15. Disposal :

Please disposal of the unserviceable device according to the current

statutory requirements.

16. Specification :

Voltage : 100/240Vac, 50/60Hz	**DMX Channels :** 8
Fuse : 2A Slow blow	**Dimensions :** 256 x 180 x 99mm
Laser Class : 3B	**Power Consumption :** 20W
Laser Power : 40mW Green, 100mW Red	**Weight :** 3.0kg

Note: Conforms to Laser and LED Safety standard BSEN60825-1 2007

incorporating corrigendum 2008
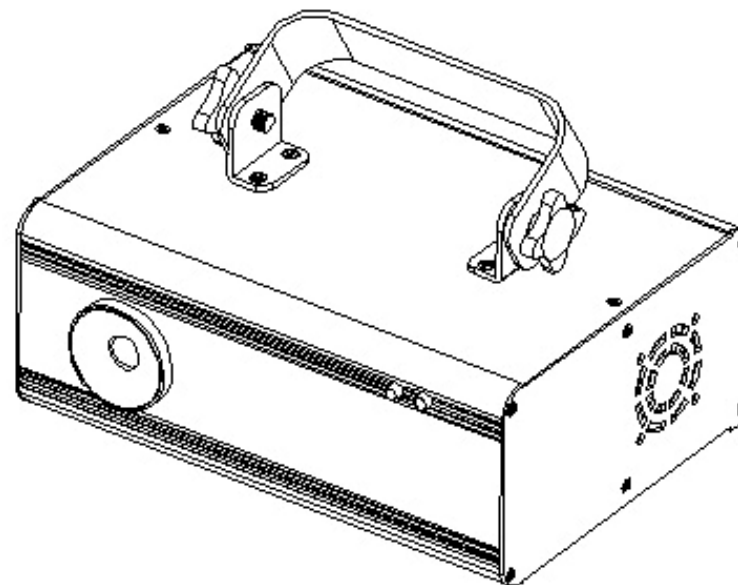
qtxlight

LS-Krypton Laser

User manual

152.742UK

Version 1.0

CAUTION

- **Please read this manual fully before installing or operating this product as it contains important safety information relating to its installation and operation.**

- **This Class 3B laser product emits hazardous levels of optical radiation and will cause injury to the eyes if viewed directly.**

- **This product is not suitable for projection directly at audiences or other personnel.**

- **This product must not be used for any form of audience scanning application and is for professional use only.**

	000-036	Laser Blackout
7 (Rotation Direction)	037-072	Red
	073-108	Green
	000-255	Alternately Strobe Red & Green
	000-056	Red On, Strobe Green
	057-112	Green On, Strobe Red
	113-168	Both Red and Green Strobe
11 (Strobe)	000-009	No strobe
	010-255	Slow to Fast

14. DMX controlling :

DMX CHANNEL	DMX VALUE	DESCRIPTION
1 (Mode)	000-009	Laser Block Out
	000-060	ARA, Auto Running Random Effect
	061-110	ASR, Auto Running Slow Random Effect
	111-160	SRA, Sound Activated Random Effect
	161-255	DMX MODE (Other channels active)
2 (Rotation Speed)	000-025	Grating Effect 1
	026-050	Grating Effect 2
	051-075	Grating Effect 3
	076-100	Grating Effect 4
	101-125	Grating Effect 5
	126-150	Grating Effect 6
	151-175	Grating Effect 7
	176-200	Grating Effect 8
	201-225	Grating Effect 9
	226-255	Grating Effect 10
3 (Grating Vibration)	000-255	Slow to Fast
4 (2nd Grating)	000-127	The Second Grating = Off
	128-255	The Second Grating = On
5 (Grating Vibration)	000-255	Slow to Fast
6 (2nd Grating Vibration Range)	000-255	Short to Long

1. Introduction:

This Class 3B ⚠ laser product should only be installed and used by personal who are trained in the management of laser radiation and are able to operate in accordance within the guidance given by the Health and Safety Executive (HSE) in HS(G)95: "The Radiation Safety of Lasers used for Display purposes".

