WORK PRO W

Lighting
09/10

WORK®PRO W

WORK is a brand of **EQUIPSON** s.a

Since 1995, **Equipson S.A.** offers an exclusive range of professional audio and lighting products, truss system and accessories for the entertainment industry.

With its leading brand **WORK®**, the company aims to offer innovative and competitive products, with great efforts of our R&D department in designing highly technological devices. A special care is taken in electronic design and hardware packaging. **WORK®** products have been designed to meet the real needs of the industry,by offering an adequate answer for almost any installations and touring applications.

Every year, the company takes part to the main international trade shows. **WORK®** products are of course distributed over the 5 continents.

Facade of Equipson S.A.

Dear friend,

We are very proud to send you this new 2009/10 catalogue!
This publication is very special for us, as it represents years of efforts dedicated to people in the trade with the will to offer an exclusive range of professional audio and lighting products.

As you know, we have been strongly investing on our R&D department over the last years, devoting a full plant for **WORK®** product development and innovation. Today it bears fruits and so you will discover in this new catalogue exclusive products that perfectly meet professional needs. As a recognition of this strategy of research and technological development, **WORK®** has received the stamps of IMPIVA: the European union recognizes company's contribution to its sector.
Regarding quality process, there is a constant upgrade of existing products, taking into account user experiences and commentaries. We take care of the overall design of products, from internal components to finishing. A complete revision of products is done when a new production starts.

For maximum convenience, **WORK®** products have divided in four catalogues:
  · **Audio catalogue:** We present full solutions for any of your audio installations, by offering an adequate answer for almost any installations (airports, museums, auditoriums, theatres, bars, etc.) and touring applications.
  · **Lighting catalogue:** Lighting designers and professional VJs will take advantage our product selection, with an impressive range of LED fixtures and controllers.
  · **Towers and truss catalogue**: Even if quality and reliability of **WORK®** lifting towers have been proved over the years, we still develop new models and improve existing ones. We ensure that they all achieve the strictest international security norms.
  · **Accessories catalogue:** We offer all the accessories required for your audio/lighting installations. We have extended our selection to offer accessories suitable with the newest technologies.

Every years **WORK®** audio and lighting products are shown at all the important international trade shows (PLASA Show, Prolight+sound, Afial, Infocomm, etc.). This is the best opportunity to meet our engineers and ask anything you want about new products. We will be proud to help you in any of your projects.

Best regards,

José Vila

lighting

lighting

WORK PRO **W**

LightON 3
LightON 5
DMX consoles

NEW

LightON 3

LightON 5

Connection example of a VGA monitor and LighON consoles. (MONITOR NOT INCLUDED).

Lighting consoles LightON

LightON series is composed of two consoles of 512 DMX channels designed for conventional lighting, moving lights and LEDs. Their main difference is the number of faders they feature (24 for **LightON 3** and 48 for **LightON 5**).

Operating modes.

Both units provide 6 operating modes: Single scene, Double scene, Sub Master, Moving Light, Led and Memory.
First two modes allow the selection of scenes and their edition (time fade). These scenes are triggered with A and B faders and sent to their respective outputs.
Using the Sub Master mode, user gets access to any of the 1152 programmable scenes (48 scenes x 24 pages) that can be triggered with adjustable fade time. Crossfade is available between two shows. Moving Light mode allows the full control of moving lights and scanners. Many fixtures can be controlled together. LED mode is dedicated to RGBA LED fixtures control. It provides the effects, groups and patches for an easy control of units.
The many scenes available and their easy creation increase possibilities of **LightON consoles**, whatever the operating mode selected.

Enjoy the advantages of a visual console.

LightON consoles have been designed to provide a visual interface. Included LCD display gives usera clear information about the different devices. Its back-lighted buttons (by RGB LED) change their colour depending on the state of the console.
LightON consoles also feature an optional **VGA monitor output**. Most demanding users who need additional information can now connect their console to an external monitor and get all the details they want.

Advanced communication.

Thanks to the USB port, user can download/upload data and upgrade internal software. The Ethernet connector allows the connection with other fixtures integrated in an **ArtNet** network.

60 x 128 dot LCD display. Back-lighted buttons change their colour depending on state and function. Predetermined channels for LED fixtures control (RGBA) and control for Movie Lights (PAN/TILT, etc).
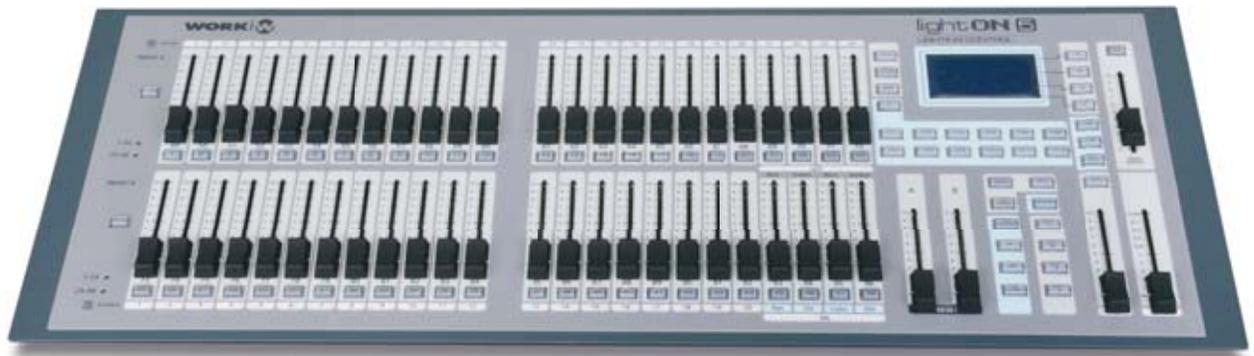
VGA card (optional).

ArtNet connector for LightON integration in Ethernet network. USB interface for internal software upgrading. VGA connector for monitor connection allowing visualization of channel states (MONITOR NOT INCLUDED).

STAGE DMX CONTROLLERS

light ON

LightON 5

LightON 3

REAR PANELS

LightON 5

LightON 3

FEATURES

- Multi purpose lighting consoles: conventional lighting, moving heads and LED fixtures.
- 60x 128 dot LCD display with contrast control.
- USB port for download/upload data and upgrade internal software.
- ArtNet port for a fast communication with compatible devices.
- 6 operating modes: Single scene, Double scene, Sub Master, Moving Light, LED and Memory.
- 24 faders (**LightON 3**) or 48 faders (**LightON 5**) for conventional lighting, moving heads and LED fixtures.
- 1152 programmable scenes (48 scenes x 24 pages) in Sub Master mode for conventional lighting.
- Control of 8 moving lights (**LightON** 3) or 24 moving lights (**LightON 5**), with up to 40 channels each. 20 playbacks of 99 steps each, using Moving Light mode.
- Control of 8 RGBA LED fixtures (**LightON 3**) or 24 RGBA LED fixtures (**LightON 5**). 20 playbacks of 99 steps each, using LED mode.

- 12 effects with programmable fade time and speed (up to 99 steps for each effect).
- Memory mode to mix Sub master, Moving Light and LED operating modes.
- Grand Master fader to control the overall output.
- A and B faders with separate output that allow crossfade between them.
- Blackout function.
- Back-lighted buttons that change their colour depending on their state.
- Port for an optional VGA card (800x600 pixels).
- Main supply: DC 9-12 V, 2 A (power supply unit included).
- Dimensions (WxHxD):
    LightON 3: 483 x 265 x 66 mm.
    LightON 5: 718 x 265 x 66 mm.
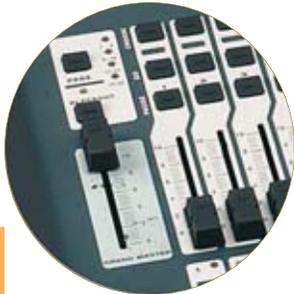
STAGE DMX CONTROLLERS

WORK

GALAXY DMX

DMX console

Slot for 32MB Compact Flash cards (play and record functions).

Grand Master for all fixtures.

Joystick for PAN/TILT control from 8 to 16 bits (selectable).

GALAXY DMX has been designed to combine in a same console all the controllers required for lighting control. It features different sections: for conventional lighting control, for moving head control and for independent flash and DMX fog machines.

Intuitive interface.
Interface for creation and edition is very intuitive and ensures the perfect control of all the parameters. Two LCD displays provide a fast visualization of the state of the fixtures and an easy access to the different menus.
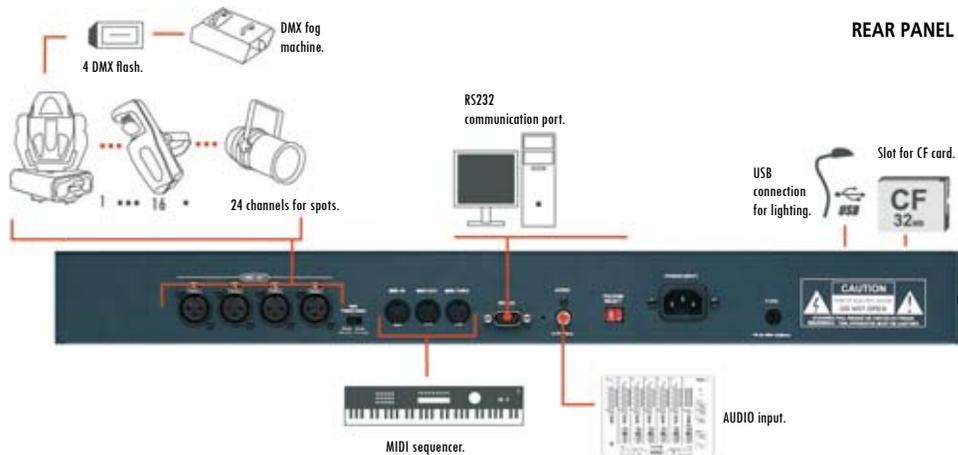Programs and libraries can be edited as files and transferred or uploaded by the console, using the RS232 port communication or the slot for a 32 MB compact flash card.

Control capacity.
Internal storage capacity of the console is very useful, as it allows the creation of many programs for spots and robots control. Actually, it creates up to 48 programs for conventional lighting, 48 for robots and other 20 for DMX flashes. With 512 DMX channels available, **GALAXY DMX** can control 16 robots, 24 conventional lighting fixtures, 4 DMX flashes and a DMX fog machine.

