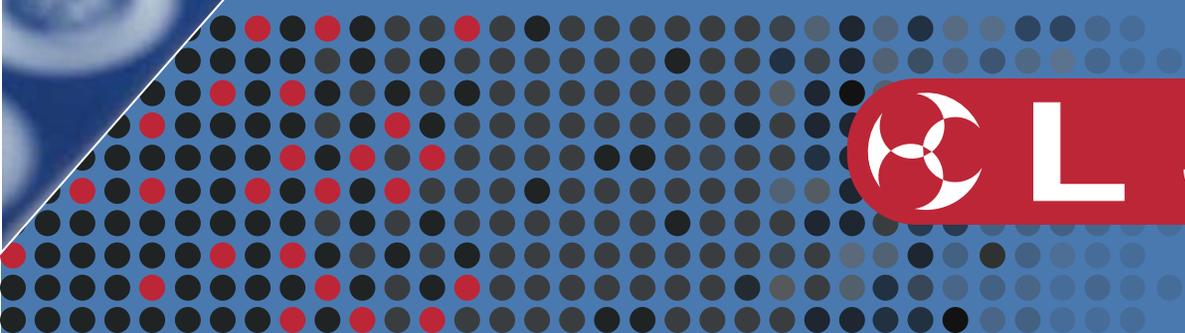




EKO
DIMMING SYSTEM

LSC Lighting Systems www.lscighting.com.au Made in Australia

PERFECTLY CONTROLLED





In today's increasingly competitive world, the buzz word is multi-tasking. It is no longer acceptable for a venue to be dedicated to a single purpose, so we have theatres that are also used as conference halls and convention centres that are used for worship.

The EKO dimmers are designed to adapt to these requirements providing the perfect blend of both theatrical DMX control and push button architectural operation.

Ease of use starts at the time of installation due to the two piece design of the EKO. The unique Installation Frame concept allows for the pre-installation of the mounting bracket and all cabling, even months before the dimmers are delivered to site. This ensures less damage, as well as better cash flow for the installer and the client.

OVERVIEW

> **DMX control with 512 channel softpatch, (from a company who helped invent the DMX512 standard)**

> **Storage of up to 80 memories with recall via push button wall stations**

> **Auto DMX / architectural mode selection**

> **Separate Installation Wiring Frame for ease of installation**

> **Pulse Transformer Fired Dimming (PTFD™) technology for perfect control of inductive and reactive loads**

> **LCD touch screen user interface**

> **Self diagnostics with remote reporting**

> **Load and circuit breaker monitoring option**

> **Flexible installation options**



The Installation Frames installed in a dimmer room with all wiring completed and tested.



Hanging and commissioning 96 channels of dimmers onto the Installation Frames took less than 30 minutes.



The front panel user interface with large status LED, backlit LCD touchscreen and channel mimic LEDs.



INSTALL FRAME

The electricians can terminate all loads and data cabling to the frame, test and sign off. Other trades can work around the frames without fear of damaging expensive electronics. The actual dimmer is only purchased when it is to be taken to site for final commissioning.

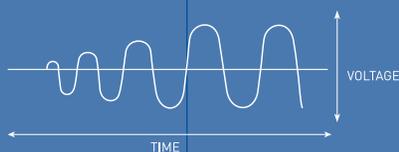
STATUS INDICATION

The large 10mm BiColour LED Indicator provides instant information on the status of the dimmer. Green indicates all is OK, flashing RED tells the operator that there is a problem.

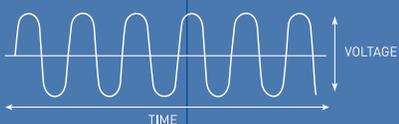
During normal operation the LCD screen shows comprehensive information including output level of every channel, control source (DMX or Memory), Phases present and a scrolling Status bar with any errors.

CURRENT CONTROL TECHNOLOGY (CCT™)

By monitoring the usage of each individual channel the EKO dimmer intelligently applies a soft start curve to any channel that has not been used for a set time. This ensures that nuisance tripping of circuit breakers due to cold filaments does not occur, whilst allowing for instant flash button response when the filaments are warm.



COLD FILAMENT (Soft Start)



WARM FILAMENT (Instant Response)

LCD TOUCHSCREEN

A dimmer this powerful requires a simple User Interface. The graphical 320 x 240 pixel LCD with integral touchscreen provides an easy to use menu system with an impressive range of control options.

DMX VIEWER

The DMX viewer is an invaluable tool for finding DMX issues. All 512 channels are easily viewed in real time.

SOFTPATCH

A full 512 channel softpatch allows any DMX slot to control any channel of the dimmer. Multiple outputs can be assigned to a single DMX address and specific channels can be unpatched completely from DMX control.

Each channel can be assigned one of seven standard dimmer curves. In addition the minimum and maximum levels can be independently set.

LOG FILE

The Log file is an essential aid for fault finding issues once an installation is running. All events are stored and displayed to allow the technician to locate the problem (and even eliminate Operator Error as the cause).

PTFD™

The EKO dimmers use PTFD™ technology to provide perfect control of even the most complex inductive and reactive loads.

Each channel's triac has its own individual power supply, ensuring correct operation with any load. No minimum load or dummy loads are required. Just plug it in and it works. Strobes, ELV, motors, even a 5w globe, with PTFD™ you get perfect dimming every time

THREE MODES OF OPERATION

DMX Mode – Use the EKO as a DMX dimmer rack

Architectural Mode – Use the EKO as a stand alone system with up to 80 memories, multiple zones and remote wall station control.

