eldoLED

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Demo Kit 50 Watt RGB(W) LED Driver/Controller

L Series

The L Series products are highly integrated, constant current driver/controllers for high-brightness LED lighting applications, targeted at in-fixture installation.

The L Series driver/controllers can be integrated in a network or used as standalone devices. ShowMaster, supported on all eldoLED driver/controllers, allows you to create, manage and upload show sequences for use in standalone mode. Show-Master is part of the freely available TOOLbox software.

The L Series driver/controllers feature one LED current source for up to 4 LED groups. They are DMX- and LedSync-compatible, allowing 15-bit dimming and colour control and bi-directional communication for driver configuration and temperature read-out.

L-Dot demo kit

The L-Dot demo kit allows you to test and understand the full functionality of the L Series products. The kits contain an L-Dot demo board and all the necessary items for a plug-and-play setup. All you need is a PC to run the TOOLbox software.

L-Dot demo kit board

A high-power LED engine has been mounted next to the L Series driver/controller for visual feedback. An onboard screw terminal block offers the possibility of connecting LED arrays of your own choice.

Single/dual/high-power

The demo kit is available in a single, dual and high-power version. The dual version, which is in fact a single L-Dot demo kit with an additional demo board, allows you to evaluate LedSync network features such as automatic address setting and daisy-chaining. The high-power demo kit, which comes with a high-power LED engine, has been especially developed for evaluation of high-power LED outputs of up to 50 watts. Its layout differs from the other demo kits in that the L-Dot and LED array have been attached to a heat sink for proper cooling.

TOOLbox

The TOOLbox (pro) gives you full control over the L-Dot demo board. Simply connect the TOOLbox (pro) to the demo board and to the USB 2.0 port of a Windows-based PC that is running the TOOLbox software, and you will have a 15-bit set point resolution via the LedSync protocol. You can control the demo kit with an external DMX controller by connecting the controller to the demo board's RJ45 connector.

TOOLbox

Minimum PC requirements

• Pentium 4, 1 GHz
• 256MB RAM
• One USB 2.0 port
• Microsoft Windows XP operating system with SP2

Contents single L-Dot demo kit
- L-Dot demo kit board: 1
- TOOLbox pro: 1
- LED optic: 1
- 24V/30W power supply: 1
- 1m/3.3ft USB cable: 1
- 1m/3.3ft UTP cable: 1

Contents dual L-Dot demo kit
- L-Dot demo kit board: 2
- TOOLbox pro: 1
- LED optic: 2
- 24V/30W power supply: 1
- 1m/3.3ft USB cable: 1
- 1m/3.3ft UTP cable: 2
- 1m/3.3ft DC power cable: 1

Contents high-power L-Dot demo kit
- High-power L-Dot demo board: 1
- LED engine with dedicated heat sink: 1
- TOOLbox pro: 1
- LED optic: 1
- 24V/60W power supply: 1
- 1m/3.3ft USB cable: 1
- 1m/3.3ft UTP cable: 1

Connections TOOLbox (pro)
- Data out: RJ45
- PC: USB 2.0

DEMO BOARD
- L-Dot type: 4-channel L-Dot Standard (L-Dot/S 4050)
- Nr of independent LED groups: 4

Connections demo kit board
- Power in: 2.1mm/0.08" DC plug
- Power out: 2.1mm/0.08" DC plug
- Data in: RJ45
- Data out: RJ45
- LED groups: screw terminals (5)
- NTC: screw terminals (2)

Connections high-power demo kit
- Power in: 2.1mm/0.08" DC plug
- Power out: 2.1mm/0.08" DC plug
- Data in: RJ45
- Data out: RJ45

Dynamic effects
- Hydra Drive Algorithm Based Modulation
- Control of channel 1 (R), 2 (G), 3 (B) and 4 (W/A): 0 - 100% in 15-bit set point resolution
- Contrast ratio: up to 8,000:1

Electrical data
- Operating supply voltage range: 24V-32V DC
- Efficiency: up to 95%
- Processor: eldoLED FluxLogic 1600 Series

LED engine (single and dual version)
- Luxeon I (Red): 2
- Luxeon I (Green): 2
- Luxeon I (Blue): 2
- Luxeon I (White): 1

LED engine (high-power version)
- High-end LED engine with dedicated heat sink (e.g. Lamina Titan RGB)

Network control
- Network input: USITT DMX512A or LedSync
- Network output: LedSync
- Network input/output: based on RS485 specification
- DMX/LedSync-in update rate: 8ms
- Network resolution: 8 or 16 bit, set with TOOLbox and TOOLbox software
- Network channels used by driver in 8-bit resolution: 1, 2, 3, or 4
- Network channels used by driver in 16-bit resolution: 2, 4, 6 or 8
- Communication: bidirectional for driver configuration and temperature readout

Ordering information

Description	Product	Order nr
Demo board with LEDs and TOOLbox	Demo kit L-Dot	DLS40502
Two demo boards with LEDs and TOOLbox	Demo kit L-Dot Dual	DLD40502
Demo board with Lamina Titan LEDs on heat sink and TOOLbox pro	Demo kit L-Dot High-Power	DLH40502

V3.0