FEATURES

- 512 DMX channels (16 robots, 24 conventional lighting fixtures, 4 DMX flashes and a DMX fog machine).
- 48 programs for fixtures (48 steps per program).
- 48 programs for robots (48 steps per program).
- 20 programs for flashes.
- Internal library configurable for 256 robots.
- Joystick for PAN/TILT movements.
- RS232 communication port and slot for 32MB compact flash card.
- MIDI interface.
- Blackout function.
- Main supply: AC 240/120 V. (power supply unit included).
- Dimensions (WxHxD): 626 x 384 x 103 mm.
- Weight: 14 kg.

DMX fog machine.

4 DMX flash.

24 channels for spots.

RS232 communication port.

REAR PANEL

USB connection for lighting.

Slot for CF card.

CF 32₪

MIDI sequencer.

AUDIO input.

STAGE DMX CONTROLLERS

This hybrid console (conventional lights and robots) with reduced dimensions is a great solution for small/medium night clubs and mobile DJs.

Control capacity.

With 136 DMX channels, **NEMESIS 136 DMX** ensures the full control of 8 robots (16 channels each) and features 8 exclusive channels for control and dimmering of conventional lighting. Both controls have their own section.
All the programs can be executed with speed time defined by the internal memory, speed fader, MIDI interface or even with audio synchronization system. For a better precision in PAN/TILT channel configuration, **NEMESIS 136 DMX** has an ergonomic joystick. The console provides fast access buttons to previously recorded scenes of robots and spots. Many robots can be controlled together for maximum convenience.

The LCD display gets access to real time information: it shows parameters and their current value.

Designed for mobile applications.

Internal memory of **NEMESIS 136 DMX** can store up to 96 programmable scenes for spots, 8 programs for robots and 6 for spots (up to 99 steps each). A slot for a 32 MB compact flash card allows storing and sending the information. Its rubber shock protection ensures that the console will not suffer any damage during transport and live shows. It can also be fixed to a 19" rack.
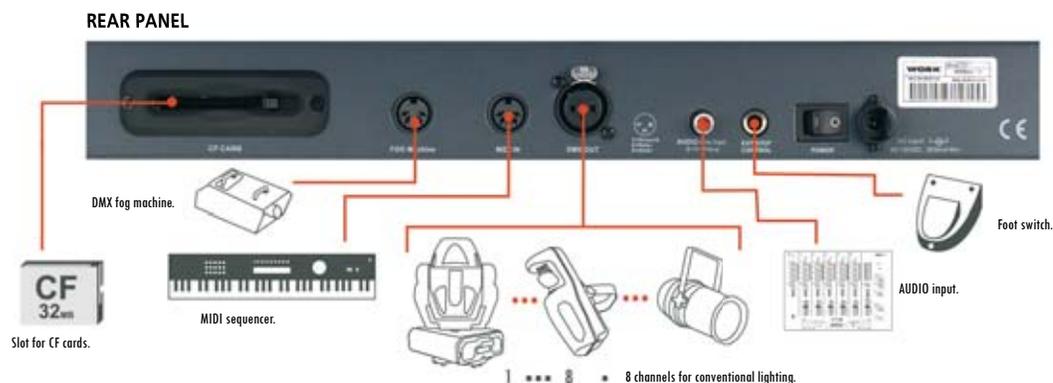

Control interface with LCD display.

Patch joystick for PAN/TILT movements.

FEATURES

- 136 DMX control channels.
- 8 robots, each one with up to 16 channels.
- 8 channels for conventional lighting.
- 96 programmable scenes for robots.
- 96 programmable scenes for spots.
- 8 programs for robots and other 6 for spots (with 99 steps each).
- 16/8 bit resolution for PAN/TILT movements.
- Ergonomic joystick for PAN/TILT control.
- Slot for 32 MB compact flash card.

- Connection for external foot switch and fog machine trigger.
- Blackout function.
- MIDI interface.
- Memory against current failures.
- Removable rubber shock protection.
- Main supply: DC 9-15 V, 600 mA. (power supply unit included).
- Dimensions (WxHxD): 495 x 188 x 88 mm.
- Weight: 5 kg.

Rubber side protections.

REAR PANEL

DMX fog machine.

Slot for CF cards.

MIDI sequencer.

8 channels for conventional lighting.

Foot switch.

AUDIO input.

STAGE DMX CONTROLLERS

2
consoles-in-one:
DMX and
MIDI

SCAN 1000 DMX

DMX console

RACK SCAN
(optional).

Backup Memory stick (optional).

USB port and fog machine control.

SCAN 1000 DMX is very intuitive and provides the functions to create many different scenes. It controls up to 12 scanners (each one with 16 channels) for a total of 192 DMX channels.

The console features an internal programming capacity of 30 banks of 8 scenes each and 12 chases of 240 programmed steps. All these chases and scenes have can be automatically programmed, with parameters like speed or fade time. They are controlled by processor speed, by MIDI interface or even with audio synchronization system (it has an external connector and a microphone).

For a manual control of robots and scanners, PAN/TILT movements can be patched to the joystick of the console. This module can be switched for two Jog-wheels (one for each movement).

It provides a USB port for data transfer or even console backup. It is also useful to connect many **SCAN 1000 DMX** together and so send/receive data in DMX mode. In addittion its 5V supply can be used to connect a LED Lamp.

FEATURES

- Console designed for intelligent lighting control.
- 192 DMX control channels.
- Control of 12 scanners with up to 16 channels each.
- Fader Speed and Fade time.
- 30 banks of memory, each one with 8 programmable scenes.
- 12 programmable chases (240 steps for each chase).
- Configurable PAN/TILT and Fade Time.
- MIDI control for banks, chases and blackout.
- Joystick for PAN/TILT movements.
- Connection for external foot switch and fog machine trigger.
- Internal microphone and Line connection for audio synchronization.
- RS232 and USB port to send/receive data.
- USB ports for lamp or memory stick connection.
- Main supply: DC 9-15V, 500 mA. (power supply unit included).
- Dimensions (WxHxD): 483 x 82 x 135 mm.
- Weight: 2.2 kg.

In this new version, **SCAN 1000 DMX** features an additional USB port on the rear panel to connect a PC and convert it into a MIDI console. In this configuration, it becomes possible to control any audio/lighting/video softwares that accept MIDI control: ArKaos Grand VJ, Simulight, Sunlite, Traktor and others softwares related to DJ, VJ and lighting which can be controlled by MIDI software.

Removable rubber side protections.

REAR PANEL

SCAN 1216 DMX
DMX console

RACK SCAN (optional).

SCAN 1216 DMX is a compact lighting console for intelligent lighting like scanners or moving heads.
It features 192 DMX control channels that can manage up to 12 scanners and moving heads (16 channels each). These channels are integrated in two scenes of 8 channels accessible with a simple push button.

Control is not only manual, as **SCAN 1216 DMX** provides 30 banks of 8 programmable scenes (max. 240 programmable scenes) and other 6 chases per scene. Speed and fade time can be configured for any created program. The powerful programming function allows the addition of steps, the copy of scenes and scanner programming (that can be easily deleted).

SCAN 1216 DMX has two Jog-wheels that patch PAN and TILT channels for an intuitive control of lighting fixtures using these functions. Both channels are reversible.
All the programs stored in the console can be controlled with the speed control Jog-wheel, Tap Sync function, audio synchronization system (thanks to the internal microphone) or even MIDI function. The latter can activate 15 banks of scenes, 6 chases and the blackout function. Two **SCAN 1216 DMX** can be connected together to copy or exchange their respective programming banks and scenes.

Its rubber shock protection ensures that the console will not suffer any damage during transport and live shows. It can also be fixed to a 19" rack.

FEATURES

- Lighting console designed to control 192 DMX channels (12 robots of 16 channels).
- 30 banks of 8 programming scenes.
- 6 chases per scene.
- Jog-wheel for PAN/TILT functions (reversible).
- Copy of banks and scenes between consoles.
- Speed, audio, MIDI and Tap Sync synchronization.
- Blackout function.
- DMX polarity selector.
- Push button for fog machine trigger.
- Memory against current failures.
- Main supply: DC 9-12 V, 300 mA (power supply unit included).
- Dimensions (WxHxD): 483 x 132 x 73 mm.
- Weight: 2.5 kg.

Rubber side protections.

REAR PANEL

STAGE DMX CONTROLLERS

SCAN 812 DMX

DMX console

RACK SCAN (optional).

SCAN 812 DMX is a compact lighting console for intelligent lighting like scanners or moving heads. It features 192 DMX control channels that can manage 12 scanners and moving heads with 16 channels each. These channels are integrated in two scenes of 8 channels accessible from a simple push button.

SCAN 812 DMX provides 30 banks of 8 programmable scenes (max. 240 programmable scenes)

and other 6 chases per scene. Speed and fade time can be configured for any created program. The powerful programming function allows the addition of steps, the copy of scenes and the full programming of scanners (that can be easily deleted). A USB port is available to connect a lamp.

Its rubber shock protection ensures that the console will not suffer any damage during transport and live shows. It can also be fixed to a 19" rack.

Removable rubber side protections.

FEATURES

- Lighting console designed to control 192 DMX channels (12 robots of 16 channels).
- 30 banks of 8 programming scenes.
- 6 chases per scene.
- Copy of banks and scenes between consoles.
- Speed, audio, MIDI and Tap Sync synchronization.
- Blackout function.
- Memory against current failures.
- Main supply: DC 9-12 V, 300 mA (power supply unit included).
- Dimensions (WxHxD): 483 x 132 x 73 mm.
- Weight: 2.5 kg.

REAR PANEL

STAGE DMX CONTROLLERS

SCANPLAYER II DMX
DMX console

SCANPLAYER II DMX is a compact lighting console for intelligent lighting fixtures featuring 64 DMX channels (up to 8 robots of 8 channels each). Thanks to the ergonomic joystick and for maximum convenience, channels are patched to a unique control.

Up to 96 scenes and 4 programs can be programmed to patch robots and use parameters such as fade time, speed o Tap Sync (chase is executed using manual pulse).

Any data can be transferred or uploaded by the console, using the RS232 port communication or the slot for a 32 MB compact flash card.

Interface for scene creation and edition.
Ergonomic joystick to patch PAN/TILT channels.

