

# THE **FADE 4 MK II**

Multifunction Dimmer Controller



The **FADE4 MK II** is a Microprocessor Controlled light dimmer/sequencer capable of loads up to 1.2kW per channel with a total loading across four channels of 10 Amps (2.4kW). It combines a 4 channel light dimmer with a sequencer. Operating as a sequencer with standard flash chase or fade chase to create an impressive soft ripple effect.

The **FADE4 MK II** is the ideal 4 channel stage lighting controller for schools, bands and theatre groups, shop window or trade show displays, discos, clubs, restaurants and hotels. This multi purpose lighting controller can be used either as a chaser allowing the lights to flash in sequence, or as a four channel dimmer providing dimmer control of maximum loading 1.2kW per channel or 2.4kW total.

The **FADE4 MK II** is the perfect way to create vivid and dynamic lighting effects.

The **FADE4 MK II** features long throw faders which allows precise level control and a flash button that instantly brings the channel to full output.

The **FADE4 MK II** has one iron powder toroidal choke, which gives excellent EMI (interference) suppression. The dimming curve follows the Square Law giving true power response and very smooth operation over the full range.

The case is styled in strong steel, finished in black powdercoat with a white printed control panel.

# **CONTROLS & CONNECTIONS**

## ***Channel level***

The faders have 60mm travel and are the individual channel level controls for all four outputs. The settings of the faders determine the relative intensity of the lights connected to the outputs.

## ***Master level***

The master level fader is used to control the channel faders as a group. As the master level fader is moved from zero to full the channels will fade up to the level set by their respective faders.

## ***Speed control***

The speed control is used in the manual dimmer mode to adjust the fade time. This sets the time in seconds for a channel to ramp from off to full. It is adjustable from zero (instant response) to 10 seconds. If this was set to say 4 seconds and a channel was running at 50%, increasing this channel to 100%, it would take 2 seconds to reach 100%. In the sequencer mode the speed control adjusts the rate of chase. It can be used to vary the speed from stopped to a maximum of 5 steps per second.

## ***Channel flash buttons***

The channel flash buttons can be used to flash a channel to full irrespective of the channel and master faders levels. This is an instant flash and the current fade time has no effect.

## ***Master DBO button***

The master DBO button can be used to instantly switch all channels off, called Dead Black Out. This is an instant DBO and the current fade time has no effect. The filament heater, if set above zero will set the DBO level.

## ***Mode switch***

The mode switch is used to select between manual dimmer mode and sequencer mode. Sequencer mode controlled via this pushbutton allows sequencing with variable speed providing a variety of effects from slow changes to fast strobing pulses.

**When in the sequencer mode the channel level controls adjusts the off level of their respective channel and the master level adjusts the over all on level.**

## ***Mode LED Indicators***

The LEDs located to the right of the speed control indicate which mode has been selected with the mode switch. Pressing the mode switch will cycle through the available sequence patterns. The current pattern being indicated by the mode LEDs. Manual dimmer mode is indicated by no LEDs being lit. It is normal for all Six LEDs to briefly flash when the unit is turned on.

## **Chase Patterns**

The pattern is selected using the mode switch (see across).

The user can select from a total of five sequences.

Flashing: Channels 1 and 3 alternate between channels 2 and 4.

Sequential: One channel on at a time, flashing 1,2,3,4,1,2,3,4 etc.

Waving 1: Same as Sequential above but a fade chase. Channel 1 will fade up to full as Channel 4 fades down, each reaching half level together, then as channel 1 fades down channel 2 will fade up, etc.

Waving 2: Same as Waving 1 above but with a 2 channel fade chase. Channel 1 has already faded to full, channel 2 will fade up as channel 4 fades down, channel 3 will fade up as channel 1 fades down, channel 4 fades up as channel 2 fades down etc.

Fading: All four channels fade up to fill and down together.

Random: Cycles through the above 5 modes.

## **Power on/off**

This switch illuminates when on and indicates the unit is ready for use. Turning this switch off disables the **FADE4 MK II**.

