

KAM

INSTRUCTION MANUAL

DMX Star Cluster 3D

Three dimensional DMX laser effect

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

The ultimate Star Cluster! 3D version of the best selling laser effect
Multiple 100mW red and 40mW green laser points
Three dimensional laser effect to create endless show creation possibilities
Built-in high speed stepping motor
High-efficiency optical system
Sound-to-light sensitivity control with animated patterns
5 channel DMX operation / XLR DMX in and out
10 point dip switches
Tough all metal chassis with adjustable hanging bracket
Key operated power control
Rated voltage: 220-240V AC / Rated frequency: 50/60Hz
Laser wavelength: 100mW/650nm | 400mW/532nm

www.kam.co.uk

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.

Kam DMX Star Cluster 3D

Three dimensional DMX laser effect

INTRODUCTION

Thank you for purchasing the Kam DMX Star Cluster 3D. To optimise the performance of this product, prior to use, please read these operating instructions carefully to familiarise yourself with the basic operations of this unit. The Kam DMX Star Cluster 3D is ground breaking laser effect that will excite both you and your audiences alike. Please keep these instructions in a safe place for future reference. This unit has been tested in the factory before being shipped to you. There is no assembly required.

WARNINGS

To prevent or reduce the risk of electrical shock or fire, do not expose this unit to high temperature, rain or moisture.

Laser Class 3B product. National regulations must be adhered to at all steps of installation. (In Germany apply DIN 56912 and BGR 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.

When cleaning the laser aperture, please use a soft cloth.

There are no serviceable parts in the laser please have all servicing and adjustments made by a qualified service engineer

This appliance is to be used by qualified personnel only.

LASER RADIATION WARNING

This unit uses diode lasers in green and red. 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.

FEATURES

Bright red and green laser
Red Laser: 100mW@650nm / Green laser: 40mW @532nm
Built-in high speed stepping motor
High-efficiency optical system
Compatible with the international standard DMX512 signal
Revolves through the effect lens to create grid style laser
Input power: AC 220~240V 50/60Hz
Power consumption: Max. 30VA
Operating temperature: 20°C to 35°C
Storage: -20°C to 80°C (keep in a dry space for indoor use only)

UNPACKING YOUR NEW KAM PRODUCT

1. Carefully inspect your laser as you unpack it. If any damage is evident, please notify the supplier you purchased the unit from immediately. For safety reasons do not use the unit if any damage has occurred during transportation.

PACKING LIST

1 x laser show system
1 x AC plug cord
1 x DMX signal cable
1 x user instruction manual

OPERATING INSTRUCTIONS

REAR PANEL FUNCTIONS

1. Mains on/off switch
2. Safety key switch
3. Mains fused IEC power input (240V)
4. LED display
5. 10 point dip switches
6. Microphone pick up
7. Microphone sensitivity adjustment
8. DMX input
9. DMX output

LED DISPLAY

The laser has several built in modes, these will be shown in the LED display as:

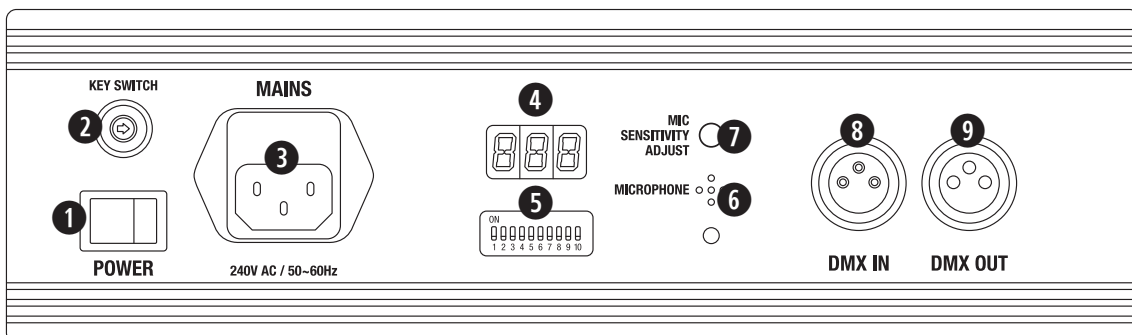
- Sud** Sound-to-light mode
Avt Auto play mode
NoI Laser off
001 DMX512 mode
000 Master / Slave mode for the Slave unit

DIP SWITCH SETTINGS

- All off Laser off
10 on Sound control mode
10+1 on Auto play mode
10 off DMX controlling mode
10+2 on Sets Slave unit for Master / Slave mode

SOUND ACTIVATION MODE

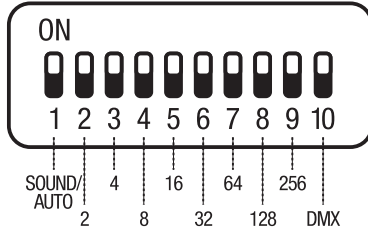
1. Choose a suitable position to install your laser
2. Set the 10th dip switch to the ON position.
3. Connect the power supply.
4. Play some music, whilst setting the sensitivity adjustment to get the best effect. The when the knob is turned to the left, sensitivity is at minimum, turn clockwise to increase the sensitivity.



Kam DMX Star Cluster 3D rear panel

DMX 512 MODES

1. Whilst connected to an international standard DMX512 controller -
2. Set the 10th dip switch to the OFF position.
3. Set the 1st to 9th dip switches as per the laser's original address (Max: 255).
4. The machine has 5 controlling channels, its channels are distributed as listed below.



Channel	DMX512 value	Description
Channel 1 - Mode	0-69	Laser off
	70~139	Sound control mode
	140~209	Auto run mode
	210~255	DMX512 mode initiates other DMX control channels
Channel 2 - Rotation	0~130	Clockwise
	131~255	Anticlockwise
Channel 3 - Speed	1~255	10 level speed (from slow to fast)
Channel 4 - Flash	0-255	10 level speed (from slow to fast)
Channel 5 - Colour	0-69	Red laser
	70~139	Green laser
	140~255	Red and green laser

MASTER SLAVE MODE (NO CONTROLLER)

Link two units together by setting one of the units (the Master) to 'sud', then set the Slave unit's dipswitches to 10+2, this will display 000 in the LED display. Link the units using a DMX cable (3pin XLR to 3 pin XLR).

Please note this feature is only available on units with a serial number after 8115501. This feature was not available prior to this serial number.

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

www.kam.co.uk

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