FEATURES

- Lighting console designed to control 64 DMX channels (8 robots of 8 channels).
- 96 programming scenes.
- 16/8 bit resolution for PAN/TILT.
- Slot for a 32 MB compact flash card.
- RS232 port communication.
- Connection for fog machine trigger.
- Blackout function.
- Memory against current failures.
- Main supply: DC 9-15 V, 500 mA (power supply unit included).
- Dimensions (WxHxD): 360 x 193 x 74 mm.
- Weight: 2.2 kg.

Channel controls, Pages/Scenes/Mode selection.

REAR PANEL

USB connection for lighting gooseneck.

Slot for CF card.

RS232 communication port.

DMX fog machine.

STAGE DMX CONTROLLERS

WORK

STAGE 4824 DMX

DMX console

STAGE 4824 DMX is a conventional lighting console that features all the functions required for applications like theatres, studios and stages.
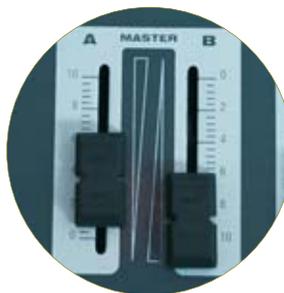
Its internal memory, with 48 programs and 4.600 steps, allows its use in almost any situation. 48 channels outputs can be divided in 2 x24 to create 2 different scenes and switch them with a crossfader movement. Its backup allows storing many configurations of scenes and chases for different events, and it is possible to get access to its memory and edit parameters. Many programs, scenes and chases can be edited at the same time and independently, providing a great range of effects with a small memory data base. Trigger of shows can be remotely programmed using MIDI.

Its memory against current failures ensures that the console will maintain the position of the show. Its rubber shock protection guarantees that it will not suffer any damage during transport and live shows.

FEATURES

- 48 DMX control channels for conventional lighting.
- 96 programs (4 pages of 24 programs).
- DMX address patchable for all channels.
- Flash switches for all channels.
- Fade time control: from 0 to 10 min.
- Memory against current failures.
- Speed, audio, MIDI and Tap Sync synchronization.
- Connection for external foot switch and fog machine trigger.
- Password to avoid any undesired external manipulations.
- 12 factory preset programs.
- Main supply: DC 12-20 V, 500 mA
  (power supply unit included).
- Dimensions (WxHxD): 712 x 111 x 85 mm.
- Weight: 7.2 kg.

RACK STAGE 15 (optional).

Reversed masters for preparations.

Fog machine control.

REAR PANEL

MIDI sequencer.

48 channels for dimmer DMX.

AUDIO input.

Foot switch.

DMX fog machine.

STAGE DMX CONTROLLERS

STAGE 2412 DMX
DMX console

RACK STAGE 10
(optional).

STAGE 2412 DMX is a conventional lighting console featuring 24 control channels that can be divided in 2 x12 to create 2 different scenes and switch them with a crossfader movement.

The latest software version includes a Patch function when each fader can be patched to any channel in the DMX universe.

Its internal memory, with 48 programs (36 + 12 factory) and 4.600 steps, allows its use in almost any situation. Its backup allows storing many configurations of scenes and chases for different events. It is possible to get access to its memory and edit parameters.
User can choose between many modes to trigger chases: Speed control, Audio mode, Standard Beat function or MIDI (in this case, each MIDI channel represents a channel of the console, so it is possible to transfer data from an external MIDI device).

Its memory against current failures ensures that the console will maintain the position of the show. Its rubber shock protection guarantees that it will not suffer any damage during transport and live shows. It can also be fixed to a 19" rack.
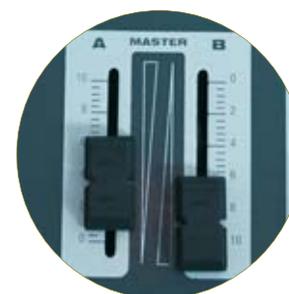
FEATURES

- 24 DMX control channels for conventional lighting.
- 96 programs (4 pages of 24 programs).
- DMX address patchable for all channels.
- Flashes switches for all channels.
- Fade time control: from 0 to 10 min.
- Memory against current failures.
- Speed, audio, MIDI and Tap Sync synchronization.
- Connection for external foot switch and fog machine
  trigger.
- Password to avoid any undesired external
  manipulations.
- 12 factory preset programs.
- Main supply: DC 12-20 V, 500 mA (power supply
  unit included).
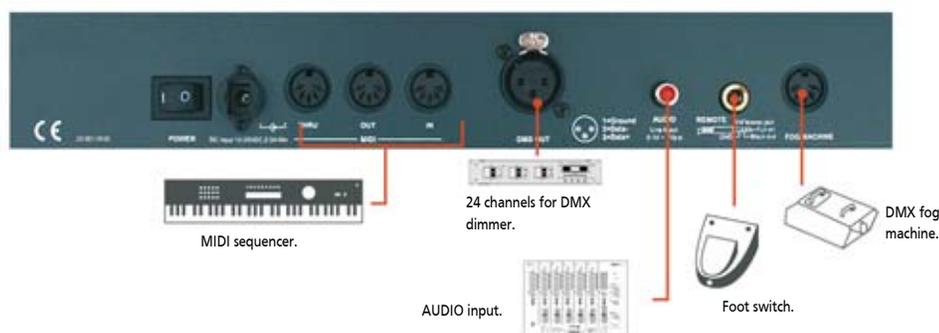- Dimensions (WxHxD): 530 x 330 x120 mm.

Rubber side protections.

Fog machine control.

Reversed masters for preparations.

REAR PANEL

MIDI sequencer.

24 channels for DMX dimmer.

AUDIO input.

Foot switch.

DMX fog machine.

STAGE DMX CONTROLLERS

WORK

STAGE 1624 DMX

DMX console

STAGE 1624 DMX is a conventional lighting console that features 16 control channels.
It provides 8 factory preset scenes easily accessible and other 16 configurable ones. Scenes can be faded to "0", just pushing the new program.

Most interesting features of **STAGE 1624 DMX** are its fast interface and intuitive use: with only one push button, user gets access to the program he wants. Each channel has its own flash switch to start channel and for a manual control.
All the programs can be triggered with speed time defined by internal memory, speed fader, MIDI interface or even with audio synchronization system.

The LCD display gets access to real time information: it shows the current value and channel, being useful for scenes creation. Channel values can be visualized in percentage and absolute values (0-255). The console can be connected to a remote control unit to switch Off/On functions.

RACK STAGE 10
(optional)

REAR PANEL

MIDI sequencer.

24 channels for
DMX dimmer.

AUDIO input.

Foot switch.

DMX fog
machine.
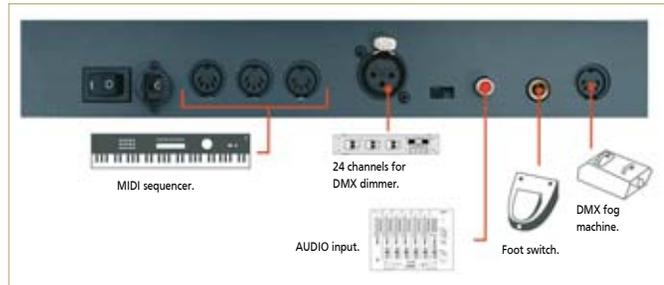
FEATURES

- 16 DMX control channels for conventional lighting.
- 24 programs (16 programmable scenes + 8 factory
  programmed scenes).
- Flash switches for all channels.
- Memory against current failures.
- Speed, audio, MIDI and Tap Sync synchronization.
- Connection for external foot switch and fog machine trigger.
- DMX polarity selector.
- Password to avoid any undesired external manipulations.
- Connection for remote control (switch Off/On).
- Main supply: DC 12-20 V, 500 mA (power supply unit included).
- Dimensions (WxHxD): 483 x 222 x 85 mm.
- Weight: 4.4 kg.

STAGE 16 DMX

DMX console

This compact conventional lighting console is ideal for small stages and mobile shows.
Its internal memory provides 30 factory preset patterns and other 30 that can be edited by users. Each channel has a flash power switch for manual mode.

STAGE 16 DMX has many modes like LOOP function for scenes selection and their continuous triggering. CROSS function plays scenes using the minimum and maximum values of Master fader. It is possible to trigger scenes using the internal speed, audio, MIDI and Tap Sync synchronization.

The console can be connected to a remote control unit to switch off or switch on functions. These functions are also available on keyboard.

FEATURES

- 16 DMX control channels for conventional lighting.
- 30 factory preset programmed patterns + 30 programmable
  patterns (99 scenes per patterns).
- Speed, audio, MIDI and Tap Sync synchronization.
- Memory against current failures.
- Flash switches for all channels.
- DMX polarity selector.
- Main supply: DC 12-20 V, 500 mA
  (power supply unit included).
- Dimensions (WxHxD): 320 x 180 x 75 mm.
- Weight: 2.3 kg.

STAGE DMX CONTROLLERS

www.work.es

PROLIGHT 400 DMX

DMX chaser

This 4 channel chaser sends both analog (0-10V) and DMX signals.

It features 42 factory programmed scenes that can be triggered using audio source (RCA input + internal microphone) or a configured speed. It loops eight times a program and then starts the following one (for audio and speed modes). The additional trigger mode allows the creation of 32 chases that will be executed in the two previous modes.

With **PROLIGHT 400 DMX**, users can program fade time between scenes as well as the addition of flash and Stand By buttons.

FEATURES

- 4 channel chaser that sends both analog (0-10V) and DMX signals.
- 42 factory programmed scenes.
- Operating modes: Auto speed, Prog speed, Hold dimmer, Hold sound, Prog sound, Auto sound, Memory.
- Flash, Full-on, Blackout, and Tap Sync functions.
- Memory function with up to 32 steps.
- Main supply: DC 15-20 V, 400 mA. (power supply unit included).
- Dimensions (WxHxD): 483 x 132 x 50.5 mm.
- Weight: 2.3 kg.

L 16 DMX

DMX console

This DMX console with 16 faders and programmable DMX start address channel is very useful for test purposes and for simple applications.

L 16 DMX has a Master fader that controls maximum values of all the channels. Its LCD display indicates current channel value on percentage or absolute values (0-255), depending on the configuration of the MODE function.