Copies of this guide can be downloaded from the HSE website below:

www.hse.gov.uk/pubns/priced/hsg95.pdf

This product contains no user-serviceable parts. Under no circumstances should any attempt be made by the user to dismantle or modify it in any way.

2. Installation and mounting instructions:

This product must be securely mounted so that its emission is always directed away from people and objects that are able to reflect the emission towards people. In this regard the separation distances of 3 metres vertically and 2.5 metres horizontally, cited in HS(G)95 and shown overleaf must be observed.

Venue cross-sectional view
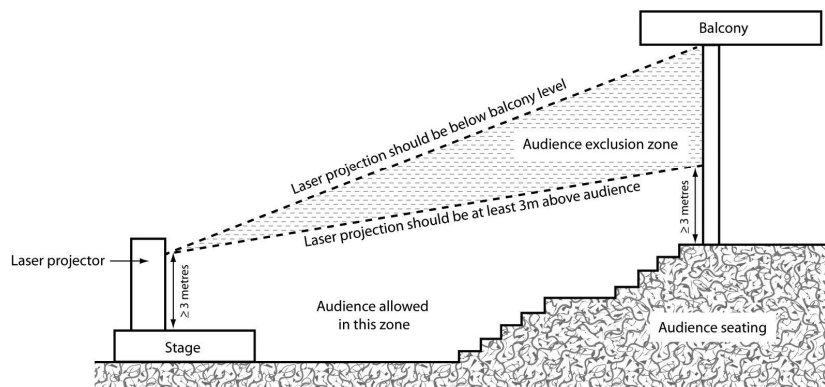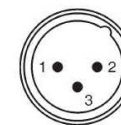

Venue birds eye view
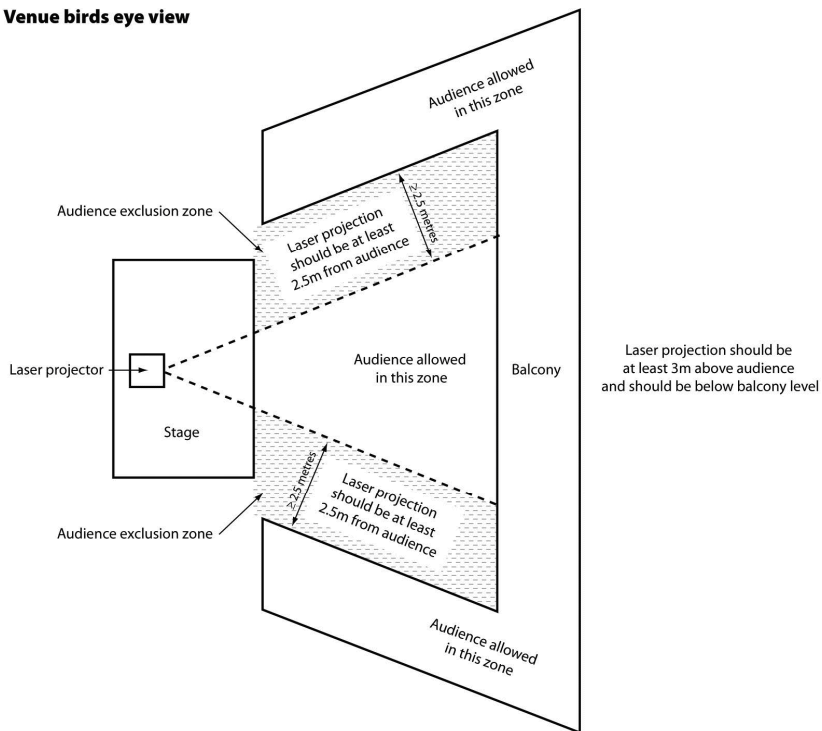
13. DMX-512 connection :

The fixture is equipped with 3-pin XLR connectors for DMX input and output. The SE connectors are wired in parallel. Only use a shielded twisted-pair cable designed for 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

