

KAM

INSTRUCTION MANUAL

DMX Star Cluster Ultimate

Multi Star Cluster effect laser with remote control

M A N U A L V E R S I O N 1 . 0

Four different cluster effects in one unit!
Kaleido, 3D, Firework and Cluster effects
Each effect selectable via the wireless remote control
50mW @ 532nm green laser / 100mW @ 650nm red laser
Multiple red and green laser point effects
Built-in high speed stepping motor / High-efficiency optical system
DMX512, Sound-to-Light / Auto-Run modes
Built-in selectable programs and patterns
Tough metal chassis and adjustable hanging bracket
Key operated power control

For the latest instruction manual updates and information on the entire Kam range visit:

www.kam.co.uk

Kam products are manufactured by: **Lamba plc**, Unit 1, Southfields Road, Dunstable, Bedfordshire, United Kingdom LU6 3EJ
Telephone: (+44) (0)1582 690600 • Fax: (+44) (0)1582 690400 • Email: mail@lambapl.com • Web: www.lambapl.com

DMX Star Cluster Ultimate

The supreme Star Cluster with remote control

Thank you for purchasing this product, we are sure that it will serve you for many years to come. To optimise the performance of this product, please read these operating instructions carefully to familiarise yourself with the basic operations of this unit. This unit has been tested at the factory before being shipped to you.

Unpacking

Please unpack your new product carefully, your new product should reach you in perfect condition. Please check that no damage has occurred during transit. If any damage is found, do not operate your unit. Please contact the retailer you purchased it from immediately.

Packing list

- 1 x laser show system
- 1 x wireless remote control
- 1 x AC mains power cable
- 1 x DMX signal cable
- 1 x instruction manual / 1 x Class 3b laser guide

Safety

If there is any damage to the mains cable do not use the device. Always disconnect the unit from the mains supply when carrying out any servicing or cleaning of the unit. To prevent or reduce the risk of electrical shock or fire, do not expose this unit to high temperature, rain or moisture. When cleaning the laser aperture, please use a soft cloth. There are no serviceable parts. Please have all servicing and adjustments made by a qualified service engineer. This appliance is to be used by qualified personnel only.

Laser Class 3B product. National regulations must be adhered to at all steps of installation. (In Germany apply DIN 56912 and BGVR LASER. Note: additional regulations may apply). Unintended reflections of the laser beam from reflective or metallic surfaces can be dangerous. Visible and invisible laser light direct beams can damage the human eye, do not look at any laser light directly.

Laser radiation warning

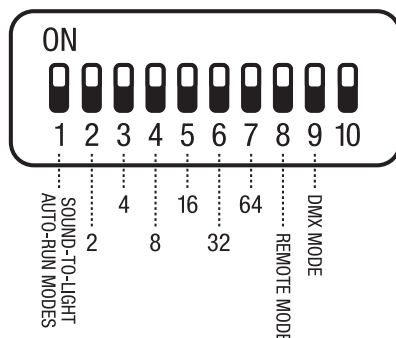
This unit uses diode lasers. This is CLASS 3B laser product. Avoid exposure to eyes. Never open the laser diode box, please refer unit to a qualified engineer for servicing or repairs.

