



I N S T R U C T I O N M A N U A L

Powercan Tri54w Slim

Ultra high power RGB LED par can lighting

M A N U A L V E R S I O N 1 . 0
D A T E 1 6 - 1 0 - 1 1

- 18 x superb quality, tri colour ultra high power 3w LEDs
 - Red, green and blue flicker-free 3w LEDs
 - Suitable for film and production purposes
 - Full colour mixing via DMX or manual mixing
 - Built-in programs
 - DMX and Master/Slave modes
- Four different channels modes: 9 / 3 / 4 / HSV
- Sound-to-Light and stand-alone modes
- Dual bracket for rigging and floor use
- Compact and slim housing design
- Heavy duty professional housing
- Dimensions: 340 x 220 x 60mm (LxWxH)
- Weight: 3Kg

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
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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. © Copyright Lamba plc 2011. E&OE.

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. 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 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 required written on 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.

Operation

DMX Modes (Three DMX modes)

- 1) Press <MODE> until "PERS" is displayed then press "Enter" to confirm.
- 2) Use <UP> and <DOWN> to select the DMX mode" 9 CH, 3 CH, 4 CH, HSu" then press "Enter" to confirm.

DMX Addressing:

- 1) Press <MODE> until "Addr" is displayed then press "Enter" TWICE to confirm.
- 2) Use <UP> and <DOWN> to select the DMX starting address (1- 512), press Enter to confirm.

When connecting several units with a DMX controller, the units will need to have the DMX address set.

If all units are to be controlled the same way

1. Ensure each unit has the number of DMX control channels set to the same mode.
2. Set the DMX address channels to the same value on each unit.
3. All units will now be controlled at the same time.

When requiring individual control of each unit

1. Assign each unit with its own DMX start value depending on the amount of channels you need to control the unit.
2. Each unit can either use the same amount of control channels or you may choose to have more control over different units. For example one controlled by 3 channels and another controlled by 9 channels.
3. No address channels should cross over.

Example - if the first unit is set to 3 channel mode. Set DMX start address to d1. If the next unit has 9 control channels, set the DMX start address to d4, then a third unit will have to start 9 channels on from this, so the next starting address would be 13 and so on.

Automatic Mode

This fixture has a built-in automatic program. To access this, please see the below instructions:

- 1) Press <MODE> until "P -" is displayed then press "Enter" to confirm.
- 2) Use <UP> and <DOWN> to select the built-in programs "P-01 ~ P-10" then press the "Enter" to confirm.
- 3) Use <UP> and <DOWN> to select the operating speed of the programs (Values 1-255, Slow~Fast). Press "Enter" to confirm.

Sound-to-Light Mode (Sound Mode)

1. Press <Mode> to select Sound mode (SoUd), press <Enter> to confirm.
2. Display shows "rUn" when sound mode is activated.
3. Use the sound sensitivity control to select desired sensitivity level

Static Colour Setting

1. Remove any DMX controller from the fixture.
2. Press <Mode> to select Static Colour mode (C-).
3. Press <ENTER>.
4. Using <UP> & <DOWN>, select one of the seven preset colours (see chart below)
5. Press <ENTER> to confirm

Please see below map for the static colour setting:

Selection	Sub-Selection	Function
C -	C 01	Red
	C 02	Green
	C 03	Blue
	C 04	Cyan
	C 05	Magenta
	C 06	Yellow
	C 07	White

User Mode/strobe

This mode allows the user to set the intensity of R, G, B separately to get endless colour mixing from the control board without a DMX controller

- 1) Press <MODE> until "U -" is displayed then press "Enter" to confirm.
- 2) Use <UP> and <DOWN> to select the "r / G / b" for Colours intensity or "S" for strobe, then press the "Enter" to confirm.
- 3) Use <UP> and <DOWN> to set the colours intensity values "0 ~ 255" or Strobe speed values "0~20" (Slow~Fast), then press "Enter" to confirm.

Master/Slave Operation

This mode allows for multiple Slave units to follow a single Master unit.

- 1) Set the Master unit to one of the standalone operating modes: Automatic, Sound mode, User mode or Static Colour mode.
- 2) Set the Slave units to the DMX starting address "d1" (see DMX addressing section).

When using a Master/Slave setup, only one unit must be set as the Master unit. All other units must be set as a Slave and to d1.

DMX values

9 Channels Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	Master DIMMER 0% ~ 100%
2	000-255	Red 0% ~ 100% (or Step Time when playing CUS. 01-10)
3	000-255	Green 0% ~ 100% (or Fade time when playing CUS. 01-10)
4	000-255	Blue 0% ~ 100%
5	000-010	No Function
	011-030	RED 100% / GREEN UP / BLUE 0%
	031-050	RED DOWN / GREEN 100% / BLUE 0%
	051-070	RED 0% / GREEN 100% / BLUE UP
	071-090	RED 0% / GREEN DOWN / BLUE 100%
	091-110	RED UP / GREEN 0% / BLUE 100%
	111-130	RED 100% / GREEN 0% / BLUE DOWN
	131-150	RED 100% / GREEN UP / BLUE UP
	151-170	RED DOWN / GREEN DOWN / BLUE 100%
	171-200	RED 100% / GREEN 100% / BLUE 100%
	201-205	WHITE 1: 3200K
	206-210	WHITE 2: 3400K
	211-215	WHITE 3 4200K
	216-220	WHITE 4: 4900K
	221-225	WHITE 5: 5600K
	226-230	WHITE 6: 5900K
	231-235	WHITE 7: 6500 K
236-240	WHITE 8: 7200K	
241-245	WHITE 9: 8000K	
246-250	WHITE10: 8500K	
251-255	WHITE11: 10000K	
6	000-009	Strobe OFF
	010-255	Strobe 0 ~ 20Hz (Slow ~ Fast)
7	000-023	No Function

	024-047	Auto Program 1
	048-071	Auto Program 2
	072-095	Auto Program 3
	096-119	Auto Program 4
	120-143	Auto Program 5
	144-167	Auto Program 6
	168-191	Auto Program 7
	192-215	Auto Program 8
	216-239	Auto Program 9
	240-249	Auto Program 10 (Loop of above programs)
	250-255	Sound activated
8	000-255	Speed of Auto Programs (Slow ~ Fast)
9	000-250	Linear dimmer
	251-255	Non-Linear dimmer

3 Channel Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	Red: 0% ~ 100%
2	000-255	Green: 0% ~ 100%
3	000-255	Blue: 0% ~ 100%

4 Channel Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	Master Dimmer 0% ~ 100%
2	000-255	Red: 0% ~ 100%
3	000-255	Green: 0% ~ 100%
4	000-255	Blue: 0% ~ 100%

HSV Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	H: Hue (colour tone)
2	000-255	S: Saturation of Colour
3	000-255	V: Luminance

Technical specification

Power supply: 100-240V AC / 50/60 Hz

Power consumption: 60w

DMX control channels: 9 / 3 / 4 / HSV

DMX512 connection: 3-pin XLR

Number of LEDs: 18

Type of LEDs: 3w tri-colour

Beam angle: approx. 25°

Dimensions (LxWxH): 340 x 220 x 60 mm

Weight: 3Kg

Maximum ambient temperature Ta: 45° C

Maximum housing temperature TC (steady state): 50° C

Fuse: F2A / 250V