

Leid Lda. is a Portuguese Company dedicated, since 1994, to the production of professional light equipment.

With his own I.R.D. department, Leid is able to customise all products in production...

Now let's presents you our general catalogue.

Dimmers:

TV Studios and Theatres

Dimmers:

Roadie Version FR-4815

Compact 6 to 12 Channel (2.4KW)

12 Channel (3.6KW): LB123/d

6 Channel (5.6KW): LB65/d

6 Channel (3.6KW): LTC63, LTB63

3 Channel (5.6KW): LTC35, LTB35

6 Channel Transistor: LTI 63

*4 Channel Dimmer and
Power Pack*

Controllers:

12 Channel Light Console: ML12D

DMX Splitters



Equipamento
electroacústico,
iluminação e
domótica Lda.

Quadrant

FR4815 FR2415

Digital Light Dimmer System with Flight-Case

Quadrant is proud to present a Dimmer System, prepared to give the best response to the most demanding applications such as Live-Shows, Theatres and TV Studios.

After several years, dealing with end user demands, we have successfully overpassed the challenge.

For that reason we have projected a system with as much specifications, mechanical protections and electrical safety devices as you can ask for:

- Anti-Shock System protection.
- Multi-function Meter: Line Voltage, current and frequency, instant power and power consumption.
- Heavy-duty Flight-Case with control, patch and input-output full access.
- 100mm swivel castors (two with brakes).
- Built-in Hot-Patch with complete cord set.
- Thermally controlled Fans.
- General thermal protection.
- Four R.C.D.s (DI=30mA).
- One M.C.B. Per channel.
- Any output configuration (Socapex Standard).
- Only **Four Rack-screws** for assistance.
- Built in Splitter.
- Easy to install on sites.

Each System can have up to 48 channels (3,600W).

Dimensions (w/ castors): 600x1185x790 (mm).
Weight: 185 Kg.

In order to adjust this system to any kind of application, we can customise our product, to give a full answer to customer demands.

This equipment complies with CE requirements.

Made by: **Leid Ida**. Rua do Município, 9 - 7490-243 MORA Telf.:+351.266 403 597 Fax.:+351.266 403 461
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ANTI-SHOCK SYSTEM



SOCAPEX OUTPUT SOCKET



HOT-PATCH + CORDS



POWER-LOCKS



Quadrant

Digital Light Dimmer Pack



Quadrant D1210

and D610 Digital Dimmer Packs are our new and smaller units and, like their brothers, have been projected to achieve the most exigent demands.

Both models are equipped with an electronic thermal sensor to control a Fan (avoiding a constant dust flow when not in use), and a thermal protection that disables the output stage, to prevent the unit from a dangerous rising temperature.

A new software "designed by our customers" gives to this unit better and most useful options:

- Possibility of controlling individually each channel level without a light desk (this level stays memorised even after power down): stand alone mode.
- After DMX signal as been detected, stand alone mode can be rejected, and dimmer only obeys to light desk control.
- Each channel can be programmed to work independently with one between five active curves plus a disable curve.

Each channel is protected from overloads by one M.C.B. (Magnetic circuit breaker) per channel.

A 2x16 character Liquid Crystal Display shows constantly the status of the equipment. The user can see the output of each channel in percentage, the DMX channel selected and the general curve that has been chosen (one of five).

All presets (DMX Channel and Curve) are stored on a non-volatile memory and remain after power off.

Specifications:

D610 - 6 channels

D1210 - 12 channels

Protocol: DMX 512 (XLR5).

Internal decoder units: Micro-Controller.

Air cooling: DC Fan thermally controlled by electronic sensor.

Protections: M.C.B. Per channel. General thermal protection (electronic).

Power output per channel (@ 240 Vac):

D610 and D1210 - 2.400W.

Output type: Internal Hard-Wire or Costumer demand connector.

Weight:

D610: 9 Kg

D1210: 14 Kg

This equipment complies with CE specifications.

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Digital Light Dimmer:

Quadrant LB Series Digital Dimmer Packs have been projected to achieve the most exigent demands.



