Kam

INSTRUCTION MANUAL

Kam LED Concept V2

Multicolour flower matrix lighting effect with DMX

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Due to continuous product development, please ensure that you have downloaded the latest instruction manual for this product from the Kam website at www.kam.co.uk

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

www.kam.co.uk

Thank you for purchasing this Kam 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. Please retain them for future reference. This unit has been tested at the factory before being shipped to you.

To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture. To prevent a fire hazard, do not expose the unit to any naked flame sources. Unplug this apparatus during lightning storms or if it is unlikely to be used for long periods of time.

When installing the unit, please ensure you leave enough space around the unit for ventilation. Slots and openings in the unit are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered.

The unit is powered by mains electricity, always handle the power cable by the plug. Never pull out the plug by pulling on the cable. Never touch the power cable when your hands are wet as this could cause an electric shock. Do not tie a knot in the cable. The power cable should be placed such that it is not likely to be stepped on. A damaged power cable can cause a fire or give you an electrical shock. Check the power cord periodicaly, if you ever find that it is damaged, replace it before using the unit again. Contact your retailer for a replacement.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit is to be used meets the required written on the unit.

The lightning flash symbol inside a triangle is to alert the user to the presence high voltage within the unit's enclosure that may be of sufficient power to constitute a risk of electrical shock to persons.
Caution: to prevent the risk of electric shock, do not attempt to open the unit. No user-serviceable parts inside. Refer all servicing to qualified service personnel.
The exclamation mark inside a triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

Select the installation location of your unit carefully. Avoid placing it in direct sunlight or locations subject to vibration and excessive dust. Do not use the unit where there are extremes in temperature (below 41ºF / 5ºC or exceeding 95ºF / 35ºC).

Unpacking and safety 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. 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 cleaning of the unit.

Manufacturer declarations
In compliance with the following requirements: **RoHS Directive (2002/95/EU)** and **WEEE Directive (2002/96/EU).**
If this product is ever no longer functional please take it to a recycling plant for environmentally friendly disposal.

CE declaration of conformity
R&TTE Directive (1999/5/EU), EMC Directive (2004/108/EU), Low Voltage Directive (2006/95/EU).
The declarations are available on application from certification@lambaplc.com
Before putting the devices into operation, please observe the respective country-specific regulations.

Installation
Unless it has already been assembled prior to shipping, attach the hanging bracket to the unit via the screw holes. Ensure that the unit is firmly fixed together to avoid vibration during operation. Make sure that the structure that you attach the light to is secure and able to support a weight of 10 times of the unit's own weight. Always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture. The equipment must be fixed by professionals and must be attached in a position that is out of the reach of unqualified personel.

Cleaning
The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimise light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. Always dry the parts carefully.

Operation

There are three ways to operate this unit:

A. Master/Slave operation

B. Sound activated (Sound-to-Light) and Auto mode

C. Via a universal DMX controller

A. Master/Slave operation

Multiple units can be linked together in a daisy chain and operated in Master/Slave mode to perform
pre-programmed lighting shows triggered by music. Please use a 3 pin XLR cable/plug when connecting multiple units together in Master/Slave mode. In Master/Slave mode please refer to the DMX settings below:

Master unit: when working in Auto or Sound control mode operation.
Slave units: the DMX start address MUST be set to 001 (the first dipswitch should be set to ON, all others should be set to OFF).

B. Sound activated (Sound-to-Light) and Auto mode

To operate the unit in Sound activated mode, set dipswitch 10 to ON. Dipswitches 1-6 set the speed.
All other dipswitches should be set to OFF. Use the Mic Senstivity to change the unit's sensitivity to the music or sound.

To operate the unit in Auto mode, set dipswitches 9 and 10 to ON. Dipswitches 1-6 set the speed (1 = slow / 6 = fast).
All other dipswitches should be set to OFF.

C. Universal DMX controller operation

When using a universal DMX controller to control a chain of units, you have to set the DMX address using the dipswitches from 1 to 9 to make sure all the units will receive its DMX signal.

Please refer to the following diagram to understand how to address your DMX512 system in binary code.

DMX512 address chart

Dip-switches	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	#10
Value	1	2	4	8	16	32	64	128	256	2 light show

DMX512 configuration chart

Function	Dipswitches									
	1	2	3	4	5	6	7	8	9	10
Sound	Use the Mic Senstivity knob to adjust the senstivity						-	-	0	1
Auto	Speed selection (slow to fast)						-	-	1	1
DMX512	Set DMX address for DMX mode									0
Channel 1	11~200	DMX Auto								
	201~255	DMX Sound								
Channel 2	1~255	Speed (slow to fast)								
Channel 3	11~255	Strobe (slow to fast)								
Channels 4~10	0~255	Single-head gobo control								
Channel 11	0~255	All gobos control								
Master	Auto / Sound-to-Light									
Slave	1	0	0	0	0	0	0	0	0	0

Note: the strobe effect is only controllable for channels 4 to11.

Technical specification & features

Kam LED Concept V2
Flower matrix lighting effect with DMX

Multi-colour RGBW LED (red, green, blue and white)
Extreme wide angle flower lighting effects
Powerful multi-beam spinning lighting effects
Matrix patterns utilising LED technology
Wide angle Fresnel lens
Sound-to-Light mode via built-in microphone
Adjustable microphone sensitivity
Auto/standalone mode
DMX mode
Master/Slave mode
Tough metal chassis
Adjustable metal hanging bracket
Safety chain loop
IEC mains input
Dimensions (WxHxD): 240 x 205 x 270mm (not including bracket)
Weight: 3.1Kg
Fan cooled operation
Voltage: AC220～240V / 50HZ
Power: 30w
LED: red 84 pcs / green 84 pcs / blue 84 pcs / white 42 pcs
Fuse: 1A
Control signal: DMX signal
Channels: 11 channels
Dimensions: 305 x 280 x 315mm
Weight: 3.1Kg