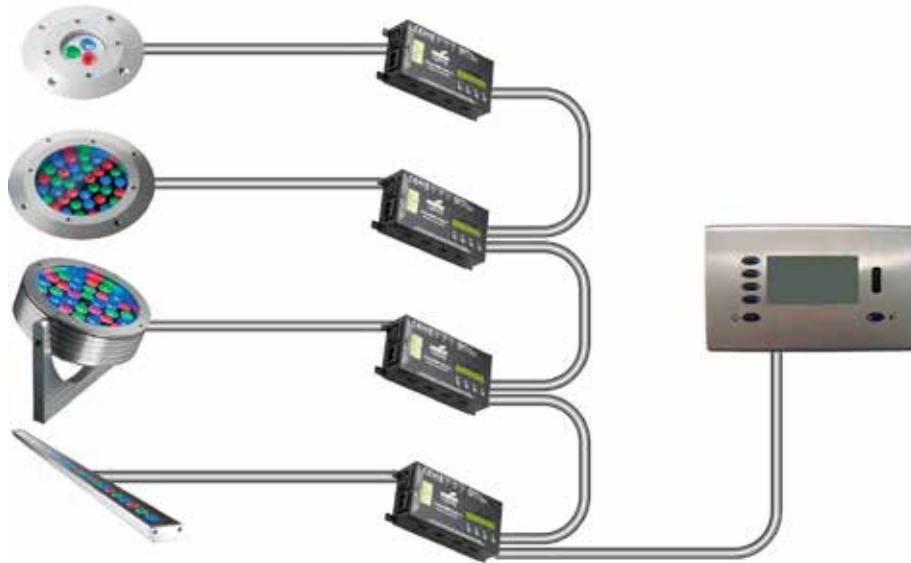


## LED Controls



A whole new dimension in lighting is now available with LEDs. The ability to dynamically change colour enables the designer to create effects never seen or experienced before. As the colour is generated at source there is no need for filters which absorb the light. Combining different coloured LEDs provides the ability to generate any colour in the spectrum, both fixed and dynamically changing. The possibilities are endless.

Eaton's specialist LED team are able to provide support and assistance with project design and specification. For further details contact our lighting technical support and application department on 01302 303240 or to arrange a visit from your local specialist sales engineer, contact our customer care centre on 01302 303303.

**RGB Luminaires**

A wide range of Eaton's architectural luminaires integrate red, green and blue LEDs to provide colour change capability.

