

# KAM

## INSTRUCTION MANUAL

# LED PARBAR MKIII

## Portable all-in-one DMX LED lighting rig

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

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Portable all-in-one DMX LED lighting rig for all performers from live bands to DJs!

- Sound-to-Light with built-in programs
- Stand-alone operation for solo performance
- Fully 512 DMX compatible
- 15 x DMX channel operation
- T-bar incorporates built-in LED controller
- XLR DMX in and out
- 4 pedal foot controller
- Includes padded rig bag
- Includes stand and stand bag
- Endless show creation possibilities

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

# [www.kam.co.uk](http://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.

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**Thank you for purchasing this 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.

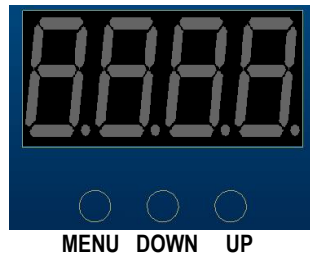
The serial number for this equipment should be located on the rear or underside of the unit. Please make a note of this number as you will need it for your warranty, it is a good idea to keep a copy of the serial number for your own records.

## Modes

1. **Sound mode** – outputs built-in programs from the parbar in time with the music. Activated via the built-in microphone and adjusted via the onboard sensitivity control.
2. **Auto mode** – Outputs built-in programs from the parbar at a set speed or delay. Activated and set via the onboard controller.
3. **Manual mode** – Control colour mixing, strobing and fade.
4. **DMX 512 mode** – Control each individual LED colour, brightness, strobe and chase via external controller (NOT Supplied)
5. **Obey3** – 3 simple sound patterns to select or 3 channel DMX mode ideal for RGB control.
6. **Master/slave mode** – Connect many units to one master to create a chain effect.

## Display

This product has an internal control system and interface. The system is configured and navigated via the menu, down and up buttons shown in the picture below.



When first switch on the unit will automatically enter DMX mode and display (A001) and Obey3 control function. The unit has a memory, so when switched on again the unit will enter the mode you finished with previously.

**Press MENU buttons to enter different working modes, the modes are as follows:**

Menu button		Down button	Menu button	Up button
mode	display			
DMX mode	A***	A512-A001 (DMX address)	return back	A001-A512 (DMX address)
Auto mode	AP**	AP12-AP01 (12 patterns to select)	return back	F00/08 Enter interface to choose speed
		F-00 – F-08 (8 patterns to select)	return back	Save data and run
Manual mode	coLo	No function	return back	Enter interface to choose Red
		r-00 - r-08 (8 kinds of Red intensity to select)	return back	Enter interface to choose Green
		g-00 - g-08 (8 kinds of Green intensity to select)	return back	Enter interface to choose Blue
		b-00 – b-08 (8 kinds of Blue intensity to select)	return back	Enter interface to choose speed
		F-00 – F-08 (8 strobe speeds to select)	return back	Save data and run
Obey 3 channel mode	OB-3	3 channel DMX	return back Ch1 – Red Ch2 – Green Ch3 – Blue	No function
Sound mode	Soun	No function	return back	Enter interface to choose Sound patterns
		SP00-SP03 (4 sound patterns to choose from)	return back	Save data and run

**Auto mode:** Has 12 patterns in this mode, AP01-AP12 and you can set the speed for each pattern chase.

**Manual mode:** For colour mixing you can set the intensity of the Red, Blue and Green. You can also set the strobe speed manually.

**Sound mode:** You can select the 4 sound modes, SP03 means RGB On/Off, SP02 means color mixing changing, SP01 means RGB changing, and SP00 means 7-single color changing.

**Foot switch mode :** You can connect the footswitch unit (in any working mode) after entering footswitch mode.

**Footswitch “BLACKOUT”:** Press the “BLACKOUT” pedal to turn off all LEDs in parbar lights and the LED Display will show OFF. Press “BLACKOUT” again to return to the last scene before turn off all LEDs.

**Footswitch “HOLD”:** Press the “HOLD” pedal to hold the data and display. The LED display will show ‘HOLD’. Press “HOLD” pedal again to return to the last scene before hold.

**Footswitch “SOUNDON”:** Press the “SOUNDON” pedal to enter sound mode and to select four different sound types. You can also press the “MENU” button and use the “Up” button to select the four different sound types using the main controller when the parbar is working in **Foot switch mode** .The LED display on parbar will show “Soun”.

Press “SOUNDON” pedal to enter sound mode and to choose from four different sound modes. You can also select the four different sound kinds by pressing the ‘MENU’ button and using the ‘UP’ button to choose the sound kind.

On the main controller press the “MENU” button and use the “Up” button to select the “SOUNDON” button on the foot controller to choose different patterns. The LED display on parbar will show “SOUN”.

**Footswitch “PRESET”:** Press “PRESET” pedal to system reset. The LED display on parbar will show “APON” Now use the controller on the parbar, press “Menu” and “Up” to enter AUTO mode, “Color” choosing mode and SOUND mode.

You can use “PRESET” of the footswitch to select RGB->R->G->B->RG->GB->RB->RGB-> AP01-> AP02-> AP03-> AP04-> AP05-> AP06-> AP07-> AP08-> AP09-> AP10-> AP11-> AP12-> ALL (run all APO1-AP12 patterns one by one).

