

Spin4

Multicolour sweeping beam effects

M A N U A L V E R S I O N 1 . 0
2 0 . 0 3 . 1 5

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 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 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. Please read and pay attention to all laser safety warning sticker labels on the unit.

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). 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.

- constraints and account operation, product execute and respectively operations

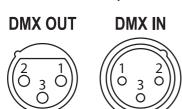
AC power

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.



XLR female XLR male 1 = ground 2 = minus signal (-) 3 = plus signal (+)

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. If you use a controller with 5 pin DMX connection you will need to use a 5 pin to 3 pin adapter.

Overhead rigging

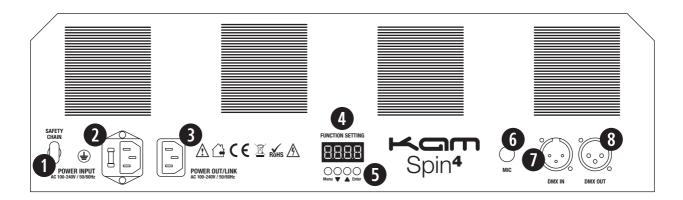
Important - the installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and /or damage to property. Overhead rigging required extensive experience. Working load limits should be respected, certified installation materials should be used,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

Quick Start Guide

After connecting your unit to the mains, use the Control menu on the rear panel of the unit to set the operating mode. Use the MENU button to make a function selection, then press ENTER to confirm it. Next use the UP and DOWN arrow buttons to refine your selection, then use the ENTER button to confirm your setting.

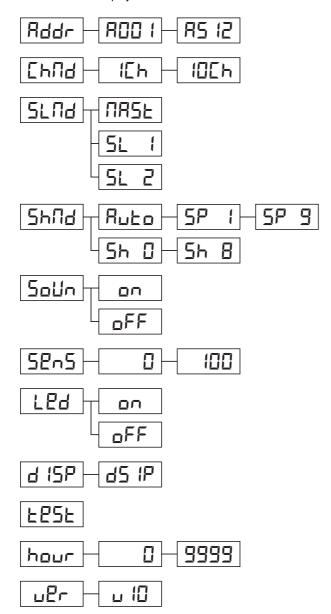


Key to rear panel

- 1. Safety chain eyelet used to attach safety rig between unit and rigging
- Mains power input IEC socket and integrated fuse holder. Connect the supplied IEC cable to the input and the mains
- 3. Mains power output/link IEC socket. Connect an IEC link cable to this output and to the next unit in a chain of units
- 4. LED display shows the various menus and the selected functions (see below table)
- 5. Function setting menu buttons used to select the different menu items
- 6. Microphone used for Sound-to-Light operation
- 7. DMX input 3 pin XLR interface for DMX connections
- 8. DMX output 3 pin XLR interface for DMX connections

Rear panel LED display - use the function setting menu buttons to select the different menu items

Start by pressing the Menu button to select the option you wish. Then press the Enter button to confirm your selection. Use the Up and Down buttons to refine your selection from the available options. The tables below show the menu structure and the functions of the display.



Display	Function
Addr	Set the DMX address for the unit. Use the Up and Down buttons to set.
ЕнПа	Set the DMX channel mode. Choose from 1 or 10 channels.
SLNd	Set the unit to Master/Slave mode. Choose Master, Slave 1 or Slave 2.
ShNd	Set the unit to Show mode. Set the pre-programmed show (from 0-8).
SP1 - SP 9	Sets the speed of the show. Speed setting from 1-9.
Solin	Set the unit to Sound-to-Light mode. Choose either On or Off.
5Pn5	Set the microphone sensitivity. Choose from 0(low) to 100(high) sensitivity.
FEq	Set the Control LED display to turn off automatically (OFF) or remain on (ON).
d 15P	Rotate the Control LED display 180°. Use when unit is mounted upside down.
£25£	Set the unit to run through a series of auto self tests.
hour	Unit runtime.
uer	Software version.

DMX512 operation

If you wish to operate the unit using a DMX controller, you will first need to set the DMX address to allow this. Using the above table as a guide, set the DMX address between 1-512.

- Press the Menu button and choose Addr
- 2. Press the Enter button
- 3. The address number will start to flash
- 4. Use the Up and Down buttons to make your address selection
- 5. Press the Enter button to confirm your choice

The tables on the following page show the functions of each DMX value for each channel (1 or 10 channel operation).

1 channel DMX operation (choose 用□□ f default address)

Channel	Value	Function
CH1 (008-255 can also be used with Sound-to-Light)	000-007	No Function
	008-037	Show 01
	038-067	Show 02
	068-097	Show 03
	098-127	Show 04
	128-157	Show 05
	158-187	Show 06
	188-217	Show 07
	218-247	Show 08
	248-255	Random show 1-8

10 channel DMX operation

Channel	Value	Function
1	000 - 255	Full dimmer 0 - 100%
2	000 - 255	Strobe, slow to fast
3	000 - 009	Stop
	010 - 120	Motor 1 clockwise run, fast to slow
	121 - 134	Stop run
	135 - 245	Motor 1 anticlockwise run, slow to fast
	246 - 255	Stop run
	000 - 008	No function
	009 - 024	R
4	025 - 041	G
	042 - 057	В
	058 - 074	W
	075 - 090	R+G
	091 - 107	R+B
	108 - 123	R+W
4	124 - 140	G+B
	141 - 156	G+W
	157 - 173	B+W
	174 - 189	R+G+B
	190 - 206	R+G+W
	207 - 222	R+B+W
	223 - 239	G+B+W
	240 - 255	R+G+B+W
5	000-255	Motor 2 run, same with CH3
6	000-255	Colour 2
7	000-255	Motor 3 run, same with CH3
8	000-255	Colour 3
9	000-255	Motor 4 run, same with CH3
10	000-255	Colour 4

Master/Slave operaton

You can link multiple units together in Master/Slave mode. To achieve this you will need to set the first unit in the chain as the **Master** unit and then set all other linked units as **Slave** units.

Using DMX cables, link the units from the DMX output of the first (**Master**) unit to the DMX input of the second (**Slave**) unit, then link the DMX output of the second unit to the DMX input of the third unit and so on.

Next set the first unit to be the **Master**:

- 1. Press the Menu button and choose 5L \(\Pi \)d
- 2. Press the Enter button
- 3. Set the unit to **TASE**
- 4. Press the Enter button to confirm your choice
- 5. Next set the unit to Show mode **5h11d** (and choose a show (0-8)

Next set the other units to be Slave mode:

- 6. Press the Menu button and choose 5L 11d
- 7. Press the Enter button
- 8. Set the units to 5L !
- 9. Press the Enter button to confirm your choice

All unit should now operate in Master/Slave mode where all units operate the same show as the first unit in the chain.

Technical specifications

Kam Spin4	
Mains power	AC 100-240V 50/60Hz
Mains connection	IEC mains input and output
Voltage	AC100-240V 50/60Hz
Control modes	DMX512 / Auto / Sound-to-Light / Master/Slave
Light source	4 x 10w CREE 4-in-1 LED
Colours	Red, green, blue and white
Control setting	4 buttons plus function setting LED display
Operating temperature	20~40°
DMX512 connections	3 pins XLR input (male) and output (female)
DMX512 channels	1/10
Dimensions (WxDxH)	515 x 140 x 230mm (not inc bracket)
Nett weight	5.1Kg