

KAM

INSTRUCTION MANUAL

Kam MicroGlide

Multicolour sweeping beam effects

M A N U A L V E R S I O N 1 . 0
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For the latest instruction manual updates and information on the entire Kam range visit:

www.kam.co.uk

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If this product is ever no longer functional please take it to a recycling plant for environmentally friendly disposal.

Due to continuous product development, specifications and appearance are subject to change.

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Thank you for purchasing this Kam product, we are sure that it will serve you for many years to come.

To optimise it's performance, please read these instructions carefully to familiarise yourself with the basic operations of the 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 the mains, 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 periodically, 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 requirements of 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 41°F / 5°C or exceeding 95°F / 35°C).

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)**.
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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@lambapl.com

Before putting the devices into operation, please observe the respective country-specific regulations.

Overhead rigging

Important - the installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and /or damage to property. Overhead rigging required extensive experience. Working load limits should be respected, certified installation materials should be used, the installed unit should be inspected regularly for safety.


- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the unit in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed **at least 50cm** from surrounding walls
- The device should be installed out of reach of people and outside of areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold minimum point load of 10 times the device`s weight.
- The device should be well fixed; a free swinging mounting is dangerous.
- Do not cover any ventilation opening as this may result in overheating
- Before first time use, the unit should be inspected for safety. Inspection the unit regularly every year.

Packing list

Lighting unit and bracket
Power cable
Instruction manual
Warranty

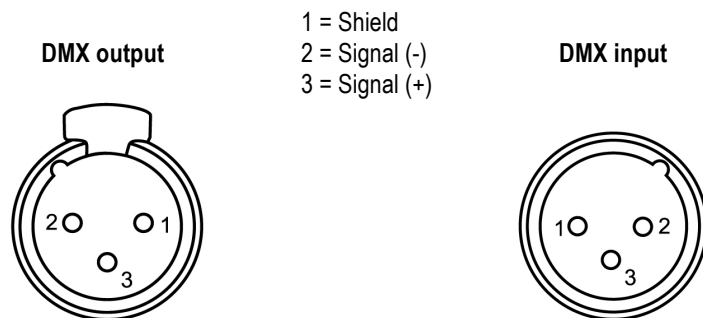
AC power

The unit is supplied with a power plug appropriate to its voltage. Should any other connections be required they must be carried out with the following configuration:

Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/green	Green	Earth	

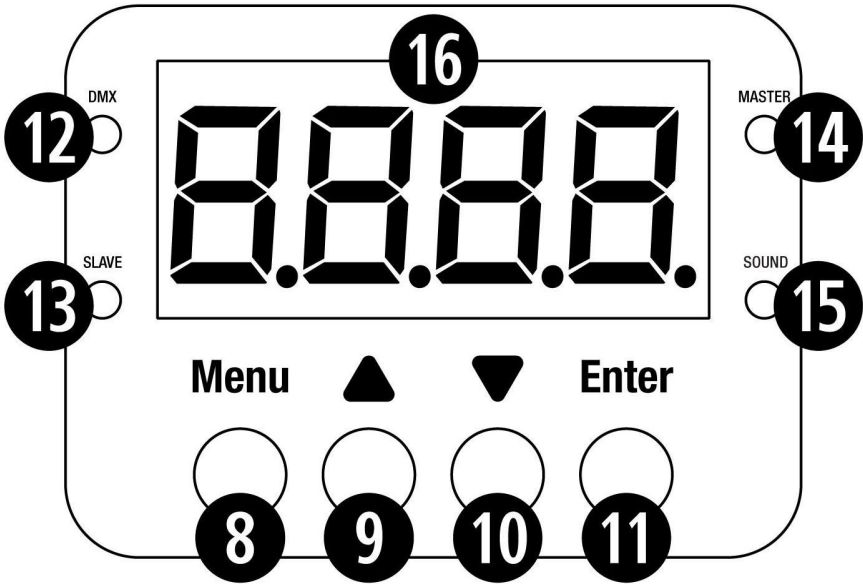
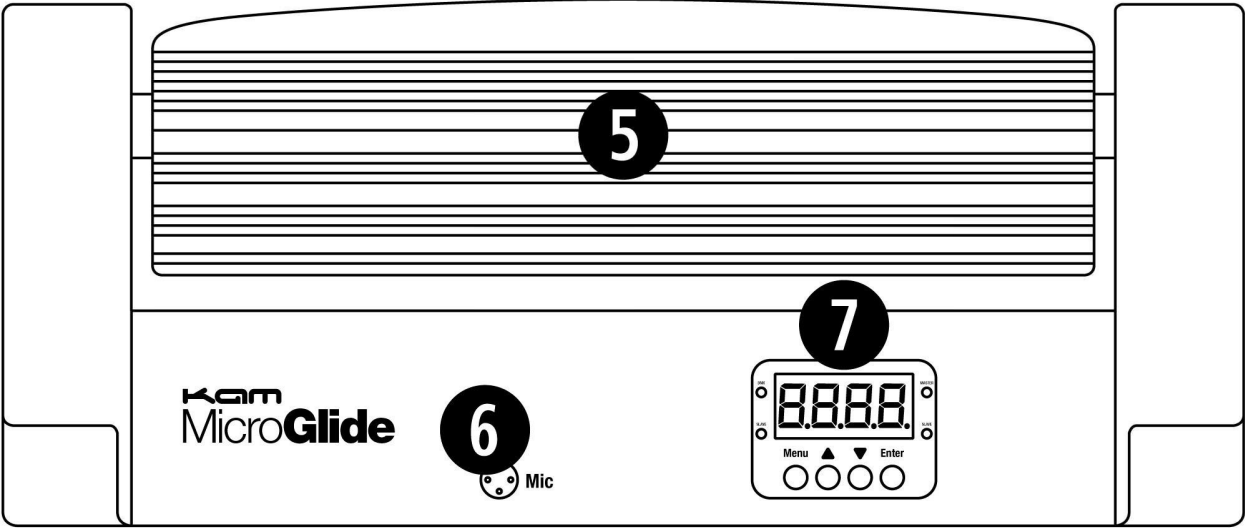
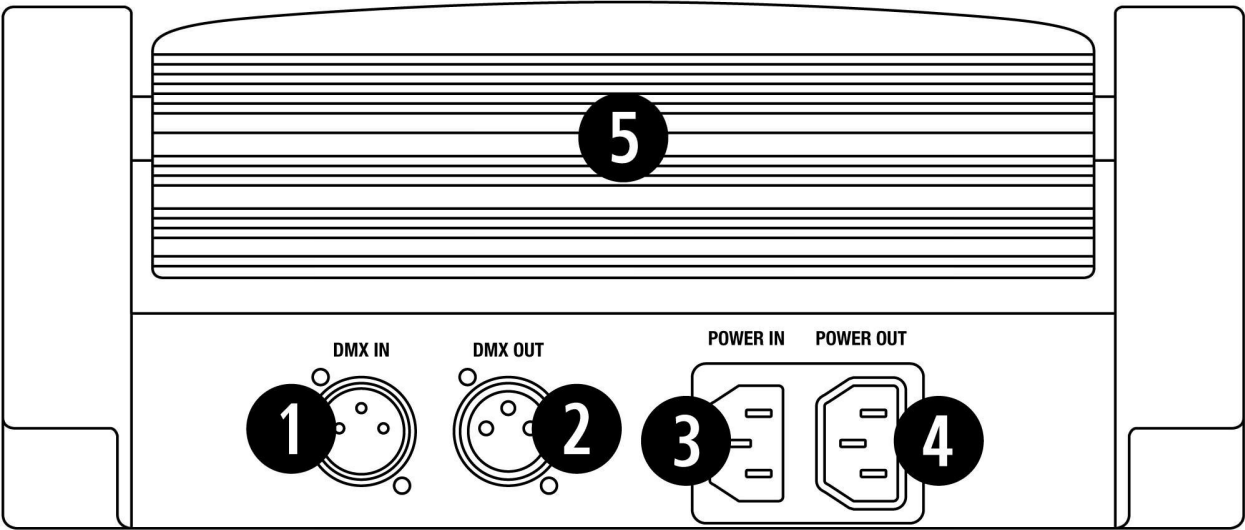
DMX-512 connection

If you are using a standard DMX controller, you can connect the DMX output of the controller directly to the DMX input of the first unit in a DMX chain. If you wish to connect a DMX controller with other XLR outputs you will need to use adapter cables.



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

Unit features and connections



Key to rear panel features

Number	Feature	Function
1	DMX input	3 pin XLR connector for DMX512 input communication
2	DMX output	3 pin XLR connector for DMX512 output communication
3	Power input	Mains power input IEC socket
4	Power output	IEC connector socket for connecting multiple units for power
5	Rotating arm	Lights are mounted on these arms for projection
6	Microphone sensor	Sensor for Sound-to-Light operation
7	Control panel	Section for controlling unit
8	Menu button	Cycles through the different functions
9	Menu UP button	Increases parameter values
10	Menu DOWN button	Decreases parameter values
11	ENTER button	Selects the desired function
12	DMX LED	Illumination confirmed as DMX
13	Slave mode LED	Illumination confirms unit is in Slave mode
14	Master mode LED	Illumination confirms unit is in Master mode
15	Sound mode LED	Illumination confirms unit is in sound to light mode
16	LED setting display	Shows the various menus and selected functions

Function setting

Using the four function buttons on the rear of the unit you can set the operating mode of the unit. Press the **Menu** button to display the different functions (see table below for a description of the functions). Use the **Up** or **Down** arrow buttons to make your selection. When you have chosen your desired function, press the **Enter** button to confirm the change.