LB Series are equipped with electronic thermal sensors in order to control a double Fan (avoiding a constant dust flow when not in use), and a thermal protection that disables the output stage, to prevent the unit from a dangerous rising temperature.

Each channel is protected from overloads by one M.C.B. (*Magnetic circuit breaker*) per channel. Each group of M.C.B. is separated from his neighbour to avoid self-heating and abnormal switch-off ("d" version has a built-in R.C.D.).

Three 14,2mm high LED Displays show the user the selected DMX channel and preset information. All channels have a true output monitoring as well as phase detection (each display monitors one phase). In case of missing a phase the correspondent display will blink. Three blinking displays represent DMX failure.

LB Series allows the user to preset, by a software option, a "General Pre-Heat."

All preset (DMX Channels and "General Pre-Heat") are stored on a non-volatile memory and remain after power off.

LB123 and *LB65*, have a "Test Menu" to give the installer or light-technician the possibility to check every output channels directly from the dimmer pack, without the need of any light desk or controller. Because some companies (rental or theatres) use both, 110 and 220 Volts bulb lamps, the test is internally adjusted to 40% to prevent 110V bulbs from a blow-up.

For permanent installations (Theatres, auditoriums, etc.) a quick plug version can be supplied on a 30U rack case, up to 72 channels (15 Amps.), or 36 channels (24 Amps.).

A Roadie version Flight Case with up to 48 channels and complete Hot-Patch is available upon request (FR4815).

Specifications:

LB123 - 12 channels

LB65 - 6 channels

Protocol: DMX 512 (XLR5).

Internal decoder units: three Micro-Controllers (one per phase).

Air cooling: Double DC Fan thermally controlled by electronic sensor.

Protections: M.C.B. Per channel. General thermal switches.

Power output per channel (@ 240 Vac):

LB123 - 3.600W.

LB65 - 5.700W.

Output sockets:

LB123 - 2 x 16 Pin Harting type (16Amp).

LB65 - 2 x 6 Pin Harting type (35Amp).

Weight: 21 Kg

This equipment complies with CE specifications.

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Digital Light Dimmer:

LTC62 - LTB62

LTC63 - LTB63

LTC36 - LTB36



Quadrant LTC and LTB Series Digital Dimmer Packs have been projected for applications where space is not a problem.

All models are equipped with thermal sensors in order to control a Fan (avoiding a constant dust flow when not in use), and a thermal protection that disables the output stage, to prevent the unit from a dangerous rising temperature.

Each channel is protected from overloads by one M.C.B. (*Magnetic circuit breaker*) per channel.

As an evolution from LTB series, LTC series has the possibility to store on each channel a minimum level and individual curve. With this minimum level, one can program a scene and work on stand alone mode, or preset a preheat level. All channels have a true output monitoring as well as phase detection.

For permanent installations (such as Theatres and auditoriums) a quick plug version can be supplied on a 42U rack case, up to 60 channels (15 Amps.), or 30 channels (25 Amps.).

Specifications:

LTC62 / LTB62 - 6 channels

LTC63 / LTB63 - 6 channels

LTC36 / LTB36 - 3 channels

Protocol: DMX 512 (XLR5).

Internal decoder units: Micro-Controller.

Air cooling: DC Fan thermally controlled.

Protections: M.C.B. per channel. General thermal switch.

Power output per channel (@ 240 V): LTC62 / LTB62 - 2.400W.

LTC63 / LTB63 - 3.600W.

LTC36 / LTB36 - 6.000W.

Output sockets: LTC62 / LTB62 and LTC63 / LTB63 - Schuko, IEC, or 16 Pin Harting type.

LTC36 / LTB36 - CE or 6 Pin Harting type.



S6P
DMX 512 Splitter

S6P is a DMX 512 Splitter from **Quadrant** with one input and six outputs (five of them opto-isolated from input and from each other).

S6P has a brother specialised on permanent installations: **S6**. This unit is similar to the previous one with a single difference: all connectors are placed on a back panel.

Specifications:

In/Out: 1 Input: 1+ 5 opto-coupled outputs (XLR5).

Mains: 240Vac.

This equipment complies with CE specifications.