**PLEASE NOTE -** During operation, if there is no press on the button or controller button within 5 seconds, the Blue LED display will turn off but will still display a small dot on the bottom right hand corner. If you press again, it will show the last item displayed on the display. When the LED parbar is connected to the DMX 512 controller or another LED parbar, the Blue LED DMX indicator flashes. When you connect two LED parbars as master/slave, the first slave’s blue dot on display flashes.

The Flashing blue LED indicates that a DMX signal is present or you are connected to another parbar.

**DMX channel data**

**PLEASE NOTE** - the DMX function will only work if CH1 is set to DMX Mode, which is set by adjusting the DMX fader value below 009 and the DMX Fade function (CH2) is set to light output level above 0% or DMX fader value greater than 1. Please Locate CH1 position the fader greater than 000 and less than 009 DMX fader value. Locate CH2 fader and check fade function control is set. Increase to DMX fader value 255 for 100% full on output. Then you will have control of the DMX functions.

Channel	Function	DMX value	Function
CH1	Mode 01	000 ~ 009	<b>ENABLES USE OF DMX CHANNELS 1-15</b>
	Mode 02	010 – 029	Run program 01 – CH3 >15
	Mode 03	030 – 049	Run program 02 – CH3 >15
	Mode 04	050 – 069	Run program 03 – CH3 >15
	Mode 05	070 – 089	Run program 04 – CH3 >15
	Mode 06	090 – 109	Run program 05 – CH3 >15
	Mode 07	110 – 129	Run program 06 – CH3 >15
	Mode 08	130 – 149	Run program 07 – CH3 >15
	Mode 09	150 – 169	Run program 08 – CH3 >15
	Mode 10	170 – 189	Run program 09 – CH3 >15
	Mode 11	190 – 209	Run program 10 – CH3 >15
	Mode 12	210 – 229	Run program 11 – CH3 >15
	Mode 13	230 – 249	Run program 12 – CH3 >15
	Mode 14	250 – 255	4 Sound patterns
CH2	RGB general dimming	0 ~ 255	Only works when CH1 is between 000<009 <b>FADER – DIMMER</b> <b>PLEASE NOTE NO OUTPUT FROM ANY DMX CHANNELS UNLESS FADE IS ABOVE ZERO.</b>
CH3	Choose speed	0 ~ 15	No strobe
		16-255	Choose strobe / running speed <b>PLEASE NOTE FULL ON NON STROBE IS ZERO</b>
		10 ~ 255	Strobe / running speed choosing
CH4	Red LED intensity adjustment	0 ~ 255	Red LED of the 1 <sup>st</sup> par can intensity 0% ~ 100%.
CH5	Green LED intensity adjustment	0 ~ 255	Green of the 1 <sup>st</sup> par can LED intensity 0% ~ 100%.
CH6	Blue LED intensity adjustment	0 ~ 255	Blue LED of the 1 <sup>st</sup> par can intensity 0% ~ 100%.
CH7	Red LED intensity adjustment	0 ~ 255	Red LED of the 2 <sup>nd</sup> par can intensity 0% ~ 100%.
CH8	Green LED intensity adjustment	0 ~ 255	Green LED of the 2 <sup>nd</sup> par can intensity 0% ~ 100%.
CH9	Blue LED intensity adjustment	0 ~ 255	Blue LED of the 2 <sup>nd</sup> par can intensity 0% ~ 100%.
CH10	Red LED intensity adjustment	0 ~ 255	Red LED of the 3 <sup>rd</sup> par can intensity 0% ~ 100%.
CH11	Green LED intensity adjustment	0 ~ 255	Green LED of the 3 <sup>rd</sup> par can intensity 0% ~ 100%.
CH12	Blue LED intensity adjustment	0 ~ 255	Blue LED of the 3 <sup>rd</sup> par can intensity 0% ~ 100%.
CH13	Red LED intensity adjustment	0 ~ 255	Red LED of the 4 <sup>th</sup> par can intensity 0% ~ 100%.
CH14	Green LED intensity adjustment	0 ~ 255	Green LED of the 4 <sup>th</sup> par can intensity 0% ~ 100%.
CH15	Blue LED intensity adjustment	0 ~ 255	Blue LED of the 4 <sup>th</sup> par can intensity 0% ~ 100%.

**Operation description of the Stand-Alone mode**

Stand alone mode is with no DMX controller or footswitch attached.

Stand-alone: sound/auto/manual.

**Auto mode “AP01-AP12”:** Has 12 patterns in this mode. Select **AP01-AP12** and you can set the speed for each pattern.

**Sound mode “SOUN”:** SP03 means RGB on, SP02 means color mixing changing, SP01 means 7-single color changing and SPOO means RGB changing.

**Sound mode:** Adjust the sensitivity knob.

**Operation description of the Master/Slave operation**

Master/slave operation is linking more than 1 LED parbar together.

Master/slave mode: sound/auto/manual, no controller needed.

Set working mode: set one of them as master unit (sound/auto/manual), and set the rest in DMX mode, set DMX address as A001. When controlling the LED parbar with OBEY3, please set each unit's working mode as OBEY3.