

**Colour  
is our nature**



## Intelligent 6A/24A LED Driver/Controller

### LINEARdrive Series

LINEARdrives are highly integrated, enclosed and easy-to-configure direct voltage controlled driver/controllers for low-power, indoor LED lighting applications requiring up to 32A.

LINEARdrives can be integrated in a network or used as standalone devices. ShowMaster, supported on all eldoLED driver/controllers, allows you to upload show sequences for use in standalone mode. You can create and manage your own show sequences with the TOOLbox and freely available PC software.

LINEARdrives are DMX-, DALI- and LedSync-compatible, allowing 15-bit dimming and colour control and bidirectional communication for driver configuration and temperature read-out.

### LINEARdrive 180/720

LINEARdrive can supply up to 1.5A per channel (LINEARdrive 180) or 6A per channel (LINEARdrive 720).

LINEARdrive is broadly applicable as it supports low-power LED applications in several environments, be it DMX, DALI or 0-10V.

### Setup is a breeze!

Configure the LINEARdrive over its intuitive, 3-button user interface with display. The easy-to-navigate menu allows you to set parameters such as the number of channels, DMX or DALI settings for networked mode and show/colour/dim values for standalone operation. You can also lock the driver's configuration and perform a test run of the connected LED groups.



### Robust thermal management

Built-in over temperature protection protects the LINEARdrive against overheating.

### Low EMI

LINEARdrive's EMI is very low due to the implementation of slew-rate controlled dimming and shielded conductors.

### Easy to connect

Take off LINEARdrive's top cover to discover that connecting is self-explanatory: the spring-cage connectors for LEDs, power and network leads are all clearly marked. Strain reliefs prevent leads from being pulled out by accident.

### Advantages

- Available in 6A (1.5A per channel) and 24A (6A per channel) versions
- DALI, DMX and 0-10V compatible
- Unprecedented ease-of-configuration
- Extremely smooth dimming and fine colour mixing:
  - 15-bit control resolution for each LED group
- ShowMaster: user-definable show sequences
- Very low EMI
- Compact form factor: 153x50x23mm / 6.02"x1.97"x0.91"

**Electrical data**

- Current:  
LINEARdrive 180:  
up to 6A (1.5A per channel)  
LINEARdrive 720:  
up to 24A (6A per channel)
- Power output:  
LINEARdrive 180: up to 180W  
LINEARdrive 720: up to 720W
- Operating supply voltage range:  
12V-28V DC
- Processor: eldoLED FluxLogic 850 Series
- Independent LED groups: up to 4

**Dynamic effects**

- HydraDrive 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 2,000:1

**Thermal data**

- Cooling: passive (integrated heat spreader). Second heat spreader on LINEARdrive 720 ensures ease of mounting onto required heat sink.
- Built-in protection against overheating of driver/controller

**Mounting data**

- Mounting orientation: any
- Mounting holes: for M4 screws (4)

**Network control**

- Network input: USITT DMX512A, LedSync or DALI (DALI only on LINEARdrive 720)
- Network output: LedSync, DALI
- Network input/output: based on RS485 specification
- DMX/LedSync-in update rate: 8ms
- Network resolution: 8 or 16 bit
- Network channels used by driver in 8-bit resolution: 4
- Network channels used by driver in 16-bit resolution: 8
- Communication: bidirectional for driver configuration and temperature read-out
- Configuration: via menu buttons and display or via TOOLbox and freely available PC software

**Certifications**

- CE: IEC 61347, EN 55015, IEC 61003, EN 61547

**ShowMaster**

- Nine standard shows or up to 20 customer-defined shows set at factory.
- User-defined shows (ShowMaster): up to 20 shows, via TOOLbox and PC software.
- Show selection: via menu buttons

**Environmental ratings**

- T<sub>a</sub> range: -20°C...50°C (-4°F...122°F)
- T<sub>c</sub> max: 65°C (149°F)
- T<sub>heat sink</sub> max: 60°C (140°F)
- Relative humidity: non-condensing

**User interface**

- Menu buttons: M, - and + (3)
- Display: segmented (4 x 16)
- Modes: colour/show/DMX/DALI
- Features: setup, lock, reset

**Connectors LINEARdrive 180**

- VDC: + and - (2)
- DMX in: +, - and shield (3)
- LedSync thru: +, - and shield (3)
- EXT in: 0...10V: + and - (2), 10K pot: + and - (2) or show switch: + and - (2)
- LED groups: - for group 1 through 4 (4)
- LED supply: +

**Connectors LINEARdrive 720**

- VDC: + and - (2)
- DMX in: +, - and shield (3)
- LedSync out: +, - and shield (3)
- DALI in: + and - (2)
- DALI out: + and - (2)
- EXT in: 0...10V: + and - (2), 10K pot: + and - (2) or show switch: + and - (2)
- LED groups: GND and - for group 1 through 4 (8)

**Dimensions**

- LxWxH: 153 mm x 50 mm x 23 mm  
6.02" x 1.97" x 0.91"

**Ordering information**

Description	Product	Order nr
LINEARdrive 180W Display	Linear 180/D	LIN180D1
LINEARdrive 720W Display	Linear 720/D	LIN720D1

