

# EURODIM 2

## Digital Dimmer Rack, Plug-in Format



DE 3350

180 kW or 225 kW cabinet for full digital plug-in dimmer modules for professional theatre and television installation

- for accurate, stable and reliable performance, flexibility in particular situations
- 4000-step fade resolution, for noticeably smoother fades

### Set-up functions

- simple system programming via a keypad, and a very user-friendly scrolling menu
- 32-character alpha-numeric liquid crystal display
- menu configurable in 4 languages, protected against tampering
- 10 selectable dimmer laws per dimmer or per cabinet
- voltage reduction factor for extended lamp life or variable load cable length compensation
- global or individual programming of dimmer curve, patching, voltage reduction factor and smoothing
- automatic compensation for mains voltage fluctuations (optional)
- 32 local memories per cabinet, each with fade and wait times, for back-up cues, working lights, or stand-alone operation

### Electrical protection

- each dimmer is protected by a HRC fuse, with 'fuse OK' indicator integrated in the fuse-holder
- each dimmer crate is protected by HRC fuses, placed on the front panel for direct access
- dimmer protection is available in three versions: single-pole, single-pole + N disconnect, true double-pole
- dimmer crate protection is available in various versions: 3P, 4P; HRC fuses, mcb, mcb+rcd

### Residual current alarm system

- each dimmer crate can be equipped with an adjustable residual current protection (rcd + mcb)
- each cabinet can be equipped with a residual current (earth leakage) monitoring system and central digital read-out and alarms.  
The monitoring system does not switch any dimmer off

### Filtering

- TV broadcast quality filtering (BBC, TDF), large toroidal filter chokes

### Types of loads

- hard-fired thyristors for control of tungsten halogen lamps, resistive and inductive loads, transformer-fed low voltage lamps, fluorescent lighting with suitable ballasts
- relay and feed-through modules are available for non-dimmable loads

### Safety

- all data inputs are opto-isolated
- meets all current international safety standards

### System check, dimmer and load check

- up to 200 indicators show you at a glance the status of DMX data, microprocessors, temperature warning, and individual dimmers
- each dimmer can be tested from the dimmer cabinet
- dimmer fuse indicator, output voltage and load current indicators
- automatic self-test of the control electronics

### Flexible integration in control systems

- two DMX512/1990 inputs each with individual patch
- optional multiple protocol input (D-54, AVAB, CMX, AMX192 a.o.)



### Reliability, instant back-up

- designed for continuous operation at full rated load
- double control electronics provide instant back-up (option)
- three-phase supply for the control electronics for continuity of control in the event of a missing supply phase

### Ventilation

- assisted ventilation by means of three large low-noise tangential fans
- regulated speed and automatic stop

### Specifications

Alimentation : 3 NPE 400  
220 or 240 V  $\pm 10$  %,  
50 and 60 Hz

#### DD2 / 180

Dimensions (mm) : 905 x 705 x 1895  
Net Weight (kg) : 250

#### DD2 / 225

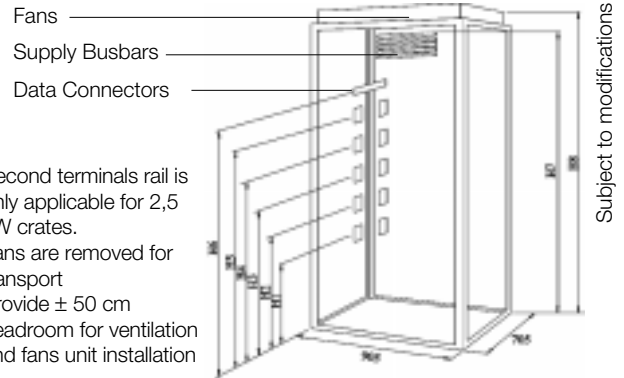
Dimensions (mm) : 905 x 705 x 2165  
Net Weight (kg) : 275

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## Characteristics

- Rated load of cabinets**
  - EURODIM 180 : 180 kVA
  - EURODIM 225 : 225 kVA
- Rated load of dimmers**
  - plug-in modules of
    - 2 x 2.5 kVA
    - 1 x 2.5 kVA FLUO
    - 1 x 5 kVA
    - 1 x 10 kVA
- Supply voltage**
  - 3 NPE 400, 220 - 10% to 240 V + 10%, 50 or 60 Hz (please specify when ordering)
- Protection per dimmer**
  - against overload and short-circuits by choke and HRC fuses
  - 12 A for 2.5 kW dimmer
  - 25 A for 5 kW dimmer
  - 50 A for 10 kW dimmer
  - Protection is integrated into the dimmer module.
- Dimmer laws**
  - Ten user-selectable dimmer laws:
    - linear r.m.s. from 0 to 220 V
    - linear r.m.s. from 0 to 120 V
    - TV
    - non-dim,
    - fluorescent lamps,
    - linear r.m.s. with preheating,
    - square law
    - and 3 spare laws (in EPROM)
    - Selectable 8-bit or 12-bit (2000 fade steps) operation
- Types of load**
  - incandescent lamps 220 or 240 V,
  - low voltage lamps via transformer,
  - hot cathode fluorescent lamps (Fluo Module),
  - inductive loads with a power factor between 0.5 and 1.
- Power factor**
  - at rated voltage and load: > 0.95(full conduction)
- Efficiency**
  - approx. 98% at rated load
- Range of regulation**
  - Full dimming of any incandescent lamp, rated between 1.5% and 100% of rated power of dimmer.
- Control inputs**
  - 2 multiplex digital inputs according to DMX512/1990 standard; opto-isolated
- Dynamic performance**
  - no overshoot nor oscillation of output voltage
- Cold Tungsten lamps**
  - allowed without damage to the thyristors
- Filtering**
  - audio frequency filtering against interference in audio/video circuits; TV Broadcast quality (BBC, TDF).
- Output voltage response time** : 30 ms typical



### Note :

- Second terminals rail is only applicable for 2,5 kW crates.
- Fans are removed for transport
- Provide ± 50 cm headroom for ventilation and fans unit installation

	DD2/180	DD2/225	2 x	Fluo		
H1	220	220	kW	2,5	2,5	5
H2	520	520				
H3	820	820	L	140	140	140
H4	1120	1120				
H5	N.A.	1420	H	87	87	87
H6	1390	1660				
H7	1700	1970	P	492	492	492
H8	1810	2080				
H9	1895	2165				
kg	250	275	kg	4,3	3,2	3,8
						7,1



### Diagnostic Option

The "ADB Diagnostic System" constantly monitors all the key components of the Eurodim 2 installation. It measures all main parameters, detects and analyses any eventual breakdown : no-load, thyristor fault, tripped fuse, short-circuit, DMX error. It suggests corrective actions and displays all this information on any standard PC located at the lighting control position.

The very user-friendly menu, with a choice of four languages, permits selection of a variety of display modes on a colour monitor. These may be printed to provide a hard-copy report of the general status of the installation as well as a logbook of faults and remedies.

The ADB "Diagnostic System" is totally independent from the lighting control desk, but can be linked to ADB's VISION 10. The user can interrogate the dimmer installation from a remote location whilst a show is in progress. Thus ensuring any necessary corrective action can be taken quickly and easily.

ADB - Your Partner for Light

ISO 9001 : 2000 certifié

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Lighting Technologies