

# **ILINK RGY** Linkable tri-colour DMX laser effects

## MANUAL VERSION 2.0

17 / 01 / 11

100mW Red + 40mW Green / colour mixed to equal Yellow Plug & Play operation & built-in patterns Linkable as a kit in Master/Slave mode Auto, Sound-to-Light & DMX512 modes 10 channel DMX512 operation LED function display 3 pin XLR DMX connection Fan cooled operation Key operated safety control Safety mounting point Adjustable hanging bracket Tough metal chassis

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

## www.kam.co.uk

Kam products are manufactured by: Lamba plc, Unit 1, Southfields Road, Dunstable, Bedfordshire, United Kingdom LU6 3EJ Telephone: (+44) (0)1582 690600 • Fax: (+44) (0)1582 690400 • Email: mail@lambaplc.com • Web: www.lambaplc.com 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 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.

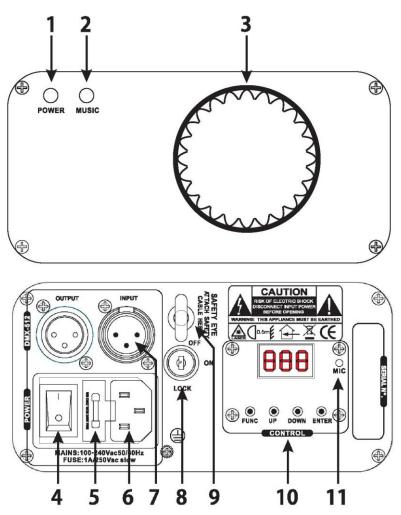
If applicable, only use the stand, tripod or bracket specified or sold with the apparatus.

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 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 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.





NO.	NAME	DESCRIPTION
1	Power LED	Indicates the fixture is switched on
2	Music LED	Synchronize to detected music signal
3	Laser Aperture	The laser effect output aperture. NEVER LOOK INSIDE THE FIXTURE THROUGH THIS APERTURE WHILE FIXTURE IS OPERATING.
4	Power Switch	Switch ON and OFF the fixture
5	Fuse Holder	Replace fuse with correct value if required
6	Main Power Input	IEC socket and integrated fuse holder.
7	DMX Input/Output	3 pins male/female XLR connector
8	Key switch	Safety key switch operates laser output
9	Safety eye	Attach the safety cable/chain
10	Control panel	To control the fixture with digital LED display, check more information on control & function
11	Microphone	To detect the music/sound signal

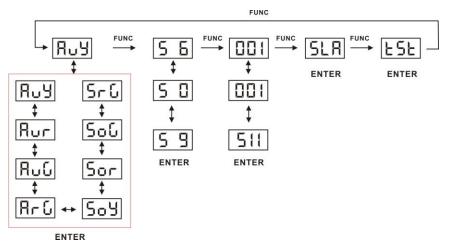
#### **Control & Function**

Regular breaks during operation are essential to maximize the life of this device as it is not designed for continual use.

Do not switch the unit on and off in short time intervals. Always unplug the unit when it is not used for a longer time or before replacing the bulb or start servicing. In the event of serious operation problems, stop using the fixture and contact your dealer immediately.

ATTENTION: Laser will be output from laser aperture in 5 seconds after the unit is powered on.

#### Operation



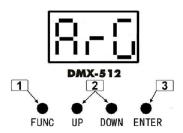
#### Standalone pre-program laser show

Press FUNC to enter MODE OPTION.

Till to LED panel shows either one of Auy, Aur, Aug, Arg, Soy, Sor, Sog, Srg.

Press UP or DOWN to select your favorite Stand Alone mode as above. Press ENTER to confirm the setting.

The laser is working in stand alone. Each time when you turn on your laser, you will have this confirmed laser show.



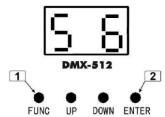
In the MODE OPTION setting, the stand alone laser show that you are going to choose is flashing. Press UP or DOWN to change stand alone laser show, you will have 8 different stand alone preprogrammed laser show. Their DISPLAY and EFFECT are listed below:

DISPLAY	STAND ALONE MODE LASER EFFECT
Auy	AUTOMATIC SHOW with YELLOW colours
Aur	AUTOMATIC SHOW with single RED colour
Aug	AUTOMATIC SHOW with single GREEN colour
Arg	AUTOMATIC SHOW with single RGY colour
Soy	SOUND ACTIVATED SHOW with YELLOW colours
Sor	SOUND ACTIVATED SHOW with single RED colour
Sog	SOUND ACTIVATED SHOW with single GREEN colour
Srg	SOUND ACTIVATED SHOW with single RGY colour

#### Sound activated mode sensitivity setting

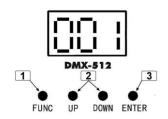
Press FUNC till to see S 6.

