

EURORACK 50+

General Purpose Digital Dimmer Rack for Wall Mounting

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.
- Menu with different levels of access for different levels of users, protected against tampering.
- 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.
- Creation and storage of 20 lighting cues (19 + Priority) each with fade and wait times, for back-up cues, architectural lighting, or stand-alone operation.
- Memories set by recording DMX levels or via the menu.
- After loss of DMX data: maintain last levels, or wait and fade to black.
- All programmed data saved for unlimited time.



References

EURORACK 50+ without hard patch

24 x 2.3 kW - MCB/1P **ER50+/242M**

EURORACK 50+ with hard patch

24 x 2.3 kW - MCB/1P - 24 x twin
NF/CEBEC sockets

ER 50+/242M/C

24 x 2.3 kW - MCB/1P - 24 x twin
Schuko sockets

ER 50+/242M/D

24 x 2.3 kW - MCB/1P - 24 x triple
Swiss sockets

ER 50+/242M/H3

24 x 2.3 kW - MCB/1P - 24 x CEE
16A (P17) sockets

ER 50+/242M/CEE

Options and Accessories

MCB/1P+N instead of MCB/1P

PROT/MCB/1P+N/24

protection for 24 dimmers

Analogue inputs 0/+10 V for 24 dimmers

INPUT/ANA/24

RCD - 30 mA (1P+N) supply protection

per group of 4 dimmers

RCD10 / ER50

RCD - 30 mA (1P+N) supply protection

per group of 8 dimmers

RCD20 / ER50

Stand-off brackets for 10 cm trunking
space behind the rack

ARC/ERACK

Dimensions (W x D x H): 1022 x 555 x 132 mm

Net Weight : 34 kg

Packing : 1150 x 685 x 265 mm

Gross Weight : 38 kg

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Specifications

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.

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-wire 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, 24 holes for output cables, and one optional connector for analogue control.

Supplied with

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

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.

Power Supply

- 230 V / 400 V +/- 15 % Star 3NPE (TN-S), 50/60 Hz, with max. 80 A per phase.
- 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).

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

Protections and Safety

- Individual dimmer protection by MCB/1P (standard), or MCB/1P+N (option).
- Optional RCD - 30 mA (1P+N) supply protection per group of 4 or 8 dimmers.
- Protection circuitry against accidental 400 V wiring.
- Opto-isolated DMX input.
- Overtemperature protection through gradual dimmer fade-out.
- Cables, PCB's and insulating materials with self-extinguishing properties according to the UL 94 V0 standard.

Control Signals

- DMX512/1990 input on XLR5 and optional analogue inputs 0/+10 V or 0/370 µA 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.

Local Control without Lighting Desk

- Flashing of one dimmer for easy luminaire identification in a rig
- Chaser
- Setting of a dimmer level
- Creation, editing and play-back of 20 lighting cues

Types of Loads

- 220 V / 240 V tungsten halogen lamps (cold lamps allowed).
- Resistive loads.
- Fluorescent lighting with suitable ballasts.

Standard Diagnostics Functions

Presence of mains and DMX signal, processor check, 400 V wiring error, overtemperature, fan failure, DMX and analogue control levels, local test of a dimmer (steady, flash or chaser) and automatic self-test of control electronics, all information reported in real time on front panel indicators.

Cooling

- Convection cooling via the lateral aluminium extrusions (heat sinks) and forced air cooling through two low noise, 12 V brushless DC fans with automatic ON-OFF switching.

ADB - Your Partner for Light

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