

KAM

INSTRUCTION MANUAL

Tri-LED Trooper

Tri colour LED DMX lighting effect

M A N U A L V E R S I O N 1 . 0
1 2 . 0 7 . 1 0

15 lens tri coloured Y shaped LED effect with DMX
Tri colour LED unit that produces stunning sweeping effects
7 colour output
15 angled glass lenses for dispersion
Motor controlled moving light beams
Sound-to-Light and DMX modes
DMX512 compatible
4 channel DMX512 operation
Fan cooled operation
Tough metal chassis
Adjustable hanging bracket
Mains fused IEC

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 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 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 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.

OPERATION

Standalone mode

Set the unit to sound or auto mode using the dipswitches.

Sound activation: set dipswitch 9 to the on position, use the knob on the side of the unit to adjust the sound sensitivity.

Auto mode: set dipswitch 8 to the on position.

The LED-Tri Trooper effect uses 4 DMX channels.

Stand alone mode using dipswitches

Function	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8	DIP 9	DIP 10	Mode
Red	1	0	0	0	0	0	0	0	0	0	Auto (Master)
Green	0	1	0	0	0	0	0	0	0	0	Auto (Master)
Blue	0	0	1	0	0	0	0	0	0	0	Auto (Master)
Strobe slow	0	0	0	1	0	0	0	0	0	0	Auto (Master)
Strobe - Medium	0	0	0	0	1	0	0	0	0	0	Auto (Master)
Strobe - Fast	0	0	0	0	0	1	0	0	0	0	Auto (Master)
Colour roll	0	0	0	0	0	0	1	0	0	0	Auto (Master)
Auto	0	0	0	0	0	0	0	1	0	0	Auto (Master)
Sound-control	0	0	0	0	0	0	0	0	1	0	Sound-control (Master)
Master/Slave	0	0	0	0	0	0	0	0	0	1	Auto (Master)

Dipswitches 4-7 will only work when dipswitches 1-3 are selected, using a combination of 1-3 switches will colour mix.

Master slave

When master slaving units without DMX controller, set the master unit as required, sound or auto mode, using dipswitches as described, set all slave units with dipswitch 10 on only, these will follow the master unit.

DMX address

Set dipswitch 10 to the on position to activate DMX address mode. Use dipswitches 1-9 to set DMX starting address.

Note: to operate channel 2-4, channel 1 must be in the 0 position.

Channel	DMX	Function
CH1	0-19	Blackout
	20-39	Red
	40-59	Green
	60-79	Blue
	80-99	Green & Blue
	100-119	Red & Blue
	120-139	Red & Green
	140-159	Red/Green & Blue
	160-179	3 colour chase with rotation
	180-255	7 colour chase with rotation

CH2	000-004	Blackout
	005-028	Red
	029-057	Green
	058-084	Blue
	085-112	Green & Blue
	113-140	Red & Blue
	141-168	Red & Green
	169-197	Red/Green/Blue
	198-224	3 colour chase
	225-255	7 colour chase
CH3	000-004	Static
	005-255	Slow to fast strobe
CH4	000-004	Static
	005-127	Manual rotation movement
	128-255	Auto movement variations

Setting the DMX-Starting address	DIP-switch no.	1	2	3	4	5	6	7	8	9
Projector number & channels	DMX-starting address	1	2	4	8	16	32	64	128	256

Using a combination of the dipswitches will allow the required DMX starting address from 1-512. For example, if DMX starting address 24 is required set dipswitches 4 + 5 to the on position, this addresses the values of 16 + 8 together and so on.

Please make sure that you do not have any overlapping channels in order to control each device correctly and independently from any other fixture on the DMX data link. If two, three or more devices are addressed similarly, they will work similarly.

Specifications

Power supply	90-250 V AC, 50 Hz ~ 60 Hz ~
Power consumption	33w
Current	0.28A
Sound control	via built-in microphone
DMX-512 connection	3-pin XLR
Dimensions (LxWxH)	280 x 280 x 270 (mm)
Weight	3Kg
Maximum ambient temperature	45
Maximum housing temperature	50
Fuse	F1A, 250V
Number of channels	4
Number of LEDs	2 x 9W