Installation

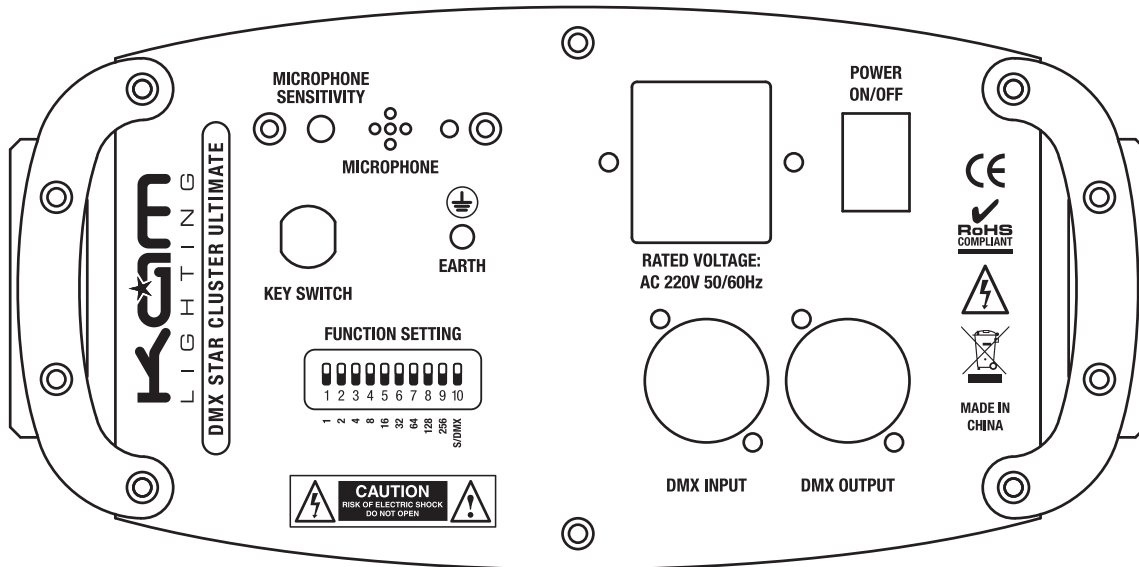
Remove anything covering the laser aperture. Plug in the power supply, the unit should now be operative and will self-test for a few seconds depending on which mode the unit is set for.

Dip switch setting

Switches 1-7 are used for the unit address code. Switch 8 is used for remote control mode. Switch 9 is used for setting either Sound-to-Light, Auto-Run and DMX512 modes.



Kam DMX Star Cluster Ultimate dip switch settings



Kam DMX Star Cluster Ultimate rear panel controls

Wireless remote control mode

To activate the remote control feature, set dip switch 8 to the ON position.

Button A: Forward through preset programs

Button B: Rewind through preset programs

Button C: Unit On/Off

Sound-to-Light / Auto-Run mode

To activate the Sound-to-Light/Auto-Run feature, set dip switch 9 to the ON position. Then set dip switch 1 to the ON position for the Auto-Run mode and to the OFF position for Sound-to-Light mode. Adjust the microphone sensitivity on the rear of the unit, this enables the unit to react to any strong bass sound.

DMX512 mode

Connect a DMX controller to the XLR DMX input on the rear of the unit. To activate the DMX512 feature, set dip switch 9 to the OFF position. Set dip switches 1, 2, 3, 4, 5, 6 and 7 to make the unit's DMX address. It's original address is 001 - DMX512 control mode. The unit has 5 channels which are listed in the table below.

Channels		DMX512 value	Description
1	Control mode	0-54	Laser off
		55-109	Sound-to-Light mode
		110-164	Auto-Run mode
		165-219	Remote Control mode
		220-255	Manual mode
2	Rotation	0-100	Anti-clockwise
		101-255	Clockwise
3	Speed	0-255	10 levels from slow to fast
4	Effect	0-255	8 effects
5	Colours	0-70	Red laser
		71-140	Green laser
		141-255	Red and green laser

Technical specifications

Green laser: **50mW @ 532nm**

Red laser: **100mW @ 650nm**

Modes: **DMX512 / Sound-to-Light / Auto-Run**

DMX channels: **5**

DMX input: **XLR**

Mode selection: **dip switch**

Mains input power: **AC 220-240V~50/60Hz**

Power consumption: **30V max**

Operating temperature: **20°C - 35°C**

Storage temperature: **20°C - 80°C**

Due to continuous product development, specifications and appearance are subject to change.
If this product is ever no longer functional please take it to a recycling plant for environmentally friendly disposal.

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