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Digital Light Dimmer (with Transistor Active Control System): **LTI62** **LTI63**

Quadrant Digital Dimmer Packs with *Transistor Active Control System*, have been projected to achieve the most exigent demands on power control with virtually no noise.

All models are equipped with three thermal controlled Fans (avoiding a constant dust flow when not in strength), as well as an individual thermal protection in case of dangerous rising temperature.

All units have a LCD, where a comprehensive Menu helps you to program the Dimmer setup. LTI63 is able to address each channel to his own curve and store one programmable scene.

For better monitoring, each unit is equipped with 9 LED's: three to identify a phase fault, and six that are a real output load monitors (each LED is driven by the output current sensor).

All channels are electronically protected against overloads and over voltage.

For permanent installations (such as Theatres and auditoriums) a quick plug version can be supplied on a 30U rack case, up to 60 Channels.

Specifications:

LTI62 - 6 Channels (10 Amps. per channel)

LTI63 - 6 Channels (15 Amps. per channel)

Protocol: DMX 512 (XLR5).

Internal decoder units: Micro-Controller.

Air Cooling: DC Fan thermally controlled.

Protections: Electronic.

Power output per channel (240V):

LTI62 - 2.400W

LTI63 - 3.600W

Output sockets: Schuko, CE, IEC, or 16 pin Harting type.

This equipment complies with CE specifications.

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Quadrant

12 Channel Digital Light Console with Merger*:

*dedicated Merger

ML12D is the newest **Quadrant** 12 Channel Digital Light Console.

The **ML12D** is mainly designed for ambient and architectural light control applications (lights on Bars and Halls in Hotels, Restaurants, Theatres and similar).

As **ML12D** only controls twelve channels, this could be disagreeable on some applications, where more channels are needed. Normal consoles need a DMX cable for each unit, thus creating some complexity on installation with inherent loss of flexibility. Those consoles almost bring us to the complex cable circuitry of analogue devices.

The solution could be some DMX Mergers, but this equipment cost much more than the consoles themselves . . .

Our engineers have created a console with a **built-in dedicated Merger**, introducing you into a new world of simplicity. You just need to interconnect the input of your desk with the output of the next ML12D, using a Double Screened Pair Cable on a "Daisy Chain interconnection." This second ML12D is going to control 13 to 24 channels, and you can interconnect as much consoles as you need, up to 42 units.

Specifications:

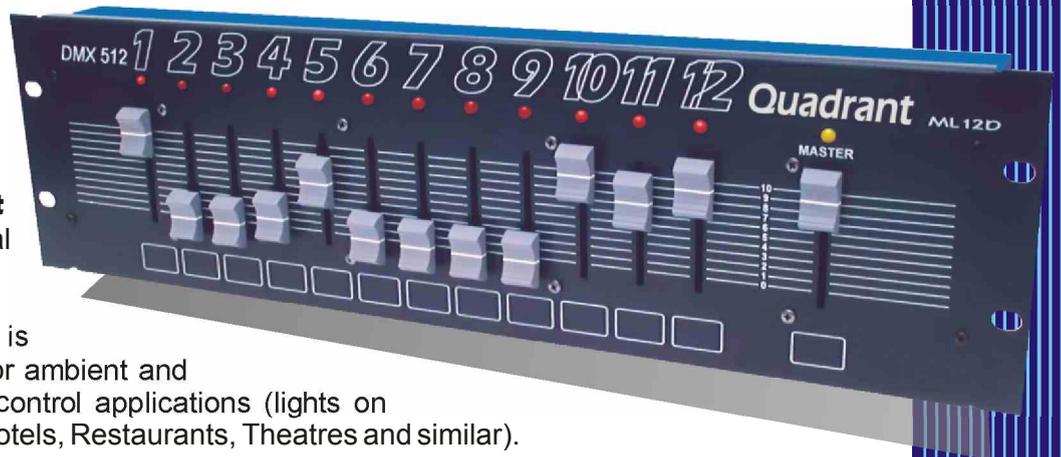
- 12 Channels plus one Master
- Built in dedicated Merger.
- XLR5 male and female metallic connectors:
 - Pin 1: Ground
 - Pin 2: Standard DMX512 Data (-).
 - Pin 3: Standard DMX512 Data (+).
 - Pin 4: Digital intercommunication Serial Data (*).
 - Pin 5: Digital intercommunication Serial Data (*).
- 19", 3U panel.
- 40mm Slide potentiometers.
- Power Supply: External 12 Volt DC (**).