## **Outputs**

The **FADE4 MK II** is equipped with four (one per channel) PDL 570S, 10 Amp output connectors on the rear of the unit.

## **Internal controls**

Mounted on the printed circuit board inside the **FADE4 MK II** case are two preset rotary controls and two switches. The first rotary preset control can be used as a filament heater. Adjusting this control will set all four channels to a preset level when ever the unit is turned on. The range of this adjustment is 0 to 10%.

The second rotary preset control can be used as a second speed control the same as the control on the top panel. The speed that will be set in all modes of operation will always be the control with the higher setting.

The range of this adjustment is 0 to 100%.

The two switches are used to set the power on mode.

Switch 1 & 2 off	= Dimmer	Switch 1 off & 2 on	= Sequential
Switch 1 off & 2 off	= Waving 2	Switch 1 & 2 on	= Fading

**NOTE:** The **FADE4 MK II** must be disconnected from the power supply (plug removed) before removing cover. The internal controls should always be adjusted with the power supply disconnected and only reconnect the supply once the cover has been replaced. **There are dangerous high voltages inside the unit.**

## SPECIFICATIONS

### **Input**

Power :230VAC 50Hz 10Amp  
Connector :Tapon plug, 1.8m flex

### **Output**

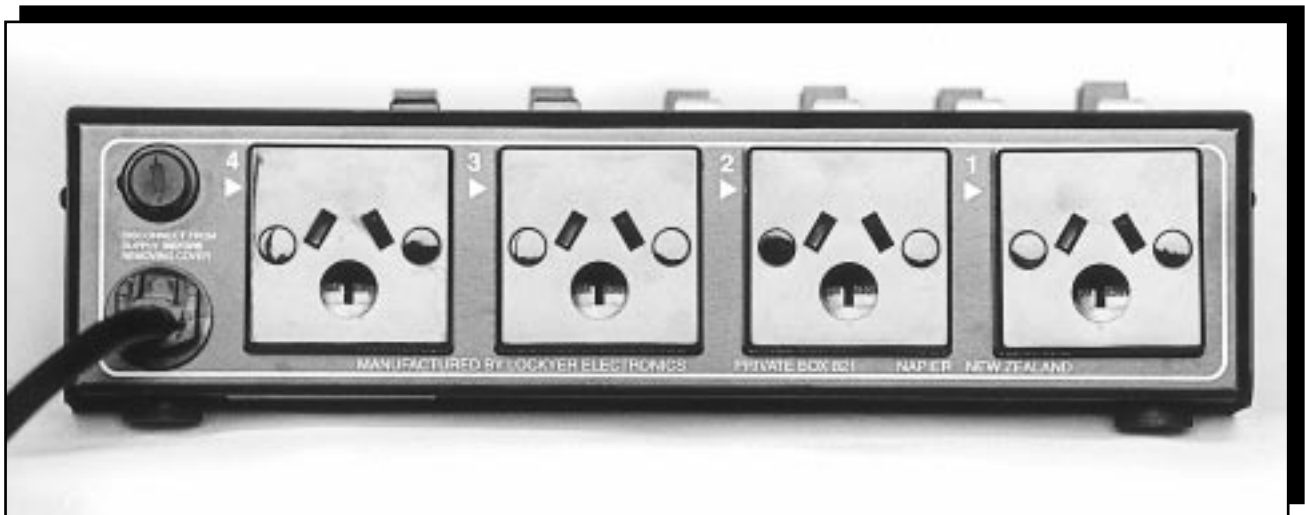
Load per channel :1.2kW Max  
Total Load :2.4kW  
Connectors :PDL 570S  
Fuse :15 Amp

### **Controls**

Power Switch :PDL 580M16N  
Level Controls :60mm Faders  
Flash buttons :Momentary

### **Dimensions**

Height :75mm  
Width :285mm  
Depth :230mm



The **FADE4<sup>MK II</sup>** is manufactured in Napier, New Zealand by Lockyer Electronics.



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