REAR PANEL

FEATURES

- 16 DMX control channels for conventional lighting.
- Programmable DMX start address channel.
- Visualization of current channel value on percentage or absolute values (0-255).
- Main supply: DC 9 V, 100 mA. (power supply unit included).
- Dimensions (WxHxD): 483 x 132 x 80 mm.
- Weight: 2.3 kg.

L 6 DMX

DMX console

This lighting console features 6 DMX channels and Master control.

Thanks to its compact design and mobility, small programs can be edited without having to use most sophisticated lighting consoles. It can also be used as a classic mixer.

L 6 DMX works with an external power supply unit or with a DC 9 V battery.

REAR PANEL

FEATURES

- 6 DMX control channels for conventional lighting.
- Main supply: DC 9 V, 100 mA. (power supply unit included) or DC 9 V battery (not included).
- Dimensions (WxHxD): 153 x 173 x 55 mm.
- Weight: 0.8 kg.

STAGE DMX CONTROLLERS

WORK

AR 32

Advanced DMX controller/recorder system

ar32

NEW VERSION

AR 32 C

AR PS1

Infrared port.

USB port.

Push buttons for chase speed adjustment.

Remote control.

This useful architectural lighting recorder is composed of two devices: **AR PS1** and **AR 32 C** (with remote control).

It records your best shows.

AR 32 system is a DMX player/recorder that stores up to 32 shows coming from an external DMX console and plays them with a unique button.

Function of **AR PS1** is to receive DMX signals from external consoles and turns it into a compatible format. Information is sent to **AR 32 C** using the RJ45 interface.

It controls flash files with LED effects.

AR 32 system is an advanced control system that controls flash files (*.swf) and trigger them as LED effects, taking advantage of this technology.

Thanks to its USB port, **AR 32 C** can be connected to a PC with control software to control show parameters. LEDs on the front panel indicate when shows are stored.

New version includes 2 push buttons for a manual control of speed and chase triggering.

Ideal for pubs or any domestic use.

Portability and easy programming of **AR 32 system** convert it into a useful device that provides the adequate atmosphere to small and medium spaces like pubs. For maximum convenience, **AR 32** includes a remote control.
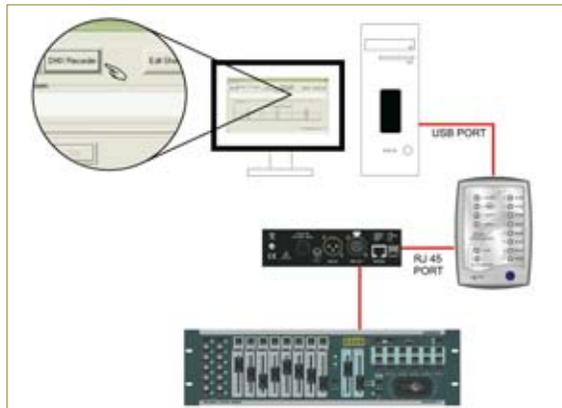

Control software.

AR 32 as a DMX recorder
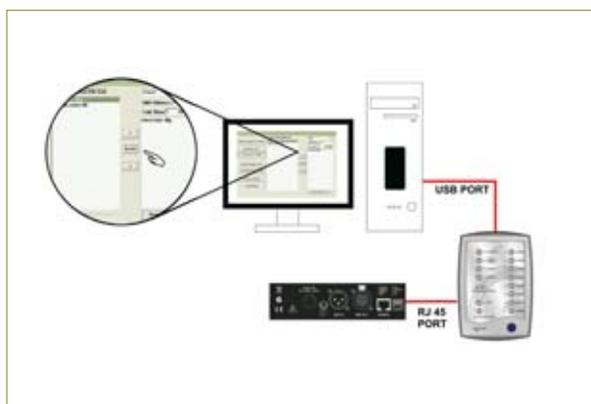
1º step
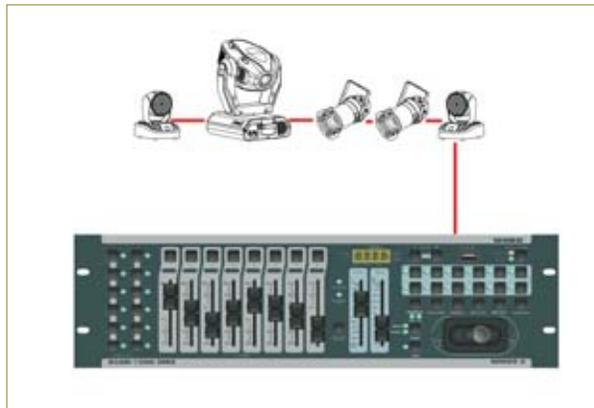
Creating shows with a DMX console.

2º step

Converting to AR 32 format.

3º step

Saving shows to keypad.

4º step

Ready to play.

TECHNICAL DATA	AR 32 C
Storage memory:	Up to 248 files / 128 MB.
Control method:	DMX, Manual and Timer (shows).
Ports:	RJ45 (main supply) infra-red (control).
Main supply:	DC 12 V.
Dimensions (WxHxD):	90 x 130 x 25 mm.

TECHNICAL DATA	AR PS1
Ports:	RJ45 (supply for AR 32 C).
Main supply:	DC 12 V.
Consumption:	500 mA.
Dimensions (WxHxD):	155 x 73 x 42 mm.

FEATURES

AR 32 C.

- Wall-mount / desktop system.
- USB port for PC communication.
- Flash (*.swf) to .SNC files converter.
- DMX to .SNC converter.
- Programmable shows and triggering time for each show.
- Up to 248 files and 128 MB storage memory to control DMX signal files.
- Up to 32 shows (8 per page) assigned to flash scenes.
- DMX control, Time trigger and Manual modes to playback shows.
- Included infra-red remote control.
- Keypad: 4 page buttons, 8 show buttons, Auto/Manual modes and OFF function.

AR PS1.

- Reads DMX signals coming from an external console.
- RJ45 interface and data exchange with AR 32 C.

ARCHITECTURAL DMX CONTROLLERS

AR RGB

DMX wall-mount controller

NEW

Remote control.

AR-RGB is a wall-mount controller that controls through DMX protocol the R,G and B information in the loaded devices. Control is very intuitive and easy, thanks to touch buttons that allow controlling each colour.
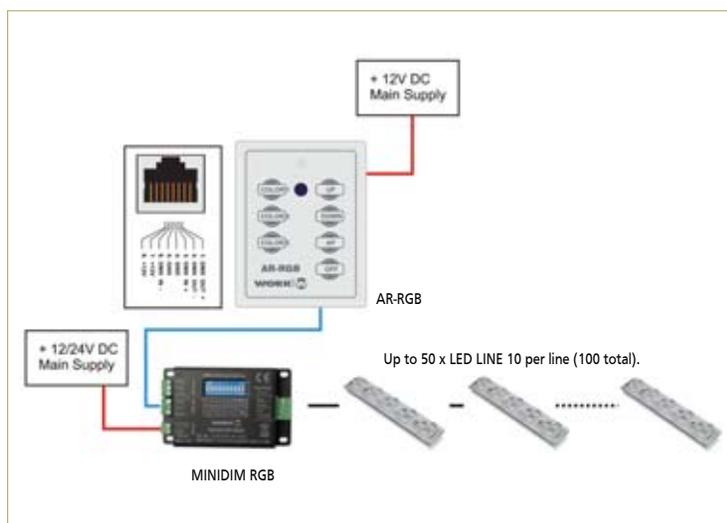
AR RGB includes 10 patterns to control fixtures, with parameters like fade time or speed that are controlled directly from the front panel. All these functions can be controlled by IR remote control.

FEATURES

AR RGB

- Wall-mount DMX controller.
- RGB control through DMX protocole.
- 10 RGB patterns.
- Built-in IR receiver and IR remote control included.

TECHNICAL DATA	AR-RGB
Main supply:	DC 12 V.
Connection:	RJ45.
Housing:	Polycarbonate.
Operating temperature:	-10° + 50°C.
Dimensions (WxHxD):	86 x 86 x 45 mm.
Weight:	200 g.

+ 12V DC Main Supply

AR-RGB

Up to 50 x LED LINE 10 per line (100 total).

+ 12/24V DC Main Supply

MINIDIM RGB

Installation with individual R,G,B control. Also AR-RGB includes 10 patterns for automatic control.

AR PS1

Optional device for the **AR series** for power and DMX supply with RJ45 cable (supply unit included).

AR-6 is a 6 channel DMX controller integrated in a ultra-small wall-mount interface, covering a lot of possibilities.
It can directly manage channels thanks to the 6 micro-faders and a master control. User can save up to 6 scenes and trigger them with the buttons placed on the right side.
In addition, it includes a IR receiver and a IR remote controller to manage all the functions remotely and trigger chases with the 6 scenes saved.

FEATURES

AR 6

- Wall-mount DMX controller.
- 6 micro faders for channels
- 1 micro fader for Master control
- 6 scenes of 6 DMX channels with Direct button access.
- IR receiver and remote control included
- Chases made by the 6 scenes can be triggered.
- Fit in a standard euro size electric box.

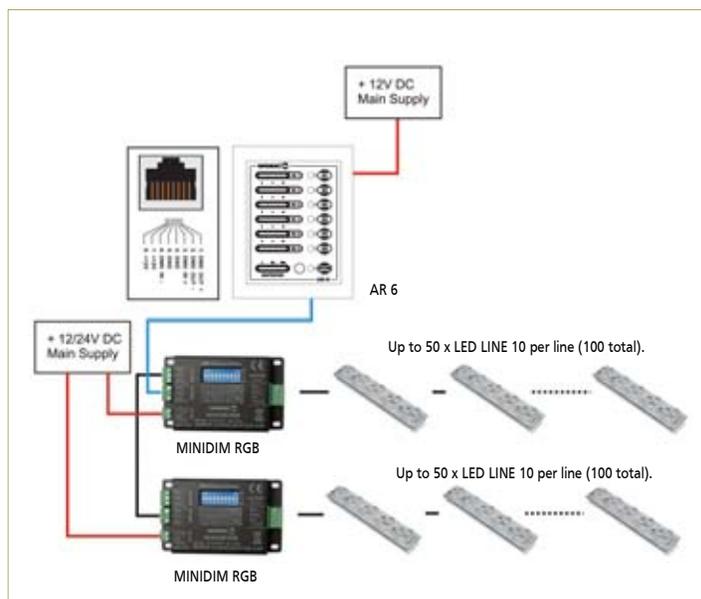| TECHNICAL DATA	AR-6
Main supply:	DC 12 V.
Connection:	RJ45.
Housing:	Polycarbonate.
Control :	6 DMX channels.
Operating temperature:	-10° + 50°C.
Dimensions (WxHxD):	86 x 86 x 45 mm.
Weight:	200 g.