Building a serial DMX-chain:
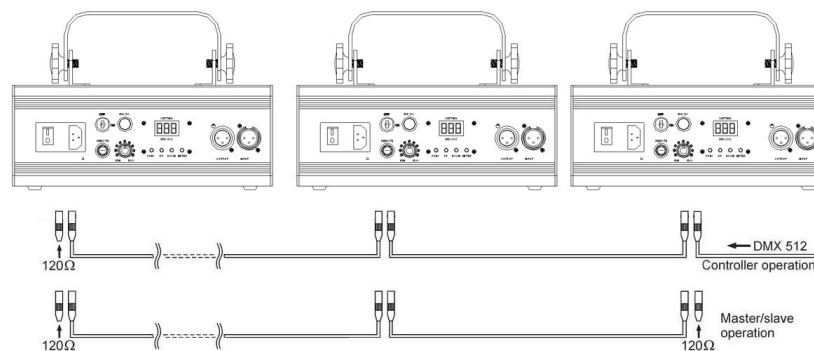
Caution: At the last fixture, the DMX-cable has to end with a terminator. Solder a 120 Ohm resistor between PIN 2 (-) and PIN 3 (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

12. Functions guide:

ArA

DMX-512

● ● ● ●
FUNC UP DOWN ENTER
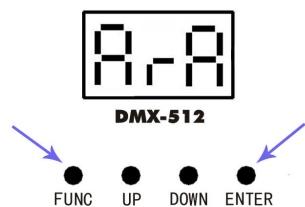
FUNC: Select Function

UP: Scroll up

DOWN: Scroll down

ENTER: Confirm selection

DISPLAY		STAND ALONE MODE PREPROGRAM EFFECT
ArA	ARA	Auto Running Random Effect
SrA	SRS	Sound Activated Random Effect
SLP	SLP	**Sl**ow Moving **P**atterns Effect
SLA	SLA	**SLA**ve mode
001	DMX	DMX Address

Always allow enough room for adequate ventilation. It is important never to obstruct the fan or air-vents

The product must be fixed to suitable rigging using an appropriate clamp and the fixing screws tightened to prevent the fixture from moving. A suitable safety cable should also be used.

When selecting the installation location, take into account the need for routine maintenance and also make sure that there is no possibility of any unauthorized persons interfering with the installation. Never install in locations where the product could be exposed to rain, high humidity, extreme temperatures, or restricted ventilation. Also ensure that the laser is located a minimum of 0.5metres from any potentially flammable materials

LS-KRYPTON LASER: For indoor use only

3. General introduction:

This dual colour laser has two stepper motors, which in combination with a multipoint diffraction lens, work together to produce a whole new range of effects covering a wide area. It is competitively priced for what it is capable of, making it an ideal addition to any nightclub or mobile DJ set-up.

Features :

■ 3 modes of operation (Sound to light, auto & auto mode slow effect)

■ Master and slave mode

■ 8 channel DMX (Programs, Grating, Laser colour, Strobe)

■ Key control for laser emission with added security of remote switching facility