Menu display	Function
Addr	DMX address setting. This is changed using the Up or Down arrow buttons (A001-A512)
ChNd	Switches between 7 Channel and 13 Channel DMX operation
SLNd	NASt – denotes unit is in Master mode
	SLAu – denotes unit is in Slave mode
ShNd	Auto – Automatic mode scrolling through built in light shows
	SoUn – Sound to light mode with unit moving in time with the music
SoUn	on – Sound to light mode is switched on oFF – Sound to light mode is switched off
SenS	Sound sensitivity in sound to light mode (0 = off Least sensitive 1 = least sensitive. 100 = most sensitive)
Led	on – LED display remains on whilst the fixture is in use
	oFF – LED display goes blank whilst the fixture is in use.
dISp	no – LED displays in standard orientation
	yes – LED display reading is rotated 180 degrees for inverted mounting
1tiL	no – tilts front arm towards you as default. yes – tilts front arm away from you as default
2tiL	no – tilts rear arm towards you as default. yes – tilts rear arm away from you as default
test	Unit runs through test cycle
hoUr	Shows how many hours operation the unit has completed
uEr	Shows the version number of the unit
rSet	Resets the unit.

DMX address setting - When controlling the unit (or units) with a DMX controller, each one must be set with a specific DMX address. You can choose to set all units with the same DMX address or you can set every unit with its own DMX address. If all units are set with the same DMX address all units will be synchronised and operate in the same way.

If you set each unit with a different DMX address, they will receive the DMX signal from their own DMX address. You will now be able to control each unit individually. The DMX address that you set for each unit must be determined by the number of channels. This unit can be operated in either 7Ch or 13Ch mode, so for example if you wish to operate in 7Ch mode, you should set the starting address of the first unit to A001, the second unit must then be set to A008 (1+7), the third to A015 (8+7), the fourth to A022 (15+7) e.t.c.

7 Channel DMX control table

DMX channel		Value	Function
CH1		0-255	Tilt Motor 1 Movement 0°-135°
CH2		0-255	Tilt Motor 2 Movement 0°-135°
CH3		0-255	Dimmer 0-100%
CH4	Strobe	0-9	Off
		10-255	Strobe speed Slow-Fast
CH5	Preset Shows	0-7	Off
		8-17	Show 1
		18-27	Show 2
		28-37	Show 3
		38-47	Show 4
		48-57	Show 5
		58-67	Show 6
		68-77	Show 7
		78-87	Show 8
		88-97	Show 9
		98-107	Show 10
		108-117	Show 11
		118-127	Show 12
		128-136	Show 13
		137-146	Show 14
		147-156	Show 15
		157-166	Show 16
		167-176	Show 17
		177-186	Show 18
		187-196	Show 19
		197-206	Show 20
		207-216	Show 21
		217-226	Show 22
		227-236	Show 23
		237-246	Show 24
		247-255	Show 25
CH6	Show Speed	0-255	Fast – Slow
CH7		0-199	Nothing
		200-249	Resets All (after 3 second valid)
		250-255	Random sound activated mode

13 Channel DMX Control Table

DMX channel		Value	Function
CH1		0-255	Tilt Motor 1 Movement 0°-135°
CH2		0-255	Tilt Motor 2 Movement 0°-135°
CH3		0-255	Dimmer 0-100%
CH4	Strobe	0-9	Off
		10-255	Strobe speed Slow-Fast
CH5		0-255	LED 1 Dimmer 0-100%
CH6		0-255	LED 2 Dimmer 0-100%
CH7		0-255	LED 3 Dimmer 0-100%
CH8		0-255	LED 4 Dimmer 0-100%
CH9		0-255	LED 5 Dimmer 0-100%
CH10		0-255	LED 6 Dimmer 0-100%
CH11		0-255	LED 7 Dimmer 0-100%
CH12		0-255	LED 8 Dimmer 0-100%
CH13		0-199	Nothing
		200-249	Resets all after 3 seconds
		250-255	Random sound activated mode

Master/Slave operation

Connect the units in a Master/Slave chain via 3 pin DMX cables:

1. Connect the DMX output of the Master unit to the DMX input of the first Slave unit.
2. Next connect another DMX cable from the first Slave unit DMX output to the second Slave unit DMX input.
3. Continue in this fashion until all units are connected.
4. Set the Master unit to **NASt** and the second unit to **SLAu**
5. Slave unit will now follow the operation of the Master unit.

Product specification

Mains power / rated power	AC220~240V, 50/60Hz / 46w
Control modes	7 or 13 channel DMX512 / Auto / Sound-to-Light / Master/Slave
Beam angle	75°
Light source	8 x 3w high power LED's (2 x red, 2 x green, 2 x blue, 2 x white)
Operating temperature	0°C to 40°C
DMX512 connections	3 pins XLR male/female
Dimensions (WxDxH)	283 x 151 x 147mm (not including bracket)
Nett weight	2.5kg

Due to continuous product development, specifications and appearance are subject to change.