AR 6

DMX wall-mount controller

NEW

Remote control.
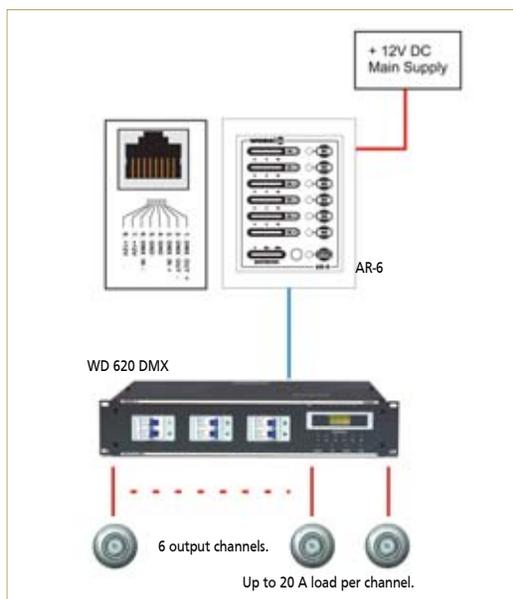
AR-6 as conventional lights controller. It allows to manage a 6 DMX channels dimmer for six different zones.

Installation with 2 zones using AR-6. Its 6 DMX channels allows to control each RGB information.

ARCHITECTURAL DMX CONTROLLERS

HOMELED
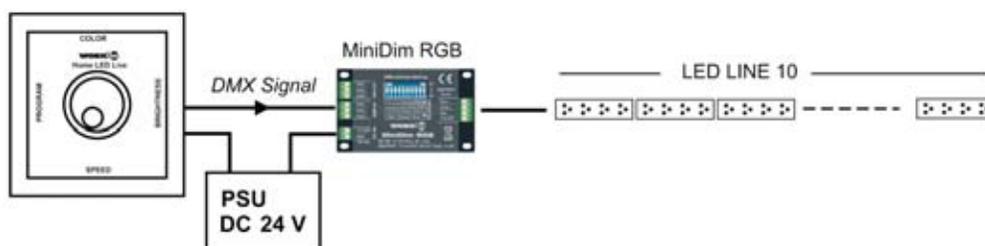DMX wall-mount controller

Home·LED

NEW

HOMELED is a 3 channel DMX controller all appropriate for RGB LED fixtures. Its wall-mount design coupled with an intuitive handling and with a visual interface whch makes very easy to use allows to install it eveywhere when RGB control its is needed. No matter how expert is the user, HomeLed can be used by everyone without any programming knowledge

It has an encoder with push button that allows navigating between the 4 functions: Colour, Program, Speed & Brightness.
By pushing the encoder, the selected function will light a diferent colour. Then, turn the wheel to get the desired effect. Pushing it again to change the function to control.

The interface has been made to be intuitive. Four LEDs at the sides of the wheel show parameters and functions (Colour, Brightness, Speed and Program). LED light intensity changes to indicate their current value.

TECHNICAL DATA	HOME LED
Main Supply:	DC 12-24V 6A max.
DMX channels:	3 channels.
Factory preset programs:	10 programs.
Operating mode:	4 Functions: Colour, Brightness, Speed and Program.
Housing:	Polycarbonate.
Dimensions (WxHxD):	86 x 86 x 45 mm.
Weight:	100 g.

Connection example, using **HomeLED** and **MiniDIM RGB** to control **LED LINE 10** strips.

Home·DIM

HomeDIM system is a great solution for architectural lighting control with mono channel fixtures. This 2.200W system is particularly useful for halls and galleries. It can be easily controlled from a unique place, whatever the size of the installation.

HomeDIM system is composed of two devices:
- **HomeDIM Power:** one channel dimmer (10A) controlled by HomeDIM Live through DMX protocol. It is configurable by DIP-Switches and features a DMX input with 2 additional pins used to supply HomeDIM Live.

- **HomeDIM Live:** wall-mount remote control that allows an intuitive control of light intensity in an installation. It works as a fader sending a DMX signal. Its beautiful design contributes to its integration in any place.

Thanks to DMX technology, **HomeDIM** can be used for many applications and in different ways. Thus, many **HomeDIM Power** can be connected to a same **HomeDIM Live**. The latter can also be used as a DMX controller for any other LED fixture. Another possibility is to integrate **HomeDIM Power** in a DMX network (without any **Home DIM Live**).

HOME DIM LIVE

HOME DIM POWER

FEATURES   HOME DIM LIVE

- Wall-mount remote control.
- Emission of pure DMX signal (0-255) sent to a DMX channel.
- Configuration of DMX channel and fade time by DIP switch.
- External supply, using HomeDIM Power.

FEATURES   HOME DIM POWER

- Mono-channel dimmer (10A).
- Power unit for HomeDIM system.
- Controlled by HomeDIM Live (or any other DMX controller).
- Configuration of DMX channel by DIP switch.
- 2 additional pins for HomeDIM Live supply.
- Easily hidden behind false ceiling.

TECHNICAL DATA	HOME DIM LIVE
Main Supply:	DC 12 V.
Connection:	Terminals.
Housing:	Polycarbonate.
Control :	1 DMX channel.
Operating temperature:	-10° + 50°C.
Dimensions (WxHxD):	86 x 86 x 45 mm.
Weight:	200 g.

TECHNICAL DATA	HOME DIM POWER
Maximum load:	10 A.
Protocol:	DMX input and output.
Start channel :	Configurable by DIP switch.
Main supply:	AC 2530 V 50 Hz.
Dimensions (WxHxD):	185 x 125 x 47.5 mm.
Weight:	1.1 kg.

ARCHITECTURAL DMX CONTROLLERS

WORK

WD 2012 DMX

12 channel modular dimmer

Easily exchangeable power module.

This 12 channel modular dimmer features a 32 bit CPU software. Its large LCD display shows graphics and options.
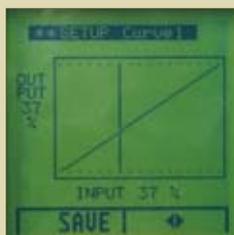
Thanks to rear panel connectors, **WD 2012 DMX** receives DMX, MIDI and Analog signals. DMX address of each channel can be controlled, as well as response curve, output limit, preheat level and load check.

Parameters like execution speed and fade in/out time allows the configuration of its 12 internal memories. Master/Slave mode configuration increases the number of units connected to the dimmer. Access to all these functions and parameters is very easy, as it features an encoder with confirmation touches.

WD 2012 DMX is a safe device that features high voltage alarm, electronic fuse, load check and overheat detection system. It can be blocked to prevent any undesired handling. Its modular structure allows a fast and convenient substitution of channel power units, independently of each other and without having to disassemble the unit.

FEATURES

- 12 output channels.
- 10 A per channel (total: 120 A mono-phase or 40 A tri-phase).
- Inputs: DMX, MIDI, Analog (0-10 V).
- Dimensions (WxHxD): 483 x 178 x 436 mm.
- Weight: 31 kg.

DIMMERS

WD 1512 DMX
12 channel modular dimmer

This 12 channel modular dimmer features a 32 bit CPU software.
Its LCD display shows various options and values for personalization.

Thanks to rear panel connectors, **WD 1512 DMX** receives DMX, MIDI and Analog signals. Its DMX fail function allows the memorization of the last DMX signal that it receives. An analog mode is also available, as well as 12 internal memories to adjust with precision parameters like execution speed.
DMX address of each channel can be controlled, as well as response curve, output limit, preheat level and load check.

Parameters like execution speed and fade in/out time allows the configuration of the 12 internal memories. Master/Slave configuration increases the number of units connected to the dimmer. Access to all these functions and parameters is very easy, as it features an encoder with confirmation touches.

WD 1512 DMX has individual 10 A circuit breakers on each channel, in addition to fan forced cooling system. Its modular structure allows a fast and convenient substitution of channel power units, independently of each other and without having to disassemble the unit.

FEATURES

- 12 output channels.
- 10 A per channel (total: 120 A mono-phase or 40 A tri-phase).
- Inputs: DMX, Analog (0-10 V).
- Dimensions (WxHxD): 483 x 178 x 436 mm.
- Weight: 31 kg.

REAR PANEL

DIMMERS

WORK

D 66 K3

12 channel modular digital dimmer

D 66 K3 is the most powerful digital dimmer from **WORK®**. It features in 3U rack units 12 channels with 25 A each. This is the perfect tool for fixed installations and touring, as it provides reliability, power and flexibility.

It features components for user security and a correct control of the dimmer. Double circuit breakers (1P+N) ensure electrical safety in case of short-circuits and electrical overload, cutting both phase and neutral conductors. Double fan forced cooling system provides uniform cooling, adequate with dimmer's power.
Dimensions of power components and inner design ensure robustness of the dimmer. Thus, internal electrical wiring has been reinforced to eliminate any drop in voltage, noise or unnecessary warming.

Thanks to its microprocessor-controlled electronic components, **D 66 K3** maintains a precise regulation, even in case of frequency variations, drop in voltage and noise in the network.

D 66 K3 is also an easy-to-use dimmer that provides a quick access to control menus, with its 16x2 character LCD display and keyboard.

FRONT PANEL INTERFACE.

The user interface features 3 main buttons for the menu that allows the configuration of the following parameters:
- Preheat level.
- Response time.
- Initial DMX channel.
- Response curve.
- Languages: Spanish, English, German and French.
- Creation and edition of 3 programs (up to 64 chases each) with time configuration between chases and pauses.
- Visualization of channel level (percentage) to check analog and DMX input.

