Kam

INSTRUCTION MANUAL

LED Colourbeam 6 DMX
6 lens LED flower effect with DMX

MANUAL VERSION 1.0

RGB lighting effect that produces stunning patterns
Multi red, green and blue high power LEDs
Equivalent to a halogen lamp lighting effect
6 angled glass lenses for dispersion
Motor controlled moving light beams
Sound-to-Light and DMX modes
4 channel DMX512 operation
No fan due to cool LED operating temperature
Metal chassis and adjustable hanging bracket
Mains fused IEC

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

www.kam.co.uk

Kam LED Colourbeam 6 DMX

6 lens LED flower effect with DMX

Thank you for purchasing this product, we hope that it serves 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.

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

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.

Safety

This unit operates on 240V AC. This appliance must be earthed.
This product is for indoor use only, do not expose to rain or moisture. Always store unit in a dry place.
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.
The unit must not be connected to dimming-packs.
Never look directly into any light source as this may damage eyes.
There are no user serviceable parts in this unit, please consult your retailer for any repair work.

Operation

To prolong the life of your unit it is recommended that the unit is not for constant us. Leaving a break between long periods of use will increase the life span of your unit.

When choosing the installation position, please make sure that the device is not exposed to extreme temperature, moisture, and that no air ways are blocked, keep a good distance from materials etc.

When using smoke machines/foggers, make sure that the device is never exposed to the direct smoke jet and is installed at distance of 0.5 meters away from other surfaces. Always fix the fixture with an appropriate safety-chain. The maximum ambient temperature Ta = 45°C must never be exceeded.

Installation / Overhead rigging

Caution: any units installed in an overhead position may cause severe injuries if not installed correctly or safely. Please ensure the mounting structure is secure and stable, and is capable of holding 10 times the weight of the unit to be installed. Always use suitable hanging/mounting brackets or clamps. Always fit a suitable safety chain.

If in any doubt about installation please contact a qualified technician.

Replacing the fuse

If the fuse of the unit fuses, only replace the fuse by one of the same type and rating.
Before replacing the fuse, unplug mains lead.
Step 1: Open the fuse holder on the rear panel with a screwdriver.
Step 2: Remove the old fuse from the fuse holder.
Step 3: Install the new fuse in the fuse holder.
Step 4: Replace the fuse holder in the housing.
Should you need any spare parts, please use genuine parts.
Should you have further questions, please contact your retailer or local Kam Service Station.

Basic operation

After connecting the unit to the mains it will start operating. You can adjust the microphone sensitivity with the rotary control on the rear panel. The LCD display lights and you can choose between Stand Alone mode, Sound Activation mode (Sound-to-Light), Auto mode, Master/Slave mode and DMX512 mode.

Sound-to-Light operation

Select Sound mode (SND) with the Mode button and press Enter to confirm. The unit will now respond to any strong bass sound. Adjust the senstivity of the microphone using the Mic Sensitivity control on the rear of the unit.

Auto operation

Select Auto mode (AUTO) with the Mode button and press Enter to confirm your choice. The unit has built-in programs and will cycle through these programs in Auto mode. The speed of the programs can be adjusted using the Up and Down buttons on the rear of the unit. The range is S001 (fast) to S100 (slow). Press the Enter button.

DMX operation

The LED display allows you to assign each unit's DMX address, which is defined as the first channel from which the unit will respond to the external controller.
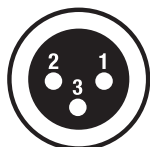
DMX addressing

Press the Mode button until the display shows 512. Set the desired address via the Up or Down buttons, this will show A followed by the DMX channel address number Press the Enter button and the display will change to D followed by the address number you have chosen. There are 512 DMX channels to choose from and all units with the same address code will operate via an external DMX controller at the same time. For individual control, each unit needs to be set with it's own unique address.

DMX512 connection / connection between units

All DMX cables must be wired correctly, with suitable 2 core screened cable. The signal lines must be separate and no cables should be bridges. Please check this if you are trying to use a microphone cable as these are often balanced leads and will not work for DMX purposes. If you are using a DMX controller with this unit, you can connect the DMX output of the controller directly into the DMX input of the first unit in the DMX chain.

DMX output / XLR socket   DMX input / XLR plug

1. Ground   /   2. Signal (-)   /   3. Signal (+)

Master/Slave explained

The Master/Slave operation enables several devices to be synchronised and controlled by one Master device. On the rear panel of the unit you will find XLR input and XLR output sockets which can be used for linking devices. Choose the device which is to control the effects. This device will work as the Master device and controls all other connected units, these are known as the Slaves.

Building a serial DMX chain

Connect the DMX output of the first unit in the DMX chain to the DMX input of the next unit. Always connect one output with the input of the next fixture until all units are connected.

Master/Slave operation

You can link a maximum of 32 devices. Choose the device which will serve as the Master. On this unit press the Mode button to choose Sound mode or Auto mode, then press the Enter button to confirm.

To set the Slave devices press the Mode button to choose DMX512 mode, then press the Enter button to confirm your choice. Select the starting address via the Up and Down buttons. Select A1, then press the Enter button to confirm your choice. Please note only one Master unit should be in the chain, all other units must be set to Slave DMX addressing.

Channel	DMX value	Description
Channel 1 - colour settings	000 – 009	Blackout
	010 – 019	Red
	020 – 029	Green
	030 – 039	Blue
	040 – 049	Cyan
	050 – 059	Magenta
	060 – 069	Yellow
	070 – 079	White
	080 – 139	Single color chase
	140 – 199	Multi color chase
	200 – 224	Automatic (fast)
	225 – 249	Automatic (slow)
	250 – 255	Sound control
Channel 2 - speed	000 – 255	Increasing speed of chaser (Channel 1: 080-199)
Channel 3 - strobe	000 – 004	Off
	005 – 254	Flash with increasing speed
	255 – 255	Sound controlled flash
Channel 4 - rotation	000 – 004	No rotation
	005 – 127	Clockwise rotation increasing speed
	128 – 133	Stop
	134 – 255	Counter-clockwise rotation increasing speed

Technical specifications
Power supply: **230V AC, 50Hz ~**
Power consumption: **55W**
Number of DMX channels: **4**
DMX512 connection: **3 pin XLR**
Sound control: **via built-in microphone**
Maximum ambient temperature Ta: **45°C**
Maximum housing temperature TB (steady state): **50°C**
Minimum distance from flammable surfaces: **0.50m**
Minimum distance to lighted object: **0.10m**
Fuse: **F1A, 250V**
Number of 3W LEDs: **3**
Beam angle: **140°**
Dimensions (LxWxH): **175 x 320 x 310mm**
Weight: **3.5Kg**

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