Kam

INSTRUCTION MANUAL

Liteobar 126
Colour changing RGB LED panel lighting effect

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

21 / 04 / 11

126 x 10mm RGB LEDs
42 x red, 42 x green, 42 x blue LEDs
Full DMX512 operation / 11 DMX channels
Auto mode / Sound-to-Light operation via built-in mic
Master/Slave modes / LED display
Tough metal chassis / adjustable metal hanging bracket
Twin safety chain loop / mains fused IEC in and out
Dimensions: 580 x 158 x 105mm (WxHxD)
Weight: 3.2Kg

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

www.kam.co.uk

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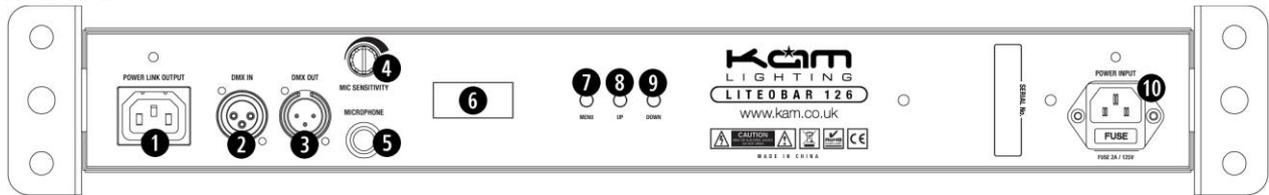
If applicable, only use the stand, tripod or bracket specified or sold with the apparatus.

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 41ºF / 5ºC or exceeding 95ºF / 35ºC).

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.
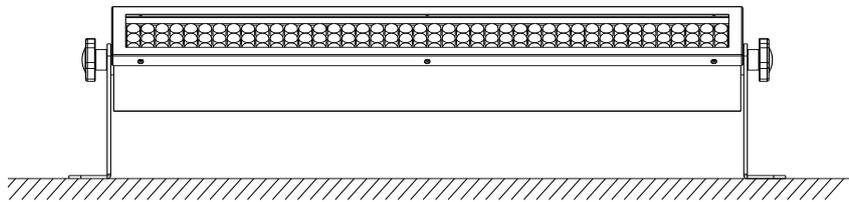
Rear view

1. Power link output   2. DMX Male Socket   3. DMX Female Socket   4. Audio Sensitivity   5. Mic
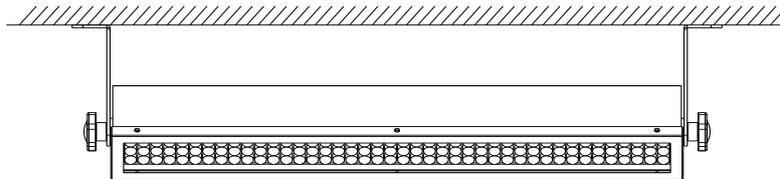6. LCD display   7. Touch switch "MENU"   8. Touch switch "UP"   9. Touch switch "DOWN"   10. Power input

Installation methods
This unit can be fixed to a flat floor surface, wall or ceiling. If you choose to mount the unit please use the appropriate equipment to ensure the unit is completely secured to the wall/ceiling to avoid any problems.

Flat surface installation

Hanging installation

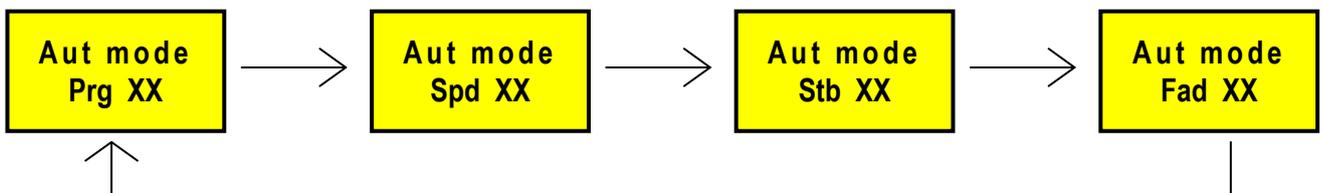**Function**
The unit has 3 main functions.
1. Auto mode   2. Sound mode   3. DMX mode

Insert the mains lead into the IEC socket on the rear panel. When the unit is switched on it will return to the original setting. The display will first show 'reset' and after 2 seconds, the unit will return to the working mode which it was last set to.

Auto mode
Hold the "**MENU"** button until the mode has changed to the Auto mode.
Press the "**MENU**" button again to choose the separate functions within auto mode. Then by pressing the "**UP**" or "**DOWN**" buttons you can change the value of the mode.

Mode specification
Prg XX (01-08): when the display shows Prg XX you can choose the program. There are 8 programs to choose
                        from. Use the up and down buttons to select the desired mode.

Spd XX (01-10): **when the display shows Spd XX** you can set the speed of the program. There are 10 speeds to choose from. 01 is the fastest speed and 10 is the slowest speed. Use the up and down buttons to select the desired speed.

Stb XX (01-10): **when the display shows Stb XX** use the up and down buttons to select the desired speed of the Strobe. 00 value is no strobe.
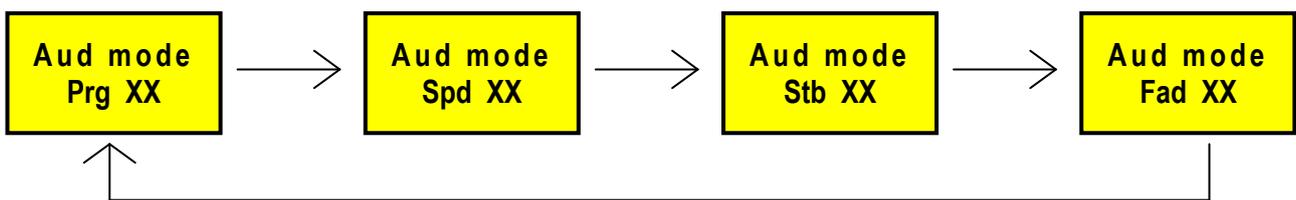
Fad XX (01-10): **when the display shows Fad XX** use the up/down buttons to select desired speed of the fade.There are 10 fade steps for you to choose from. 01 is the fastest fade and 10 is the slowest fade.

