Kam

INSTRUCTION MANUAL

LED CONCEPT
RGBW flower lighting effect with DMX

MANUAL VERSION 1.0

Date 20-01-2011

Powerful multi-beam spinning and rotating lighting effect
Matrix pattern effect utilising LED technology
Wide angle Fresnel lens
256 bright RGBW 5mm LEDs
Sound-to-Light stand alone & DMX modes
Master/Slave function
Individual control for each LED
4 or 256 DMX channels
Plug & Play operation
Safety mounting loop
Tough metal chassis

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. After you have read the instructions, 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.

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 intended 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.
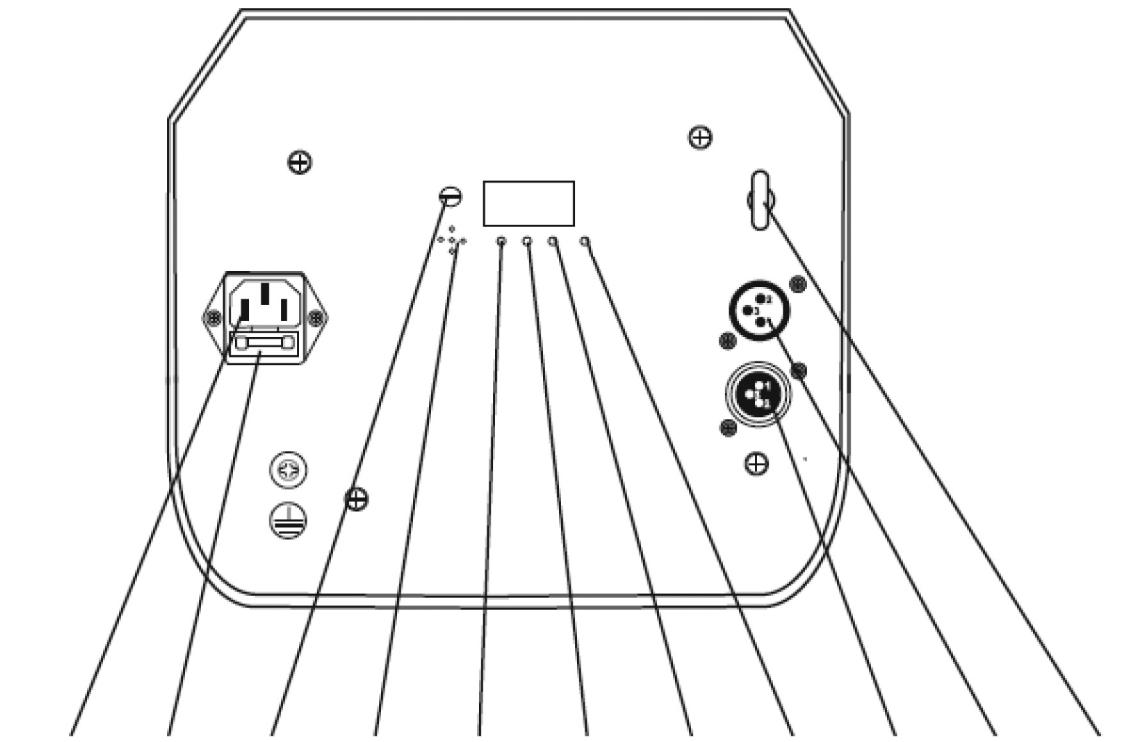
Any modification carried out on the unit may invalidate the unit's warranty.

If applicable, only use the stand, tripod or bracket specified or sold with the apparatus.

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 servicing or cleaning of the unit.

The serial number for this equipment should be located on the rear or underside of the unit. Please make a note of this number as you will need it for your warranty, it is a good idea to keep a copy of the serial number for your own records.

1.   2.   3.   4.   5.   6.   7.   8.   9.   10.   11.

1. **Mains input**
2. **Internal fuse**
3. **Variable sound sensitivity adjustment**
4. **Microphone pick up**
5. **Mode button**
6. **Up button**
7. **Down button**
8. **Enter button**
9. **Dmx input**
10. **Dmx output**
11. **Safety chain anchor**

OPERATION
Using the unit in stand alone mode with no controller

Automatic Mode
This fixture has a built-in automatic program. Mode To access this,
1) Press <MODE> until "p --" is displayed, use the up down buttons until p*1is displayed then Press Enter to confirm.
2) To adjust the speed of the automatic program. Press <MODE> until the display reads "S--". , then press Enter.
3) Use <UP> and <DOWN> to select the operating speed of the program (Value:1-100, Slow ~ Fast) , then press Enter to confirm.

Sound Mode
This fixture has a built-in sound activated program mode
1) Press <MODE> until "p--" is displayed. use the up down buttons until p*2is displayed Then press Enter to confirm.
2) Use the sensitivity control dial to adjust the sound sensitivity. anti clockwise zero clock wise 0-100%
Value:1-100, Slow ~ Fast), then press Enter to confirm.

Master/Slave Operation without DMX controller

This mode allows for multiple units slave fixtures to follow a single master fixture.

1) Set the master fixture to one of the 2 standalone operating modes: automatic or sound mode.

3) To Set the slave units press the <MODE> button until 4ch is displayed

4) Press enter to confirm

5) The display will change to 512 use the up / down buttons to select 001, this will set the DMX starting address to "001". Press enter to confirm display will show d--1

PLEASE NOTE ONLY ONE MASTER UNIT MUST BE USED. ALL OTHERS MUST BE SET TO SLAVE

Master/Slave Operation with DMX controller

Each unit uses 4 DMX channels

To set the DMX address of the unit press the <MODE> button until 4ch is displayed, press the enter button to confirm

The display will change to d*** 001-512 press the up/down buttons to select the desired DMX starting address i.e. 001 press enter to confirm.

