

DMX Compatible Integrated Network Dimmer

DimWheel Colour

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.

Product offering



Product name	DimWheel Colour EU/UK
Part number (P/N)	DLC40201
Product description	DimWheel Colour, wall mount DMX controller, fits in standard EU wall box



Product name	DimWheel Colour US
Part number (P/N)	DLC40301
Product description	DimWheel Colour, US version, US wall mount DMX controller, fits in US single gang wall box

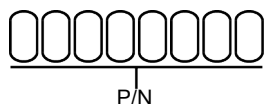


Product name	Faceplate
Part number (P/N)	DLA101W1
Product description	DimWheel faceplate kit, colour: white, BS4662 standard wall box faceplate, for use with DLC40201
Note	For special form factors, connectors or other customized solutions, please contact us at OEMdesk@eldoled.com . Please note that faceplate, wallbox and screws are not included with the DimWheel Colour.

Warranty

Warranty period	General Terms and Conditions
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Order number configurator



P/N	Part number of product
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Features

Compatibility	USITT DMX512A compatible
Control	one-button on/off dimming and colour/show control
Operating supply voltage range	12V-32V DC
DIP switches	for configuration accessible after mounting
External switch interface	for remote show selection
Memory	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

DimWheel Colour operation modes

General white LED lighting applications	1-channel mode to dim the light and turn it on or off
Applications requiring colour temperature control (e.g. mixing warm and cool white light)	2-channel mode to set the colour temperature, dim the light and turn it on or off
Static and dynamic full colour applications (RGB and RGBW/A)	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.

Easy installation

The DimWheel fits into EU, UK and US industry-standard wall boxes and is compatible with most dimmer faceplates. 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.

Electrical data

Supply voltage	12-32VDC, SELV equivalent
Maximum power	2W
Reverse polarity protection	yes
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)

User interface

Encoder type	endless
Ballistic effect	yes

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	

Dynamic effects

Control channel 1 – 128	0 - 100%
Control channel 129 – 256	0 or 100%

Environmental conditions

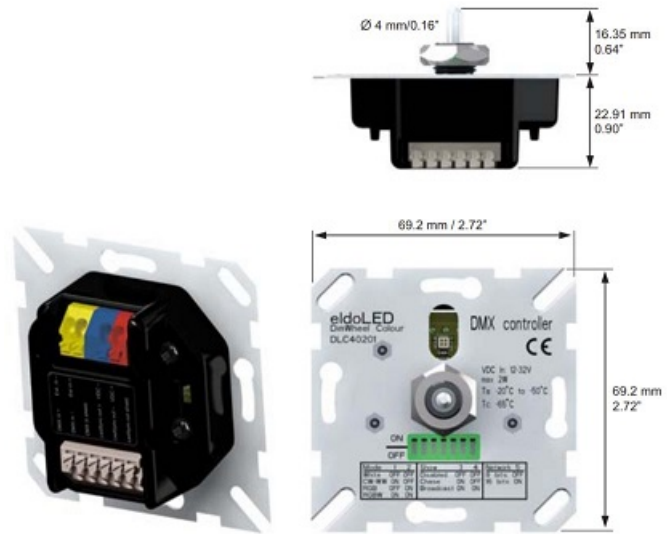
Operating ambient temperature (Ta) range	20 °C to +60 °C
Storage temperature	-40 °C to +95 °C
Humidity	non-condensing

Mounting data

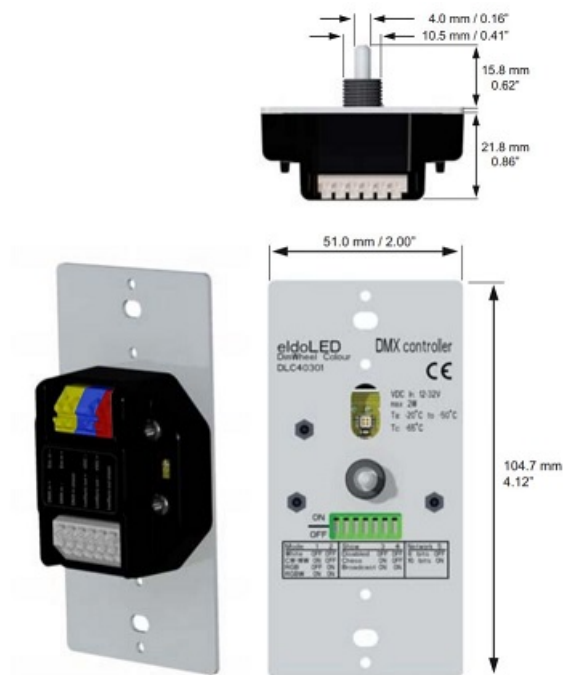
Wall box compatibility	universal EU/UK and US single gang wall box
Fixation DLC40201	fasten with two M3 screws. Choice of 8x M3 mounting hole positions.
Fixation DLC40301	fasten with two #6 tapping screws. 2x 4.5mm /0.177 inch mounting holes provided.
Faceplate compatibility	EU: universal faceplates (Gira, Busch Jaeger, Berker, Jung) UK: BS4662 compatible faceplates US: standard single gang duplex receptacle wall plate or coax wall plate (e.g. Cooper, Leviton, Lutron, Pass & Seymour)
Faceplate fixation DLC40201	M10 nut
Faceplate fixation DLC40301	2x holes for 6/32 UNC threaded screws
Strain relief	provision for wire straps on both sides (wire straps not included)

Mechanical details

DLC40201 DimWheel Colour EU/UK dimensions



DLC40301 DimWheel Colour US dimensions



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