Fixation lateral pieces and handles included.
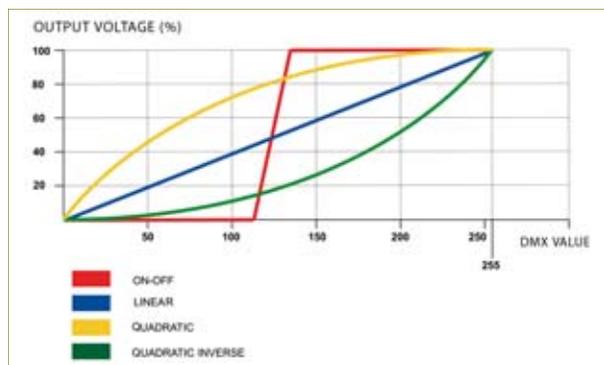
Response curves available.

TECHNICAL DATA	D 66 K3
Main supply:	Mono-phase AC 230-240 V / Tri-phase (3P/N/E) AC 380 V.
Main supply frequency:	47 – 63 Hz.
Output power:	Mono-phase 18 kW / Tri-phase 55 kW.
Output current:	25 A per channel.
Load type:	Resistive and inductive (no more than 15% of nominal load if it is inductive).
Signal connector:	DMX in: XLR3 pin and male XLR5 pin. DMX thru: XLR3 pin and female XLR5 pin. Analog in: Sub-D (15 pin).
Main supply connector::	Terminals (L+N+E).
Output channel connector:	Terminals (L+N+E) x 12.
Dimensions (WxHxD):	483 x 132 x 412 mm. (3 19" HU rack).
Weight:	25 kg.

OUTPUT VOLTAGE (%)

DMX VALUE

- ON-OFF
- LINEAR
- QUADRATIC
- QUADRATIC INVERSE

DIMMERS

FEATURES

- 12 channel digital dimmer.
- DMX 512 and analog (DC 0-10 V) signal input, possibility to operate with both signal types simultaneously.
- Load capacity: 25 A per channel. Total 18 kW (mono-phase) and 55 kW (tri-phase).
- Individual DMX address and patchable response curve for each input channel (linear, quadratic, quadratic inverse, on/off).
- Preheat level on each channel.
- DMX buffer against connections fails.

- 2 pole circuit breaker (1P+N) for each channel.
- Auto-adjustment of power frequency between 47 and 63 Hz.
- Synchronization with microprocessor to detect and filter spurious frequencies produced in the power supply.
- Slow start with 4 second starting flange, avoiding current peaks.
- Program memory: 3 programs (64 programmable chases each).
- Lateral fixation accessories and handles.
- LED indicators for output levels of each channel, DMX signal detection and error detection.

REAR PANEL

PROTECTIONS

- Double magneto-thermal circuit breaker (1P+N) ensures electrical safety in case of short-circuits and electrical overload, cutting both phase and neutral conductors.
- Double fan forced cooling system (2 fans of 120 mm. diameter): automatic operating mode that reduces temperature to the prefixed value.
- Slow start with starting flange of 4 seconds avoids current peaks.
- Power frequency auto-adjustment between 47 and 63Hz (according to power input requirements) to do not affect the response curve. Associated with the Zero Crossing Detector (ZCD), it ensures stable output levels.
- Synchronization with microprocessor marks zero crossing points, detects and filters spurious frequencies produced in the power supply.
- Programmable protection: configuration of each output with a maximum level to avoid sudden level variations that can affect load (a 95% output level is efficient and almost undetectable).
- 0-100% duty cycle: internal filter and detection circuitry eliminate parasite noise and so allow using the full cycle during zero crossing process.

Analog signal input (DC 0-10 V).

DMX in/out interface (male/female XLR3-5).

Internal electronic components and mechanism.

DIMMERS

D 40 K2

D 66 K2

D 40 K2
D 66 K2

12 channel dimmers

D 40 K2 and **D 66 K2** are two high performance dimmers of 12 channels (15 A each for **D 40 K2** and 25 A each for **D 66 K2**) that support DMX and analog signals.
Three programs are available (64 chases per program) to realize sequences and edit speed and channel intensity. Thanks to the advanced software for configuration, it is possible to patch each channel in an independent DMX address and edit parameters like pre-heat time, response curve, language, etc.
Because they support analog signal, these dimmers are compatible with controllers featuring a 0-10V output; they can even be controlled without any lighting controller, using menu and trigger buttons available on each channel.
As concerns electronic, they provide optimum results. Their power circuit has been reinforced and includes powerful TRIACS, ensuring the best performances in any situation.

REAR PANEL

D 40 K2

D 40 K2's rear panel has been designed to provide maximum versatility, featuring 12 schukos and 2 multi-connectors. It also includes connectors of 3 or 5 pins for DMX inputs and outputs, as well as a sub 15 connector for analog input.
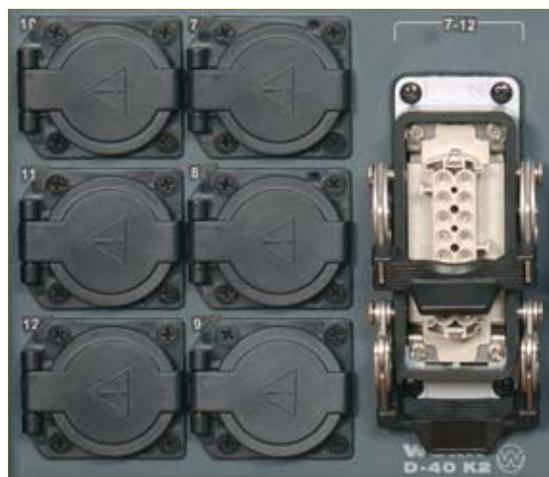

D 66 K2

In only 3U rack units, **D 66 K2** reaches 60 kW power, 5 kW per channel with very low noise levels and an excellent temperature response.

DIMMERS

Features (for both dimmers)

- 12 output channels.
- DMX 512 and analog (DC 0-10 V) signal input, possibility to operate with both signal types simultaneously.
- LED indicators for output levels of each channel.
- Temperature control by microprocessor.
- Programmable protection: configuration of each output with a maximum level to avoid sudden level variations that can affect load.
- 16x2 character LCD display.
- Supported response curves: linear, quadratic, quadratic inverse, on/off.
- Preheat level on each channel.
- Slow start of lamps (4 seconds) to switch on dimmer at full load.
- Mono-phase or Tri-phase mode (emergency operating mode in a unique phase).
- Power frequency auto-adjustment between 47 and 63 Hz.
- 0-100% duty cycle.
- 25 A TRIACs on **D 40 K2** / 41 A TRIACS on **D 66 K2**.
- Languages: Spanish, English, German and French.

Outputs divided in 2 groups of 6 channels, each one featuring 6 schukos and a 16pin multi-connector.

TECHNICAL DATA	D 40 K2	D 66 K2
Tri-phase power output:	27.5 kW.	55 kW.
Mono-phase power output:	18 kW.	18 kW.
Output channels:	12.	12.
Output current:	15 A /channel.	25 A /channel.
DMX input:	XLR3 and XLR5.	XLR3 and XLR5.
Dimensions (WxHxD):	442 x 177 x 412 mm.	442 x 132 x 412 mm.
Weight:	18 kg.	25 kg.

DMX and analog signal outputs.

Four configurable response curves are available:

1. Linear: (Blue)
2. Quadratic: (Green)
3. Quadratic Inverse: (Yellow)
4. ON/OFF: Change from on to off at 50% with a flange between 45% and 55% (Red).
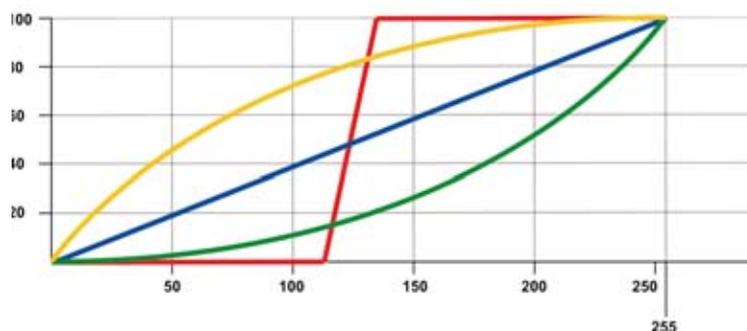
DIMMERS

WD 90K DMX

6 channel dimmer

This dimmer, electronically controlled by processor, features 6 channels of 15 A each and many configuration functions and adjustments.

DMX address of each channel can be controlled, as well as response curve (linear, switch and square), output limit, preheat level and fade time. All these parameters are visualized on the LCD display.

WD 90K DMX also features 24 programmable scenes, 10 shows (from the previous 24 scenes) and 90 factory-programmed chase programs. Scenes can be easily patched on DMX channels, selecting the assigned function, that means, with one DMX channel can trigger an scene of 6 dimmer channels. Master/Slave configuration increases the number of units connected to the dimmer.

Individual circuit breakers for each channel protect the device, as well as a security system that reduces output by 50% when temperature exceeds a certain value. A routine check verifies minimum and maximum values for each channel. Using the menu, it is possible to get access to any information regarding the unit (working hours, temperature o DMX levels). It can be blocked to prevent any undesired handling.
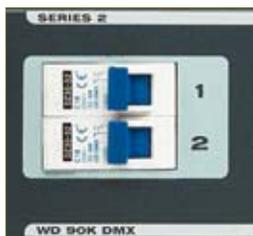
Individual circuit breakers.

LCD display for parameter visualization.

FEATURES

- 6 channel DMX dimmer.
- Load capacity: 15A per channel.
- Mono-phase or Tri-phase mode.
- 24 programmable scenes.
- 90 factory preset programs.
- Independent configuration of channel parameters.
- 10 shows.
- Patchable channels.
- Master/Slave mode.
- Memory against power supply failure.
- Dimensions (WxHxD): 483 x 88 x 390 mm.
- Weight: 9 kg.

DIMMERS

WD 620 DMX

6 channel dimmer

NEW

This dimmer, electronically controlled by processor, features 6 channels of 20 A each and many configuration functions and adjustments easily accessible thanks to its intuitive menu.

DMX address of each channel can be controlled, as well as response curve (Linear, S-curve, Square and No-Dim), output limit, preheat level and fade time. All these parameters are visualized on the LCD display. A control function is also available using external analog signal (DC 0-10 V).

12 programmable chases with adjustable speed allow the execution of programs whose channel values are directly configured on dimmer. If DMX connection fails, a routine allows using 3 other modes: Hold (using last DMX signal stored), analog or using existing chase programs.