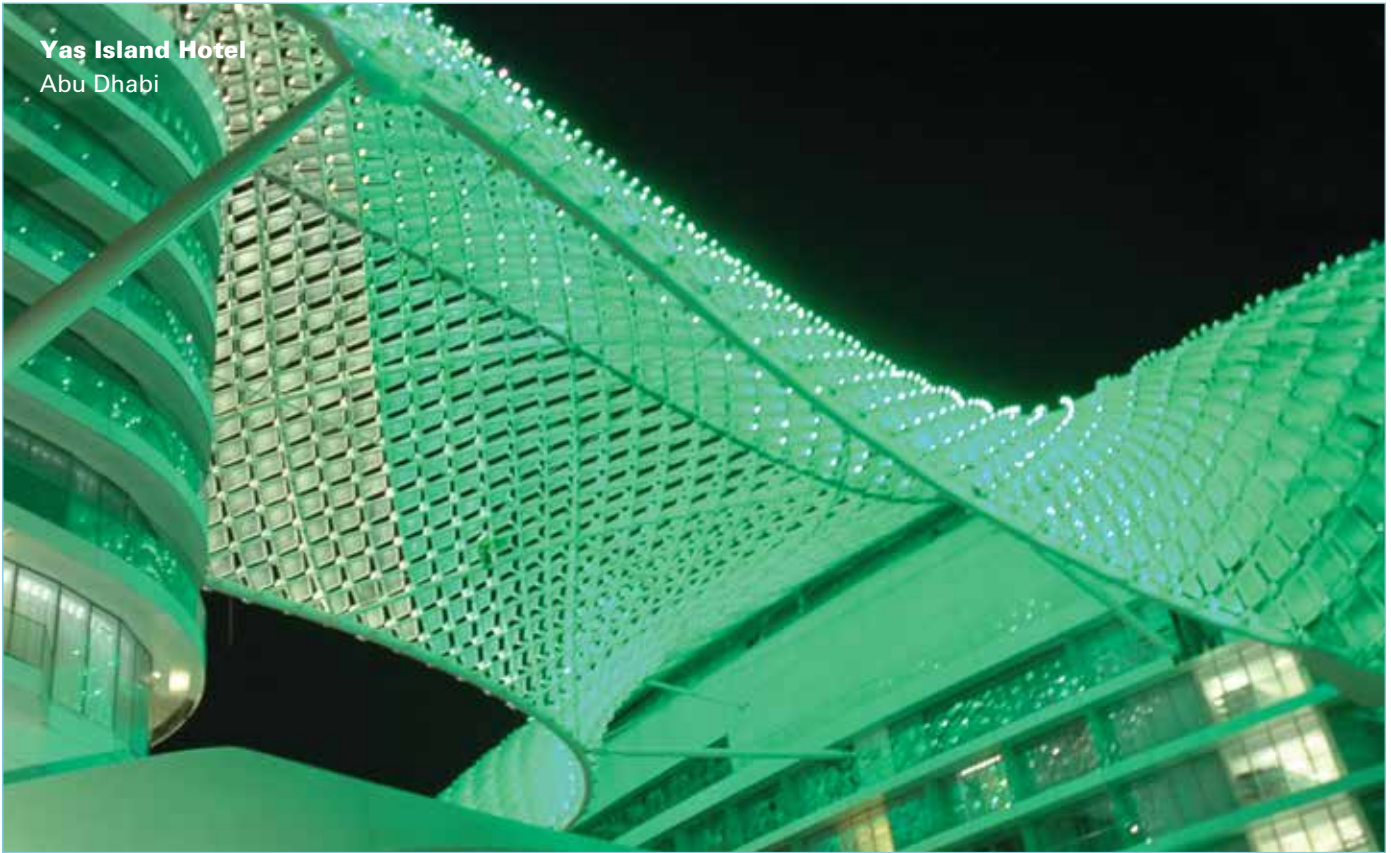
**Colour Change Driver**

All RGB luminaires are supplied complete with RJ45 plug for simple connection into a colour change driver.

**User Control**

A powerful yet user friendly control unit provides multiple default scenes and shows with the ability to programme bespoke colours and effects.





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Abu Dhabi

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### Colour Change Drivers

#### 3 Channel Driver

- Drives up to 48 LEDs across 3 independent channels
- Universal Mains input 110V AC - 240V AC
- Dynamic power control and pulse amplitude modulation
- Backlit 16 x 1 LCD display menu system
- 350mA, 500mA and 700mA max. LED forward current per channel
- 8-bit control with 8-bit master channel current resolution
- Wide output DC voltage range (1V to 48V DC)
- DMX-512A protocol support
- Multiple channel bonding to create high current outputs >2.1A
- Real time LED current, voltage and status monitoring
- Linear and smooth dimming selectable on each channel
- As the LED forward voltage demand goes down, the maximum forward current can be pushed up
- Over 81,000 internal programme scene options
- DMX master/slave options



### Technical Data

Input	
Input Voltage Range:	110 - 240V AC
Input Frequency:	50 - 60Hz
Consumption:	1 - 55W
Power Factor:	0.88/230V AC, 0.9/115V AC @ full load
Efficiency:	85% at full load input
Connection:	Standard IEC mains filter
Standby Power:	<5W (total)
Inrush Current:	<9A
Output	
Output Power:	1-33W per channel, max 55W
Output Current:	0 - 500mA @ 48V DC per channel 0 - 700mA @ 24V DC per channel
Voltage Range:	1 - 48V DC per channel
LED Connection:	8 Pin Molex terminal connector
Thermistor Connection:	Included in the LED connector
Control Input	
Dimming control:	DMX-512A or RDM
Connection:	RJ45 Connector
Dimming Range:	0 - 100%
DMX Address Range:	001 - 510 via Menu system
Programs:	See user manual for all pre-sets
Master / Slave Arrangement:	See user manual
Thermal Feedback Control:	Thermistor control – 4 options
Dimming Resolution:	8-bit and Master Dim PAM
Environmental	
Operating Ambient Temperature:	-10°C to + 50°C
Storage Ambient Temperature:	-20°C to + 70°C
Case Temperature:	+ 75°C
Relative Humidity:	80%
Protection	
Over Voltage, Over Temperature, Overload, Short Circuit, Open Circuit	