Note: If you set up the strobe and fade together, the strobe will have priority. If the Stb or Fad is not set to 0 the fixture will run the strobe mode not fade mode.

Audio mode

Hold the "**MENU"** button until the display changes to the **Audio** mode,
Press the "**MENU**" button again to choose the separate functions within audio mode. Then by pressing the "**UP**" or "**DOWN**" buttons you can change the value of the mode.

Prg XX (01-08): **when the display shows Prg XX** you can choose the program. There are 8 programs to choose from. Use the up and down buttons to select the desired mode.

Spd XX (01-10): **when the display shows Spd XX** you can set the speed of the program. There are 10 speeds to choose from. 01 is the fastest speed and 10 is the slowest speed. Use the up and down buttons to select the desired speed.

Stb XX (01-10): **when the display shows Stb XX** use the up and down buttons to select the desired speed of the Strobe. 00 value is no strobe.

Fad XX (01-10): **when the display shows Fad XX** use the up and down buttons to select the desired speed of the fade. There are 10 fade steps for you to choose from. 01 is the fastest fade and 10 is the slowest fade.

Note: If you set up the strobe and fade together, the strobe will have priority. If the Stb or Fad is not set to 0 the fixture will run the strobe mode not fade mode.

You can adjust the sound sensitivity of the unit by adjusting the control knob on the rear panel.
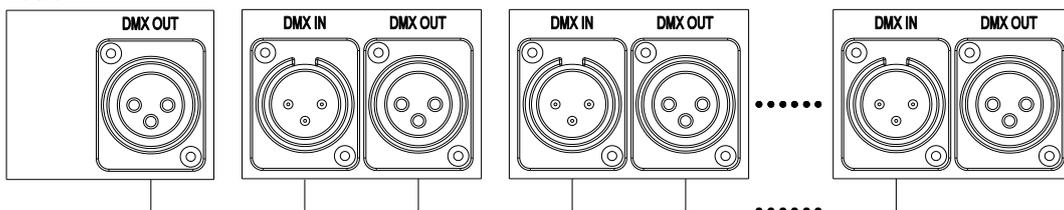
1. Master / Slave Mode without DMX controller
Only one unit must be set as the master unit.
By using the instructions above, set the master unit to the desired setting. For example, auto mode.

Slave units
Hold the "**MENU"** button until the mode has changed to the DMX mode. By pressing the "**UP" or** "**DOWN"** buttons select the DMX value address of 001. This puts the unit into slave mode. All slave units must be set to 001. Starting with the master unit, connect a 3 pin DMX cable to the DMX out socket of the master unit and then connect the other end of the DMX lead to the input of the slave unit. Continue to link all slave units together as shown below.

DMX control

DMX function chart

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11
0 - 40 Black Out	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
41 - 80 Dimmer1	Flash	Red1	Green1	Blue1	Red2	Green2	Blue2	Red3	Green3	Blue3
81 - 120 Dimmer2	Flash	All Red	All Green	All Blue	NA	NA	NA	NA	NA	NA
121 - 160 Color Flash	Flash	Color	NA	NA	NA	NA	NA	NA	NA	NA
161 - 200 Color Change	Speed	NA	NA	NA	NA	NA	NA	NA	NA	NA
200 - 240 Color Flow	Speed	NA	NA	NA	NA	NA	NA	NA	NA	NA
241 - 255 Dream Flow	Speed	Fade	NA	NA	NA	NA	NA	NA	NA	NA

DMX linking:
Each unit uses 11 DMX channels.
If control of all units is to be the same, each unit must have the same DMX address value.
Hold the "**MENU"** button until the mode has changed to the DMX mode. By pressing the "**UP" or** "**DOWN"** buttons select the DMX value address. For example, if all units are set to DMX address 001 they will all display the same.

If individual control of each unit is required via a DMX controller, each unit must have its own DMX address and each address must be at least 11 channels apart. For example, hold the "**MENU"** button until the mode has changed to the DMX mode. By pressing the "**UP" or** "**DOWN"** buttons select the DMX value address. Set the first unit to 001 and then the second unit to 012 and so on, each unit must be 11 channels apart. No unit channels must cross over. Now control of each individual unit is available via the DMX controller.

DMX connector pin
Male & Female DMX connector pin: Pin1 = Gnd   Pin2 = DMX-   Pin3 = DMX+

Technical specification

No. of LEDs	126 x 10mm RGB LEDs
No. of each LEDs	42 x Red, 42 x Green, 42 x Blue
DMX operation	Full DMX512 operation
No. of DMX channels	11 DMX channels
Auto mode	Auto mode
Sound-to-Light	Sound-to-Light operation via built-in mic
Mic sensitivity	Variable mic sensitivity
Master/Slave mode	Master/Slave modes
LED display	LED display
Chassis	Tough metal chassis
Bracket	Adjustable metal hanging bracket
Safety chain	Twin safety chain loop
Mains	Mains fused IEC in and out
Dimensions (WxHxD) (mm)	580 x 158 x 105mm (WxHxD)
Weight (Kg)	3.2Kg