Press UP/DOWN to set microphone sensitivity. S 0 is no sound activation, from S 1 to S 9, s1 min s9 max. Press ENTER to confirm and save the setting.



#### DMX mode

Press FUNC to enter MODE OPTION. Till to LED panel shows 001. Use the up / down buttons to select the desired DMX starting address Press ENTER to confirm the setting.



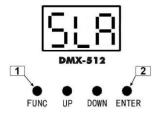
#### Master/slave mode

Linking several units without a DMX controller

#### Master unit

Press FUNC and select desired auto option sound or auto Press the enter button to confirm **Slave unit** Press the mode button until LED panel shows SLA Press ENTER to confirm the setting. All units set to SLA will follow the master unit These must be linked together using a 3pin XLR DMX cable (not supplied)

Note: only one unit must be set to master all other units set to slave.



#### **TESTING MODE**

Press FUNC to enter MODE OPTION.

Until the LED panel shows tSt.

Press ENTER to confirm the setting.

The laser is working in "TEST MODE". In this mode a fixed testing pattern is run as a short demo and laser beam test to show correct working.

. PS: This mode is for service only.

CHANNEL	VALUE	FUNCTION		
	000-029	AUTOMATIC SHOW with single RGY colour		
	030-059	AUTOMATIC SHOW with single GREEN colour		
	060-089	AUTOMATIC SHOW with single RED colour		
	090-119	AUTOMATIC SHOW with YELLOW colours		
CH 1 MODE	120-149	SOUND ACTIVATED SHOW with single RGY colour		
	150-179	SOUND ACTIVATED SHOW with single GREEN colour		
	180-209	SOUND ACTIVATED SHOW with single RED colour		
	210-239	SOUND ACTIVATED SHOW with YELLOW colours		
	240-255	DMX MODE		
CH 2 PATTERN	000-255	32 Patterns as shown in PATTERN LIST		
	000-024	BLACKOUT		
	025-049	ORIGINAL PREPROGRAMED COLOUR		
	050-074	RED		
	075-099	GREEN		
CH 3 COLOUR	100-124	YELLOW		
	125-149	ALTERNATE RED & GREEN		
	150-174	ALTERNATE RED & YELLOW		
	175-199	ALTERNATE GREEN & YELLOW		
	200-224	ALTERNATE RED & GREEN & YELLOW		
	225-255	Colour rolling		
CH4 COLOUR CHANGING SPEED	00-004	STOP		
CH4 COLOUR CHANGING SPEED	005-255	SLOW> FAST		
	0-127	100%-5% Size		
CH 5 ZOOMING	128-169	Zooming In		
	170-209	Zooming Out		
	210-255	Zooming In & Out		
	000-127	0 -359 degree fixed X axis rolled		
CH 6 x AXIS ROLLING	128-191	Clockwise rolling		
	192-255	Anticlockwise rolling		
	000-127	0 -359 degree fixed Y axis rolled		
CH 7 y AXIS ROLLING	128-191	Clockwise rolling		
	192-255	Anticlockwise rolling	ψ	
	000-127	0 -359 degree fixed Z axis rotate	•	
CH 8 Z AXIS ROTATING	128-191	Clockwise rotating		
-	128-255	Anticlockwise rotating		
	000-127	128 different fixed position on X		
CH 9 X AXIS MOVING	128-191	Clockwise moving		
	128-255	Anticlockwise moving		
	000-127	128 different fixed position on Y		
CH 10 Y AXIS MOVING	128-191	Clockwise moving	∧	
	128-255	Anticlockwise moving		

#### Pattern list in channel 2 DMX PATTERNS DMX PATTERNS DMX PATTERNS DMX PATTERNS 000-007 064-071 128-135 190-197 008-015 072-079 136-143 198-205 016-023 080-087 144-151 206-213 024-031 088-095 214-221 152-159 ٦ Г 0 I 032-039 096-103 160-167 222-229 I Ъ \_ 040-047 104-111 168-175 230-237 . . . . . ć 048-055 238-245 112-119 176-181 . 056-063 120-127 182-189 246-255

#### Specifications

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Mains Input	AC100-240V, 50/60Hz				
Fuse	250V 1 A Slow Blow (20mm Glass)				
Total Power	12W				
Music Control	Internal microphone				
Laser Power	100mW Red + 40mW Green / colour mixed to equal Yellow				
Red Laser Medium	LD GaAlAs 650nm, typical				
Beam Diameter	<5mm at aperture				
Pulse Data	All pulses < 4Hz (>0.25sec)				
Divergence (each beam)	<2 mrad				
Divergence (total light)	<160 degrees				
Laser Classification	EN60825-1 2007				
Laser Safety Standard	Class 3B				
Condition Temperature	10~40°C				
DMX Connections	3 pins XLR Male/Female				
DMX Channels	10 channels				
Measurement	160x160x80mm				
N Weight	1.3 Kg				

As measured under IEC measurement conditions for classification.