If several units are to be controlled exactly the same. Set the DMX address on all units to the same value

If individual control of each unit is required

Each unit must have its own DMX address, this must be at least 4 channels apart and no address must cross over e.g. set unit 1 to 001 unit 2 to 005 units 3 to 009 and so on.

There is also a 256 channel DMX option

This will enable control of each of the individual 256 LEDs

As the LEDs are mounted as a 16 x 16 matrix board stunning effects are programmable with DMX controllers and DMX software (not included) plotting of individual LEDs is possible giving many programming options. This is ideal for the install application or pro DMX user.

DMX value chart for 4 channel DMX operation

CHANNEL	VALUE	FUNCTION	
1	000	Black out	When CH 2 @ 000-010
	001-216	Select the Scenes (Total 204)	
	217-255	All the LEDs on	
2	000-010	No Function	
	011-020	Program 1	
	021-030	Program 2	
	031-040	Program 3	
	041-050	Program 4	
	051-060	Program 5	
	061-070	Program 6	
	071-080	Program 7	
	081-090	Program 8	
	091-100	Program 9	
	101-110	Program 10	
	111-120	Program 11	
	121-130	Program 12	
	131-140	Program 13	
	141-150	Program 14	
	151-160	Program 15	
	161-170	Program 16	
	171-180	Program 17	
	181-190	Program 18	
	191-200	Program 19	
	201-210	Program 20	
	211-220	Program 21	
	221-230	Program 22	
	231-240	Program 23	

	241-250	Program 24	
	251-255	Sound Active	
3	000-255	Programs Speed: Slow ~ Fast	
4	000-010	No Function	
	011-255	Flash speed: Slow ~ Fast	

256 channel mode:

Under this mode, each channel controls each LED off/on.

Each channel value 000-127 for each LED off, 128-255 for each LED on. Total 256 channels for 256 pcs LEDs.

CHANNEL	VALUE	FUNCTION	LED COLOUR
1	000-127	No. 1 LED Off	Blue
	128-255	No. 1 LED On	
2	000-127	No. 2 LED Off	White
	128-255	No. 2 LED On	
3	000-127	No. 3 LED Off	Blue
	128-255	No. 3 LED On	
4	000-127	No. 4 LED Off	White
	128-255	No. 4 LED On	
5	000-127	No. 5 LED Off	Blue
	128-255	No. 5 LED On	
6	000-127	No. 6 LED Off	White
	128-255	No. 6 LED On	
7	000-127	No. 7 LED Off	Blue
	128-255	No. 7 LED On	
8	000-127	No. 8 LED Off	White
	128-255	No. 8 LED On	
9	000-127	No. 9 LED Off	Blue
	128-255	No. 9 LED On	
10	000-127	No. 10 LED Off	White
	128-255	No. 10 LED On	
11	000-127	No. 11 LED Off	Blue
	128-255	No. 11 LED On	
12	000-127	No. 12 LED Off	White
	128-255	No. 12 LED On	
13	000-127	No. 13 LED Off	Blue
	128-255	No. 13LED On	
14	000-127	No. 14 LED Off	White
	128-255	No. 14 LED On	
15	000-127	No. 15 LED Off	Blue
	128-255	No. 15 LED On	
16	000-127	No. 16 LED Off	White
	128-255	No. 16 LED On	
17	000-127	No. 17 LED Off	Red
	128-255	No. 17 LED On	
18	000-127	No. 18 LED Off	Green
	128-255	No. 18 LED On	
19	000-127	No. 19 LED Off	Red
	128-255	No. 19 LED On	
20	000-127	No. 20 LED Off	Green
	128-255	No. 20 LED On	
21	000-127	No. 21 LED Off	Red
	128-255	No. 21 LED On	
22	000-127	No. 22 LED Off	Green
	128-255	No. 22 LED On	
23	000-127	No. 23 LED Off	Red
	128-255	No. 23 LED On	
24	000-127	No. 24 LED Off	Green
	128-255	No. 24 LED On	
.		.	
.		.	
.		.	
.		.	

251	000-127	No. 251 LED Off	Red
	128-255	No. 251 LED On	
252	000-127	No. 252 LED Off	Green
	128-255	No. 252 LED On	
253	000-127	No. 253 LED Off	Red
	128-255	No. 253 LED On	
254	000-127	No. 254 LED Off	Green
	128-255	No. 254 LED On	
255	000-127	No. 255 LED Off	Red
	128-255	No. 255 LED On	
256	000-127	No. 256 LED Off	Green
	128-255	No. 256 LED On	

Technical specification

Power supply: 100 -240 V AC, 50/60 Hz ~
Power consumption: 95 W
DMX control channels: 4/256
DMX512 connection: 3-pin XLR
Number of LEDs: 256
Type of LEDs: 5 mm
Beam angle: approx. 36°
Dimensions (LxWxH): 305 x 275 x 280 mm
Weight: 3.5 kg
Maximum ambient temperature Ta: 45° C
Maximum housing temperature TC (steady state): 50° C
Min. distance from flammable surfaces: 0.5 m
Min. distance to lighted object: 0.1 m
Fuse: F 2 A, 250 V
Please note: Every information is subject to change without prior notice ©