

EURORACK 50+

Intelligent Digital Dimmer Rack

24 x 2.3 kW, very compact, all-digital dimmer rack for **wall mounting**, combining high quality with low cost and above average performance, for general purpose applications in stage and architectural lighting, whenever space, cost and reliability are the prime considerations.

Set-up Functions

- 5-key keypad, 12-character LED display and user-friendly scrolling menu for easy access to all dimmer functions.
- 10 user-selectable dimmer laws: linear r.m.s voltage, linear r.m.s to 120 V, TV laws (BBC, TV1, TV2), non-dim with hysteresis, fluorescent, linear r.m.s voltage with preheating, square law, user-programmable custom law.
- Voltage reduction factor for extended lamp life or variable load cable length compensation.
- 4000-step fade resolution, for noticeably smoother fades.
- Global or individual programming of dimmer law, patching, voltage reduction factor and smoothing.
- Memories set by recording DMX levels or via the menu.
- After loss of DMX data: maintain last levels, or wait and fade to one of the internal cues, or wait and fade to black.
- All programmed data saved for unlimited time.

Main Features

- first dimmer address selection.
- local test of a dimmer (steady or chaser).
- 10 dimmer laws selectable per dimmer.
- fade smoothing (4000-step resolution).
- last lighting cue maintained in case of DMX signal interruption.
- storage of a lighting cue.
- permanent storage of all programmed data.
- protection circuitry against accidental 400 V wiring.
- local status reporting: 400 V - overtemperature - fan failure - processor check - presence of DMX signal - DMX and analogue control levels.
- low noise fans for effective cooling, with automatic fan-stop.
- overtemperature protection through gradual dimmer fade out.



Power Supply

- 230 V / 400 V Star 3NPE (TN-S), 50/60 Hz, 80 A per phase. Phase voltage 200-264 V.
- Star/Delta and single-phase supply upon request.

Power Rating

- EURORACK 50 is suitable for continuous duty at 24 x 10 A at 35 °C ambient temperature (air intake).

Electrical Protection

- Individual dimmer protection by single pole MCB (standard).
- Optional 1P+N protection (N disconnected but not protected) by MCB or HRC-100 kA fuse with "fuse OK" neon indicator and slot for spare fuse.
- Optional **RCD protection** (Residual Current Device):
 - RCD - 30 mA (1P+N) supply protection per group of 4 dimmers (compulsory for IT/TT supply). Required quantity: 6.
 - RCD - 30 mA (1P+N) supply protection per group of 8 dimmers. Required quantity: 3.

Control Signals

- DMX512/1990 input on XLR5 and optional analogue inputs 0/+10 V or 0/370 μ A on DB25S. Simultaneous DMX and analogue inputs: Highest Takes Precedence (HTP).
- DMX512/1990 and/or Local Memories: local memories are either played back simultaneously with the DMX signal on a HTP basis, or override the DMX signal.

Presentation

Compact rack enclosure made of a very rigid assembly of steel panels and anodised aluminium extrusions, primarily intended for wall mounting. The front panel is divided into 3 removable parts providing easy access for maintenance.

Front Panel LED Indicators

- Presence of DMX signal
- Microprocessor running
- Error messages in clear (for ex. temperature warning, DMX error, ...)
- Display of DMX or analogue levels in %.

Local Controls without Lighting Console

- Chase
- Setting of a dimmer level
- Creation of a lighting cue

EURORACK 50 with Hard Patch

The removable lower front panel can host a hard patch available with a choice of standard European outlets; i.e.

- 24 x twin NF/CEBEC
- 24 x twin Schuko
- 24 x triple Swiss
- 24 x CEE 16A (P17)

Other output sockets upon request.

Cooling

- Convection cooling via the lateral aluminium extrusions (heat sinks) and forced air cooling through two 12 V brushless DC fans with automatic On-Off switching
- Overtemperature protection through gradual fade-out

Installation

EURORACK 50 is shipped as a complete unit, factory tested and ready for installation. No further assembling is required on site. EURORACK 50 can be mounted directly onto a wall, or with optional stand-off brackets to create 10 cm of trunking space behind the unit. The mains terminals and the DIN rail mounted load terminals are conveniently grouped in the cabling compartment. The load terminals are "N-disconnect" so periodical isolation testing of each outgoing N-conductor can be performed without removal of load wiring. The bottom panel is fitted with a PG31 steel pressure gland for supply cable, XLR5 connectors for the DMX signal, and 24 holes for output cables.

Safety

- Opto-isolated DMX input
- Protection circuitry against accidental 400 V wiring
- Cables, PCB's and insulating materials with self-extinguishing properties according to the UL 94 V0 standard

Supplied with:

- a kit of 24 universal seals for the output cables (version without patch only)
- instruction manual

Dimensions (mm) : 1022 x 555 x 132

Net Weight (kg) : 34

Packing

Dimensions (mm) : 1150 x 685 x 265

Gross Weight (kg) : 38

This equipment complies with all applicable European directives and carries a CE mark.

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