Individual circuit breakers for each channel protect the device, as well as a security system that protects it against overheating and short circuits.

FEATURES

- 6 channel DMX dimmer.
- 20 A per channel.
- Mono-phase or Tri-phase mode.
- DC 0-10 V input for analog mode.
- Patchable DMX channel address.
- Configurable input and output limits.
- 12 programmable chases with adjustable speed.
- 3 operating modes available in case of DMX connection failure.
- Memory against power supply failure.
- 20 A magneto-thermal circuit breaker for each channel.
- Dimensions (WxHxD): 483 x 88 x 390 mm.
- Weight: 9 kg.

LCD display and key functions.

DIMMERS

WORK

WD 616 KMT

6 channel dimmer

REAR PANEL

With 6 channels of 16 A each, this versatile and functional dimmer ensures lighting intensity control and represents a great answer for most of the users. It is compatible with DMX 512 signals and has a tri-phase supply.

It has DIP switches to patch DMX start channel address. Each channel can be controlled independently from the others; LED indicates dimmer value.

FEATURES

- 6 channel DMX dimmer.
- Input signal: 512 DMX.
- Load capacity: 16A per channel. Total 22 kW (Mono-phase) or 7.4 kW (Tri-phase mode).
- DMX start channel address patchable by DIP switch.
- Individual slide dimmer control switches.
- 20A circuit breaker for each channel.
- LED indicators for each channel output level and for DMX signal presence.

TECHNICAL DATA	WD 616 KMT
Main supply:	Mono-phase AC 230/240 V. Tri-phase (3P/N/E) AC 380 V.
Output power:	Mono-phase 7.4 kW / Tri-phase 22 kW.
Output current:	16 A per channel.
Load type:	Resistive and inductive (no more than 15% of nominal load if it is inductive).
Signal connector:	DMX in: XLR3 pin and male XLR5 pin. DMX thru: XLR3 pin and female XLR5 pin.
Main supply connector:	Terminals (L+N+E).
Output channel connector:	Terminals (L+N+E) x 6.
Dimensions (WxHxD):	483 x 88 x 381 mm. (2 HU rack 19").
Weight:	8.38 kg.

DIMMERS

ARCDIM 610 DMX
6 channel dimmer

ARCDIM 610 DMX has been designed for architectural lighting and fixed installations. It features a 6 scene programmer and allows time fade control between scenes. The latter can be stored into the dimmer and monitorized thanks to LED indicator that also informs about intensity (in dimmer mode).

ARCDIM 610 DMX includes a DMX start channel address that can be configured (visualization on display).
Output current supported by each channel can reach 10 A (each one with its own circuit breaker). A fan forced cooling system protects it from overheating.

The dimmer also features a wall-mount system and provides a remote control that allows hiding the dimmer and not harming installation design.

FEATURES

- 6 channel DMX dimmer for architectural lighting and fixed installations.
- Load capacity: 10 A per channel (total 60 A).
- Individual slide dimmer control switches.
- 4 segment LCD display.
- Control and storage of scene fade time.
- Possibility to fill out/in the dimmer section unit.
- Minimum and maximum levels configurable on each output.
- DMX Input/Output connection.
- Magneto-thermal circuit breaker for each channel.
- Fan forced cooling system.
- Wall-mount system.
- Main supply: AC 230 V 50 Hz.
- Dimensions (WxHxD): 270 x 480 x 120 mm.
- Weight: 10.3 kg.

Fixation holes.

External controller (included).

Menu interface.

DIMMERS

WORK

UNIDIM 1
DUODIM

1/2 channel dimmers

UNIDIM 1

DUODIM

UNIDIM 1 and DUODIM are ultra compact DMX dimmers with one or two channels (depending on model) and a maximum load of 10 A per channel. They can be used as a chaser to remotely switch lighting effects like scanner or moving head that do not have any assigned DMX channel. Thanks to their compact size, they can be easily placed on DIN rails or trusses.

The software provides an intuitive menu for parameters edition like maximum dimmer levels or DMX address channel. User can change from dimmer operating mode to chaser one (called Switch mode). The latter allows intensity manual adjustments for each channel. For maximum convenience, all the functions are shown on the display.

These dimmers are also compatible with switch devices like foot pedals, but also with connection panels when they are used as a driver. They respectively include one and two schuko connectors with protection lid for power output.

FEATURES

- 1 channel (**UNIDIM 1**) or 2 channel (**DUODIM**) DMX dimmers/chasers.
- 10 A channel load/channel.
- Two operating modes: Dimmer or Switch.
- DMX addressing, DIM Preset and DIM Limit.
- Manual dimmer (HTP) to indicate threshold start.
- Remotely controllable (optional).
- Memory against power supply failure.
- Link connection to other units.
- Internal rail for clamp fastening.

Internal rail for clamp fastening.

Control panel.

Local DIM control (**UNIDIM**).

Local DIM control (**DUODIM**).

TECHNICAL DATA	UNIDIM 1	DUODIM
Main supply:	AC 230 V, 50 Hz.	AC 230 V, 50 Hz.
Max. total current:	10 A.	10 A. per channel.
Number of channels:	1.	2.
Output connection:	1 schuko connector with protection lid.	2 schuko connectors with protection lid.
DMX output:	XLR3 pin.	XLR3 pin.
DMX input:	XLR3 pin.	XLR3 pin.
Dimensions (WxHxD):	200 x 82 x 67 mm.	300 x 82 x 67 mm.
Weight:	1.1 kg.	2.72 kg.

DIMMERS

STAGE 12 P DMX

Controller and 12 channel DMX dimmer

This unique device combines a controller and a 12 channel DMX dimmer: it results particularly convenient for users that will take advantage of its portability, capacity to create and edit control programs and its own dimmer for direct connection to lighting systems.

Regarding lighting control, it has the same features as **STAGE 1624 DMX** (see pg.16) but with 12 channels, supplying up to 8 factory preset programs and 16 others for user configurations. Each channel has a flash button to switch it on/off and for manual mode. A keyboard and a remote control unit can also be connected to the device to realize switching functions. Programs allow speed synchronization with internal speed, Tap Sync function, audio synchronization system (thanks to the internal microphone) or even with MIDI function.

Regarding power section, 5 A output current per channel (with schuko connectors featuring protection lid and individual fuse) ensures the perfect operation of connected fixtures. A DMX output is also available for additional dimmers.

FEATURES

- 12 DMX control channels for conventional lighting.
- 24 programs: 16 (user) + 8 (preset).
- Flash button for each channel.
- Memory against power supply failure.
- Speed, audio, MIDI and Tap Sync synchronization.
- Connection for external foot switch and fog machine trigger.
- DMX polarity selector.
- Password to avoid any undesired external manipulations.
- Connection for remote control (switch Off/On).
- Output channel: 5 A.
- Main supply: 2 phases, AC 230 V 16 A /phase max.
  (Phase A: channels 1 to 6 / Phase B: channels 7 to 12).
- Dimensions (WxHxD): 483 x 266 x 182 mm.
- Weight: 8.6 kg.

REAR PANEL

12 outputs for spots (5 A each).

AUDIO input.

DMX fog machine.

Foot switch.

12 DMX channel for additional dimmer.

MIDI sequencer.

CONTROLLERS WITH DIMMER

WORK

STAGE 6P ANALOG

Controller and 6 channel DMX dimmer

REAR PANEL

This 6 channel mixer offers all the features of an analog dimmer.
Each channel supports up to 5 A load, with schuko connectors at the rear panel of the device. Individual protection fuse ensures that if one output channel fails, the others will not be affected.
Three operating modes are available: Auto-chase (adjustable speed), Audio-chase (audio synchronization) and manual dimmer.

FEATURES

- 6 channel mixer with built-in dimmer.
- Output channels: 5A max. per channel.
- Chaser by audio or internal speed synchronization.
- Flash and Blackout functions.
- Main supply: AC 220-240 V 50 Hz.
- Dimensions (WxHxD): 350 x 110 x 175 mm.
- Weight: 3.3 kg.

STAGE 4 P ANALOG

Controller and 4 channel DMX dimmer

REAR PANEL

STAGE 4P ANALOG is a 4 channel mixer with built-in dimmer, designed in a 19" rack format, with an easy access to connectors. Each channel supports up to 5 A load, with schuko connectors at the rear panel of the device. Individual channel levels and Master level can be adjusted, and LED indicators show the active state of each channel.

The unit provides a switch for chaser's operating mode selection, so user can choose between internal speed and audio signal synchronization. Both modes feature speed and level controls.

Whereas Flash function allows the individual switching on/off of channels, general and blackout functions are useful to switch all channels on/off at the same time.

FEATURES

- 4 channel mixer with built-in dimmer.
- Output channels: 5 A max. per channel.
- Chaser by audio or internal speed synchronization.
- Flash and Blackout functions.
- Main supply: AC 220-240 V 50 Hz.
- Dimensions (WxHxD): 483 x 88 x 234 mm.
- Weight: 4.5 kg.

CONTROLLERS WITH DIMMER

PROLIGHT 6 ANALOG

Controller and 6 channel DMX dimmer

REAR PANEL

PROLIGHT 6 ANALOG is a 6 channel mixer with built-in dimmer, designed in a 19" rack format, with an easy access to connectors. Each channel supports up to 5 A load, with schuko connectors at the rear panel of the device. Individual channel levels and Master level can be adjusted. 10 preset programs are available and they can be visualized in the display.

Regarding chaser operating modes, user can choose between internal speed and audio signal synchronization. Both modes feature speed and level controls.

FEATURES

- 6 channel mixer with built-in dimmer.
- Output channels: 5 A max. per channel.
- Chaser by audio or internal speed synchronization.
- Flash and Blackout functions.
- Main supply: AC 220-240 V 50 Hz.
- Dimensions (WxHxD): 483 x 88 x 234 mm.
- Weight : 5 kg.

LPX 12 DMX

12 DMX/Analog channel chaser

REAR PANEL

This is a 12 DMX/Analog channel driver and chaser, particularly useful to activate spots, switch on and switch off lighting effects.
Start channel address can be configured by user, and analog signals have priority on DMX ones.

