



## DMX Compatible Integrated Network Dimmer

### DimWheel Series

The DimWheel is a powerful one-button DMX controller that lets you set dim level, colour and show for LED drivers and DMX compatible luminaires. It is easy-to-install and meets EU, UK and US wall box size requirements. Also, it is compatible with most dimmer face plates available on the market.

### DimWheel Colour

The DimWheel Colour features the following operation modes:

- for general white LED lighting applications, the 1-channel mode lets you dim the light and turn it on or off.
- for applications requiring colour temperature control, e.g. mixing warm and cool white light, the DimWheel features a 2-channel mode. In this mode, you can set the colour temperature, dim the light and turn it on or off.
- for static and dynamic full colour applications (RGB and RGBW/A), the 3- and 4-channel modes offer complete colour or show control plus dimming and on/off control.

Colour control allows you to create any hue and pick a saturation level for this hue. Show control lets you run a show in DMX broadcast or chase mode and set the show speed.

### Dimming and colour: high control resolution

The DimWheel offers a large dynamic range from 100% down to 0.5%. For most applications, it suffices to have an 8-bit control resolution. In 8-bit DMX mode, DimWheel offers a gamma-corrected dimming curve. The 16-bit resolution guarantees extremely smooth brightness control and fine colour mixing, making the DimWheel the perfect one-button digital LED dimmer.

### Shows: broadcast and chase

DimWheel Colour offers two types of show modes: broadcast and chase. You can use broadcast mode for mood lighting where all connected luminaires receive the same set point (=colour) and use chase mode for linear dynamic applications. You can define and upload show sequences to the DimWheel Colour yourself by connecting the eldoLED TOOLbox to the DimWheel's LedSync-in interface and using the freely available TOOLbox PC software.



DimWheel Colour (EU/UK)

### Easy installation

The DimWheel fits into EU, UK and US industry-standard wall boxes. The DimWheel's mounting plate ensures easy installation into the wall box, and its push-in connectors and strain reliefs guarantee easy and tidy connection of wires.

### Setup is a breeze!

The DIP switches, which are accessible after mounting, allow you to set the operation mode, select the show mode (broadcast or chase) and set the network resolution to 8- or 16-bit.

### Features

- USITT DMX512A compatible
- One-button on-off/dimming/colour/show control
- Operating supply voltage range: 12V-32V DC
- DIP switches for configuration, accessible after mounting
- External switch interface allows remote show selection
- All settings saved to memory when light is switched off or when a power glitch occurs
- Front indicator LED for local show (speed), colour and dim level feedback

### Advantages

- Complete functionality solution offering LED show sequences, colour, dimming and on/off control
- Can be mounted/used like standard household dimmer
- Integrated back box and mounting plate simplify total system setup and installation

**Electrical data**

- Supply voltage: 12V-32V DC
- Maximum power: 2W
- Reverse polarity protected
- Processor: eldoLED DimLogic 4400 Series

**DIP switches**

- 1 and 2: set the controller for 1, 2, 3 or 4 channel operation mode
- 3: toggles between show and color mode (3 and 4 channel mode only)
- 4: sets show mode to broadcast or chase
- 5: sets DMX network resolution to 8 or 16 bit

**Connectors**

- V sup: + and - (2)
- External switch input: + and - (2)
- DMX in: +, - and shield (3)
- LedSync out: +, - and shield (3)



**Network control**

- Network input/output: USITT DMX512A, based on RS485 specification
- Output signal update rate: 8ms
- Number of network channels: 128
- Network resolution: 8- or 16-bit
- Communication: bi-directional for configuration and uploading of shows

**Operating modes**

- On/off
- Dimming: with gamma corrected dimming curve (8-bit resolution)
- Colour selection
- Show: broadcast and chase
- Show speed selection

**User interface**

- Encoder type: endless
- Ballistic effect: yes

**Dynamic effects**

- Control channel 1 - 64: 0 - 100%
- Control channel 65 -128: 0 or 100%

**Thermal data**

- Cooling: passive. No active cooling required.

**Environmental ratings**

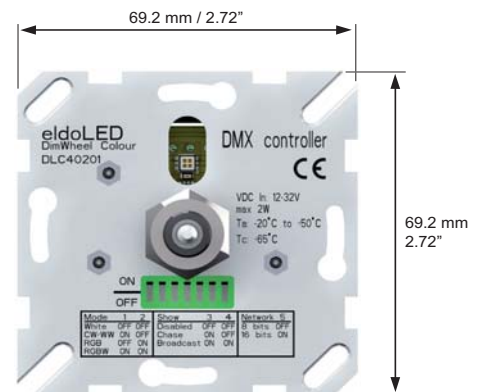
- Ambient temperature range: -20°C ... +60°C (-4°F... +140°F)
- Storage ambient temperature: -40°C ... +95°C (-40°F ... +203°F)
- Relative humidity: non-condensing

**Mounting data**

- Wall box compatibility: all common EU,UK and US standards
- Strain reliefs: on both sides, one for each connector
- Nut: for fastening an aesthetic face plate (M10)
- Mounting holes: 8x M3

**Dimensions**

- LxW of aluminum mounting plate: 69.2 mm x 69.2 mm / 2.72 in. x 2.72 in.
- Depth back box - mounting plate: 22.91 mm / 0.90 in.
- Depth back box - encoder: 39.26 mm / 1.55 in.



**Ordering information**

Description	Product	Order nr
Dimmer 1-4 channel white/colour LedSync	DimWheel Colour	DLC40201

For special form factors, connectors or other customized solutions, please contact us at OEMsales@eldoled.com.