(*) TTL Compatible.

(**) Not included.

This equipment complies with CE specifications.

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Quadrant

Dimmer + Power Pack

Digital Dimmer and Power Packs:

PD405D

PP405D

PR405D

Quadrant Digital Dimmer and Power Packs have been projected to achieve the most exigent demands.

All models have four channels and are constructed on a rugged metallic box prepared for several applications, since wall mounting till truss or 19" panel mounting.

Each channel is protected from overloads by individual fuses. All channel fuses have direct access from a front panel.



Specifications:

PD405D - 4 Channels Dimmer Pack (5 Amps. per channel: 1.200W@240Vac).

PP405D - 4 Channels Power Pack (5 Amps. per channel: 1.200W@240Vac).

PR405D - 4 Channels Relay Power Pack (5 Amps. per channel: 1.200W@240Vac).

Protocol: DMX 512 (XLR5).

Internal decoder units: Micro-Controller.

Air Cooling: Convection.

Protections: Fuse.

Analogue Dimmer and Power Packs:

PD405

PP405

PR405

Quadrant Analogue Dimmer and Power Packs like their digital brothers, have been projected to achieve the most exigent demands.

All models have four channels and are constructed on a rugged metallic box prepared for several applications, since wall mounting till truss or 19" panel mounting.

Each channel is protected from overloads by individual fuses. All channel fuses have direct access from a front panel.

Specifications:

PD405 - 4 Channels Dimmer Pack (5 Amps. per channel: 1.200W@240Vac).

PP405 - 4 Channels Power Pack (5 Amps. per channel: 1.200W@240Vac).

PR405 - 4 Channels Relay Power Pack (5 Amps. per channel: 1.200W@240Vac).

Protocol: Analogue 0-10V (DIN5-180°).

Air Cooling: Convection.

Protections: Fuse.

All models comply with CE requirements.

Digital Light Dimmer Cabinet

Quadrant is proud to present our ultimate Dimmer System.

This equipment has been designed to give the best answer to the most demanding applications on Theatres and TV Studios.

After several years, dealing with end user demands, we've had one more time, successfully overpassed the challenge of new requirements.

For that reason we have projected a system with as much specifications and electrical safety devices as you can ask for.

Even for twelve channel units, our engineers have achieved a solution, not only simple to install, but also for an easy assistance due to the ZERO CABLE drawer type units used on those rack cabinets.

To prevent from those well known DMX problems when a dimmer is removed from the installation, we have inserted a Opto-Insulated DMX Splitter on the equipment.

The costumer can define either the number of channels per cabinet (up to 96 channels) or his output power: a mixed combination of 3.6KW (multiples of 12) or 5.7KW (multiples of 6) is possible on the same cabinet.

The system is so versatile that 12 channel 3.6KW dimmers can be substituted by 6 channels 5,7KW ones (with inherent channel coupling in parallel).

All channels are protected by Magnetic Circuit Breakers (MCB's).

The dimmer units (with 12 or 6 channels) are individually protected by one 63Amp. RCD (DI = 30mA).

Each cabinet is provided with three panel lamps (one per phase with individual fuse) to warn or inform that mains is on.

One protected (16 Amp.) outlet shuko is on the front panel for technical assistance purposes.

The cables (supply and outputs) can enter the cabinet either from top, bottom or back side.

The technician doesn't need to have "child hands" cause inside the cabinet we have enough room to work. This room is also essential for a proper ventilation.

On standard version, all output connections are Hard-Wire (6mm or 10mm DIN Rail Terminal Blocks, depending on channel output power) but there are other possibilities like Harting or Socapex type connectors.

Finally, the cabinet is provided with a well dimensioned 500 Amperes Power Bars and enough space to curve the Main cables.

Dimentions: 700x800x1980 mm

This equipment complies with CE requirements.

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Drawer Type Units



Hard-Wire Outputs



500 Amp. Power Bars



Quadrant