### Catalogue Numbers

Cat No	Description
LS-CLMX-VAR-3	3 channel LED driver





### Colour Change Drivers

#### 24 Channel rack mount driver

- 19 inch rack mounted driver system - 1U
- High power density model - 672W output power
- Drives up to 384 LEDs across 24 independent channels
- Universal mains input 110V AC - 240V AC
- Dynamic power control and pulse amplitude modulation
- Backlit 16 x 2 LCD display menu system
- 100mA to 1A LED forward current per channel in 50mA steps
- 8-bit control with 8-bit master channel current resolution to prove up to 4 billion colours in 3 Channels
- Wide output DC voltage range (1V to 48V DC)
- Intelligent rack management system for easy rack plug and play system configuration
- DMX or RDM protocol support
- Multiple channel bonding to create high current outputs >6A
- 8 individual temperature measurement sensor inputs for dynamic lighting fixture protection
- Configures as 8 outputs of 3 channels or 6 outputs of 4 channels
- 672W solution can drive up to 1000mA per channel; either 12 channels @ 48V DC or 24 channels @ 24V DC
- Linear and smooth dimming selectable on each channel
- As the DC voltage demand goes down, the maximum forward current can be pushed up
- Real time LED current, voltage and status monitoring
- Over 81,000 internal programme scene options
- DMX Master/slave options
- Takes standard S pin XLR connectors
- Alternatively has an RJ4S connection in the back of the driver



### Technical Data

<b>Construction</b>	
Mounting:	Standard 19" - 1U Rack System
Material:	Steel case
Weight:	5 kg
Dimensions:	Main body - 435 x 370 x 44mm Front panel - 483 x 44mm
<b>Input</b>	
Input Voltage Range:	110 - 240V AC
Input Frequency:	50 - 60Hz
Consumption:	1 - 700W
Power Factor:	0.95/230V AC, 0.99/115V AC @ full
Efficiency:	>85% at full load input
Connection:	Standard IEC mains filter
Standby Power:	<1W total
Inrush Current:	70A/115V AC, 140A/230V AC
<b>Output</b>	
Output Power:	1 - 48W per channel, max 672W
Output Current:	0 - 500mA @ 48V DC per channel 0 - 1000mA @ 24V DC per channel
Voltage Range:	1 - 48V DC per channel
LED Connection:	8 Pin terminal connectors
Thermistor Connection:	Pin terminal connectors
<b>Control Input</b>	
Dimming control:	DMX-512A or RDM
Connection:	5 - Pin XLR
Dimming Range:	0 - 100%
DMX Address Range:	001 - 510 via Menu system
Programs:	See user manual for all pre-sets
Master / Slave Arrangement:	See user manual
Thermal Feedback Control:	Thermistor control - 4 options
Dimming Resolution:	8-bit and Master Dim PAM
<b>Environmental</b>	
Operating Ambient Temperature:	10°C to + 50°C
Storage Ambient Temperature:	-20°C to + 70°C
Case Temperature:	+ 75°C
Relative Humidity:	80%
<b>Protection</b>	
Over voltage, over temperature, overload, short circuit, open circuit, will withstand 300V AC surge input for 5 seconds	

### Catalogue Numbers

Cat No	Description
LS-CLMX-VAR-24	19" 1U 24 channel rack mount LED driver

### User Control

- Stand-alone operation
- Intuitive setup and operation
- Multi-lingual LCD information screen
- Master brightness and speed control
- Smooth digital dimming
- Sound activation for light and sound synchronised effects
- Built-in real-time astronomical clock
- TCP/IP Ethernet connectivity
- Twin full DMX 512 universes
- Range of plate finishes available
- Fits into a standard 47mm UK back box



### Technical Data

Specification	
Power Supply:	15V DC 0.3A, PSU supplied
DMX Outputs:	2 x 512 channels, fully configurable
Ethernet:	10/100 on RJ-45 socket
I/O:	Up to 3 Volt-free contact closure inputs Up to 3 0-10V outputs
User Interface:	RGB buttons, scroll wheel
Time Functions:	RTC + Astronomical clock built-in
LCD display:	128 x 64 pixel mono graphic display, user configurable
Networking:	Web server built-in, library of telnet commands
Audio In:	Line-level beat triggering audio input. Note audible converter maybe required, contact technical support for details
Dimensions:	146 x 87 x 35mm. 47mm deep standard UK twin back-box recommended
Weight:	0.23kg

### Catalogue Numbers

Cat No	Description
LS-CS512-SS	DMX wall mount controller with stainless steel fascia
LS-CS512-W	DMX wall mount controller with white fascia

