44	Red+Green 12
	45-49	Green+Blue 23
	50-54	Blue+Amber 34
	55-59	Amber+White 45
	60-64	White+Green 25
	65-69	Green+Amber 24
	70-74	Amber + Red 14
	75-79	Red+Blue
	80-84	Blue+White
	85-89	Red+Green+Blue 123
	90-94	Red+Green+Amber 124
	95-99	Red+Green+White 125
	100-104	Red+Amber+Blue 125
	105-109	Red+White+Blue 135
	110-114	Red+Amber+White 114
	115-119	Amber+Green+Blue 234
	120-124	Blue+Green+White 235
	125-129	Amber+Green+White 245
	130-134	Amber+White+Blue 345
	135-139	Red+Green+Blue+Amber 1234
	140-144	Red+White+Blue+Amber 1345
	145-149	Red+Green+White+Amber 1245

	150-154	Red+Green+Blue+Amber+White 1235
	155-159	White+Green+Blue+Amber 2345
	160-164	Red+Green+Blue+Amber+White
	165-209	Automatic (Single Colours Only)
	210-255	Automatic (Two Colours at a time)
CH3		Automatic Speed (When CH2 is between 160-255)
	0-255	Slow-fast (Only Colours)
CH4 LED Strobe	0-4	No-Function
	5-254	Strobe (Slow>Fast) (Max 30Hz)
	255	Sound-activated strobe mode
CH5 8pcs White LED Control	0-9	Black Out
	10-19	Picture1 (Slow-Fast)
	20-29	Picture2 (Slow-Fast)
	30-39	Picture3 (Slow-Fast)
	40-49	Picture4 (Slow-Fast)
	50-59	Picture5 (Slow-Fast)
	60-69	Picture6 (Slow-Fast)
	70-79	Picture7 (Slow-Fast)
	80-89	Picture8 (Slow-Fast)
	90-99	Picture9 (Slow-Fast)
	100-109	Picture10 (Slow-Fast)
	110-255	ON
CH6 Laser	0-9	Black Out
	10-49	Red On
	50-89	Green On
	90-129	Red & Green On
	130-169	Green On & Red Strobe
	170-209	Red On & Green Strobe
	210-255	Red & Green (Alternate Strobe)

CH7 Laser Strobe	0-4	No Function
	5-254	Strobe (Slow-Fast) (Max 30Hz)
	255	Sound-activated Strobe Mode
Ch8 LED Rotate	0-4	Stop
	5-127	Rotate Clockwise (Slow-Fast)
	128-133	Stop
	134-255	Rotate Counter-clockwise (Slow-Fast)
Ch9 Laser Rotate	0-4	Stop
	5-127	Rotate Clockwise
	128-133	Stop
	134-255	Rotate counter-clockwise

PRODUCT SPECIFICATIONS

Dimensions:	246(L) x 246(W) x H152(H) (203)mm
Weight:	4.2kg
Power Input:	
Range:	100-240V 50/60Hz
Rate:	66W
Fuse:	2A
Light Source:	
Type:	Class 3B Laser Diodes / LED CHIP
Power Quantity/Colour:	1/Red, 1/Green
Laser Power Rate:	100mW 50mW
Wave Length:	650nm 532nm
Quantity/Colour:	1/Red, 1/Green, 1/Blue, 1/Orange, 1/White, 2/Red, 2/Green, 2/Blue, 2/Yellow
LED Power Rate:	3W, 3W, 3W, 3W, 3W, 2W, 2W, 2W, 2W
Wave Length:	620nm, 520nm, 460nm, 600nm, 6500K

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