Combination Mode – Use EKO dimmers in a combination of DMX and Architectural control modes (e.g. 18 channels of DMX stage + 6 channels of wallplate control in the Foyer).

AUTO DMX SWITCHING

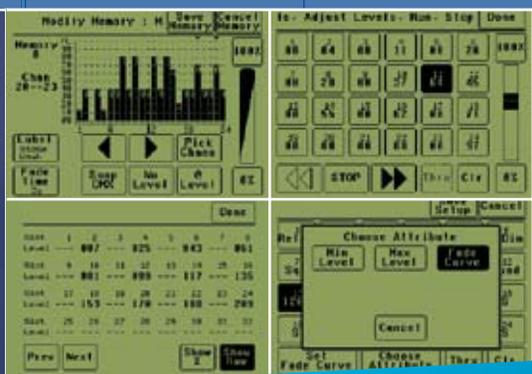
In combination mode the EKO allows the stage lighting to be controlled by DMX and button recall. This is ideal for multi use venues. A basic stage wash can be recalled along with house lights, from an ePlate controller for simple meetings or rehearsals.

During a show when a lighting console is used, as soon as the EKO senses the DMX signal from the lighting console the ePlates are locked out whilst DMX controls the system. When the console is turned off the system reactivates the ePlates after a preset time delay (e.g. 20 seconds).

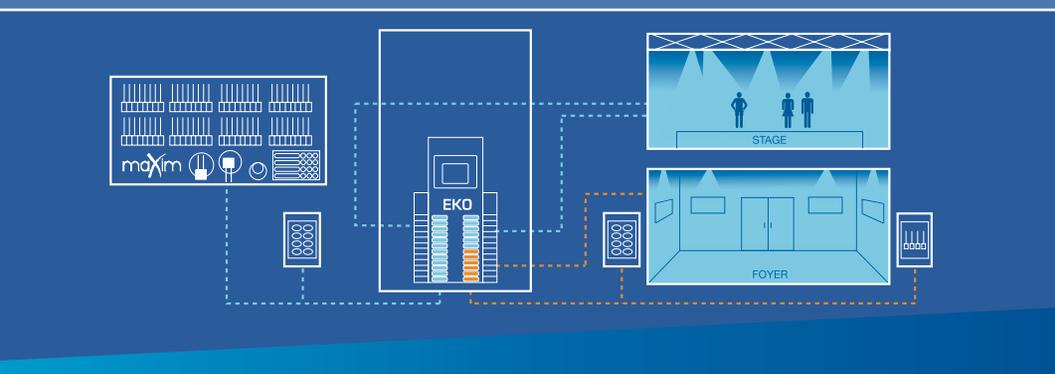
LSCnet

With the inclusion of the LSCnet interface module the EKO dimmer allows:

- > Remote memory activation via wallplate controllers (ePlates)
- > Remote Status monitoring and reporting via Windows™ PC software
- > Remote configuration recall from a central PC
- > All functions possible via a local connection or via the Internet.



Clockwise from top left > The Memory Edit window > Channel Test mode > Dimmer curve selection and Min/Max Controls > DMX Viewer.



A typical installation showing 18 stage channels controlled via DMX and/or push button control. The six foyer channels are configured for exclusive control by wall plates in the foyer.



LSCnet Interface Module with 3 phase supply for operation even if one phase is lost.



Residual Current Device or Main Switch per bank of 12 channels (also known as ELCB and GFI), options include; one per bank, one per phase and one per channel.



Remote wall mount controllers allow recall of memories on EKO dimmers via LSCnet connection (Cat 5 cable).

CONTROL MODULE FEATURES		
GENERAL FEATURES		
User Interface	320 x 240 Graphical LCD touchscreen with auto backlight	
SoftPatch	Full 512 channel	
Preheat	Via Minimum level (per channel)	
Voltage Limiting	Via Maximum level (per channel)	
Dimmer Curves	Seven (S law, Square, Cube, Quad, 120v, Relay, NonDim).	
Security	Yes via 4 digit PIN number	
Number of Memories	80 with individual fade times	
Auto DMX/Memory Switch	Yes	
DMX-512A	Yes plus RDM ready	
DIMMER MODULE FEATURES		
Duty Cycle	100% with all channels fully loaded at 25°C ambient	
Output Circuitry	PTFD™ for flicker free control of inductive and reactive loads. No minimum load required for dimmer operation	
Circuit Protection	Thermal magnetic MCB with 6kA rating	
Inrush Current Protection	Current Control Technology® to prevent nuisance tripping of MCB's	
Cooling	Thermostatically controlled variable speed fans	
MODEL VARIATIONS		
Number of Channels	6, 12, 24	
Output Current per Channel	10A, 13A, 20A, 25A	
Protection (RCD)	None, 1 per 12 channels, 1 per 4 channels phase, 1 per channel	
Supply Voltage	80-120v or 220-265v	
Phases	1, 2 or 3 phases plus Neutral and Earth	
Rise Time	300uS, 600uS	
LSCnet	Optional	
Monitoring	Local, network, Global, MCB, Load	
DIMENSIONS AND WEIGHTS		
	SMALL	LARGE
		
Dimensions – H x W x D (mm)	549 x 480 x 135	824 x 480 x 135
Weight	31kgs (68.2lbs)	42kgs (92.4lbs)



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