■ 2 motors and diffraction lens for multiple effects

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11. Rear display:
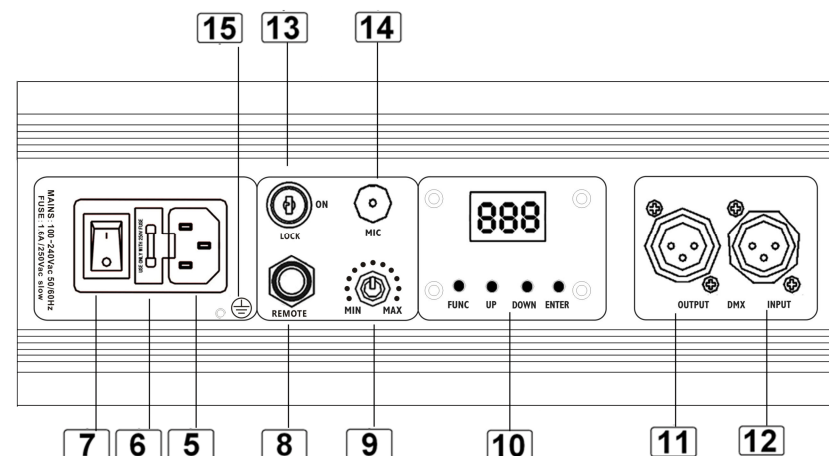
5. IEC Power input
6. Fuse Holder
7. Power switch ON/OFF
8. Interlock input (For emergency stop button)
9. Sound sensitivity control
10. Digital control display
11. DMX Input
12. DMX Output
13. Safety Key
14. Microphone
15. Earth Screw
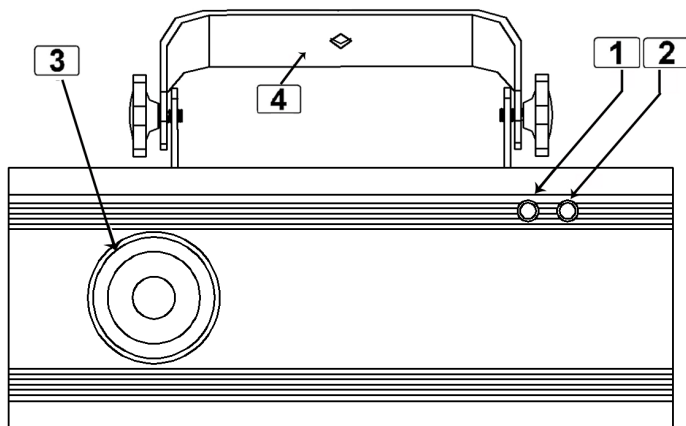
4. Packaging contents:

Please check the contents to ensure that the product has been received in good condition.

Laser x 1unit	User's Guide x 1pc
IEC Power Lead x 1pc	Interlock Connector x 1pcs
Safety Keys x 2pcs	

If you find any accessory is missing or the lighting has arrived with any problems, please contact your local dealer at once.   This product contains no user-serviceable parts so make no attempt to try to fix or modify this item yourself as this will invalidate the warranty. We recommend you keep the original package and proof of purchase for any possible replacement or returned demand.

5.   Connect with power supply:

Use the plug to connect to the main power supply as following.

Line	Connection	International signal
Brown	Live	L
Blue	Neutral	N
Yellow /Green	Earth	E

6.   Replacing fuse :

Disconnect from the main power supply first, then remove the fuse from the IEC Socket or fuse holder . Replace with a fuse of the correct rating as stated on product label or user guide.

7. Caution:

For your safety, please kindly pay attention to all of the warnings below:

- Always plug in the power plug last and disconnect from the mains when the device is not in use or before cleaning.
- Do not install and operate the device in rain or extreme heat, moisture or dusty environments.
- This device is for indoor use only and in a dry environment.
- Do not switch on immediately. Wait until the unit reaches room temperature.
- Do not shake the device and avoid brute force when installing or operating
- Do not use the device during thunderstorms and please disconnect the power.
- Do not use solvents or aggressive detergent to clean the device. Use a soft and clean cloth.
- Do not modify the device or the connected power cord without authorization.
- Do not stare into the aperture. This product emits hazardous levels of optical radiation and will cause serious injury to the eyes if viewed at close range.
- This product should be securely mounted so that its output emission is always directed away from people and at objects that are able to reflect emission towards people. In this regard, the separation distances cited in HS(G)95 should be observed.
- The symbol ⊄---m⌇ determines the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than 0.5m.

8. General maintenance:

Be sure to power off the fixture before conducting maintenance.

To maintain optimum performance and minimize wear, fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build-up reduces can reduce light output & performance as well as overheating. This can lead to reduced life and increased mechanical wear.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when fixture is cold with a mild solution to the cloth or tissue, and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequently depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can require cleaning fluid. Always dry the parts carefully. Clean the external optics at least every 20 days.

9. Quick trouble shooting :

7.1 If the unit does not function – Check that the main power is on and the fuse is intact.

7.2 If the unit is not reacting to music – check the unit is in "sound to light" mode and that the sensitivity control is fully clockwise.

7.3 If the product is not reacting to DMX signals, check the cables and connections