FEATURES

- 12 DMX/analog channel driver and chaser.
- Analog signals have priority on DMX ones.
- Channel autocheck function
- Output channels: 5A per channel.
- Memory against power supply failure.
- Main supply: AC 220-240 V 50 Hz.
- Dimensions (WxHxD): 483 x 90 x 240 mm.
- Weight: 4.92 kg.

CONTROLLERS WITH DIMMER

WORK

WDP 4 DMX

4 channel DMX chaser and dimmer

WDP series are chasers and dimmers that provide an efficient solution for mobile installations.
This series is composed of 3 models with 5 A per channel (4 output channels via IEC for **WDP 8 DMX**, schukos for the other models). **WDP 4 DMX ANALOG** is a simple chaser, whereas **WDP 4 DMX** and **WDP 8 DMX** also provide DMX digital control and dimmer.

The three devices have factory preset memory chases with adjustable speed and audio synchronization. To control DMX addressing and output level, **WDP 4 DMX** and **WDP 8 DMX** include a menu accessible using display and four touch buttons.

Key touches for Mode and Menu selection. LCD display for visualization.

MODE	MENU	DISPLAY	
RECEIVE	DMX CHANNEL	A.001 — A.512	▲
	TOTAL DMX CHANNEL	CH.01 / CH.02 / CH.04	
	DIMMER / SWITCH	C1 — C4 / d - S	
CHASE	CHASE PROGRAM	P.01 — P. 16	/
	CHASE SPEED	SP.01 — SP.99	▼
	CHASE DIMMER	d.000 — d.100	
	DIMMER / SWITCH	C1 — C4 / d - S	

Operating modes (chases, DMX values, dimmer) shown on display.

DMX input and output interface.

FEATURES

- 4 channel DMX chaser and dimmer with up to 5 A per channel (max.16 A load)
- Compact size for easy transport.
- Operating modes: Adjustable speed chaser and DMX dimmer.
- Memory against power supply failure.
- Main supply: AC 230 V 50 Hz.
- Dimensions (WxHxD): 188 x 212 x 75 mm.
- Weight: 2.4 kg.

CONTROLLERS WITH DIMMER

www.work.es

WDP 8 DMX

4 channel DMX chaser and dimmer

FEATURES

- 4 channel DMX chaser and dimmer with up to 5 A
  per channel (max.16 A load).
- Compact size for easy transport.
- Operating modes: Adjustable speed chaser
  (16 programs) and DMX dimmer.
- Double output per channel with IEC connectors.
- Memory against power supply failure.
- Main supply: AC 230 V 50 Hz.
- Dimensions (WxHxD): 190 x 255 x 75 mm.
- Weight: 2.4 kg.

WDP 4 ANALOG

4 channel chaser

FEATURES

- 4 channel chaser with up to 5 A per channel (max.16 A load).
- Compact size for easy transport.
- Operating modes: Adjustable speed chaser and audio
  synchronization.
- Internal microphone.
- Stand By and Full on functions.
- Remote control for all functions.
- Possibility to connect other units.
- Memory against power supply failure.
- Main supply: AC 230 V 50 Hz.
- Dimensions (WxHxD): 210 x 260 x 75 mm.
- Weight: 2.2 kg.

Remote control (included).

CONTROLLERS WITH DIMMER

WORK

DMX PLAYER 5

DMX PLAYER/RECORDER

DMX PLAYER 5 is an advanced DMX player/recorder featuring 256 channels. Its control panel has direct access on internal memory to find and trigger chases, scenes or shows.

With its internal memory (24 banks of 40 scenes /total 960), 40 chases with up to 99 steps each and 8 shows with up to 99 scenes, it is very convenient when users only have to trigger shows or/and when they do not have any knowledge regarding programming. Thus, a lighting programmer can prepare a large number of scenes and final user will just have to click to trigger them.

RACK SCAN
(optional)

FEATURES

- 256 DMX channels + 40 additional switch channels (On/Off).
- 24 banks of 40 programmable scenes (total 960 scenes).
- Each scene consists in 256 DMX channels with activated fade time.
- 40 chases, each one with 99 steps.
- 8 shows, each one with 99 scenes (speed and fade time for independent scene).
- Data exchange capacity between two units.
- Master blackout function.
- Internal microphone for audio synchronization.
- Units can be linked in Mater/slave mode.
- DMX polarity selector.
- Memory against power supply failure.
- Main supply: DC 9 V, 500 mA min (included power supply unit)
- Dimensions (WxHxD): 483 x 132 x 73 mm.
- Weight : 2.2 kg.

DMX RECORDERS

REAR PANEL

This real time DMX recorder has been designed for lighting professionals, as it allows recording any triggered scenes (for both signal levels and chases between scenes) from consoles connected to it. The 19" rack format version is appropriate for fixed installations, as it can be integrated with other control elements.

Internal memory provides 6 shows (4 + Start program + End program) and other 33 using the 32MB compact flash card (special slot for CF cards).
Six operating modes are available: Manual, Autostart, DMX Mon, DMX Trigger, Program and Set up. Another function (SMPTE trigger) allows speed synchronization with 24/25/30 frames.

Terminal block gets access to Play/Stop/Pause functions as well as 4 of the scenes. All the information is visualized on LCD display.

FEATURES

- Real time DMX recorder (512 channels).
- 4 internal scenes.
- 33 additional scenes using CF cards.
- Slot for 32MB CF cards.
- External control of Play/Stop/Pause functions. SMPTE trigger control of 24/25/30 frames.
- Main supply: DC 9 V, 500 mA min (included power supply unit).
- Dimensions (WxHxD): 483 x 44 x 80 mm.
- Weight: 1.5 kg.

DMX interface and SMTE triggering.
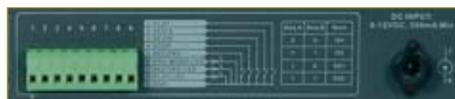
Terminal block for the external control of 4 internal scenes.

Slot for 32MB CF card.

Available connections for both models.

DMX interface and SMTE triggering.

Terminal block for the external control of 4 internal scenes.

Slot for 32MB CF card.

This real time DMX recorder has been designed for lighting professionals, as it allows recording any triggered scenes (for both signal levels and chases between scenes) from consoles connected to it. This portable version is more appropriate for mobile and touring applications.

Internal memory provides 6 scenes (4 + Start program + End program) and other 33 using the 32MB compact flash card (special slot for CF cards).
Six operating modes are available: Manual, Autostart, DMX Mon, DMX Trigger, Program and Set up. Another function (SMPTE trigger) allows speed synchronization with 24/25/30 frames.

Terminal block gets access to Play/Stop/Pause functions as well as 4 of the scenes. All the information is visualized on LCD display.

FEATURES

- Real time DMX recorder.
- 4 internal scenes.
- 33 additional scenes using CF cards.
- Slot for 32MB CF cards.
- External control of Play/Stop/Pause functions.
- SMPTE trigger control of 24/25/30 frames.
- Main supply: DC 9 V, 500 mA min (included power supply unit).
- Dimensions (WxHxD): 220 x 130 x 55 mm.
- Weight: 1.2 kg.

DMX RECORDERS

WORK

LM-3 series

Lightmouse series

NEW

LM-3E

LM-3R

LM-3 series is probably the easiest way to transport DMX through an Ethernet network, as it directly integrates itself in an existing network. This is particularly useful for older installations that cannot be physically modified: **LM-3 series** provides DMX signal anywhere in the building.

In order to get it, the system is composed of emitters (**LM-3E**) that put DMX frames in the Ethernet network, and receivers (**LM-3R**) that extract DMX signals from the Ethernet network. To send and receive DMX, both **LM-3E** and **LM-3R** use the same protocols: WorkNet Control (proprietary protocol) and ArtNet.

Plug-and-play: Installation is easier than ever!
On of the main advantage of this system is that it is very easy to install. User does not have to configure network, but only to connect to network one **LM-3E** and one or many **LM-3R**. They detect each other in the Ethernet network and start to emit/receive DMX signals: you don't need any network knowledge to start using it.

Integrated WEB SERVER for **LM-3E** and **LM-3R** configuration. It is possible to edit IP address and unit description.

GROUP 2   GROUP 2

DMX

LAN
ETHERNET

LM-3E   LM-3R

SIDIUS 1200
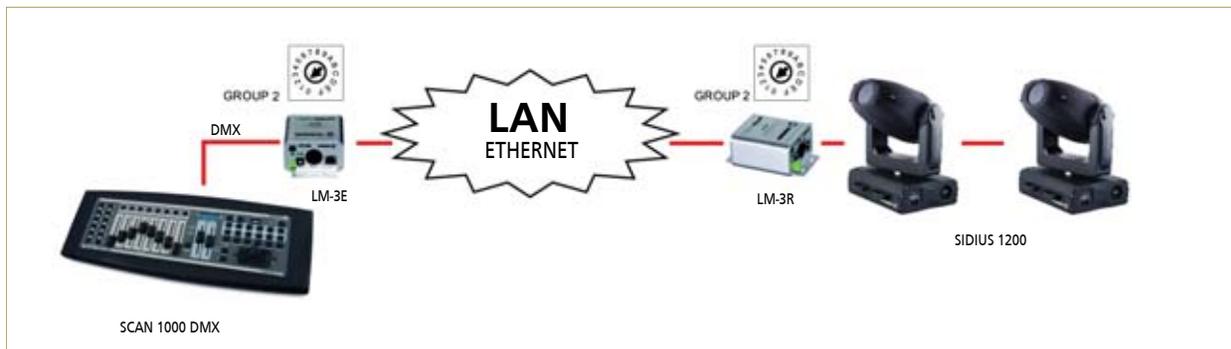
SCAN 1000 DMX

Control of DMX fixtures (**SIDIUS 1200**) from a DMX console (**SCAN 1000 DMX**) through an Ethernet network. **LM-3E** and **LM-3R** allow sending DMX information through an existing network. Both units use **WorkNet** proprietary protocol.

LM-3E and **LM-3R** front panels with LAN connection, group selector and LED for DMX and Ethernet signal.

LM-3R rear panel with DIP switch block for protocol selection (**WorkNet** or standard ArtNet and Subnet mask).

Multi-universe and multi-system.
If **LM-3E** (emitter) has been designed to send one DMX universe (512 channels), additional universes can be sent together: a group selector puts many units together, each one supporting a DMX universe. In the same manner, each **LM-3R** will be suitable for one DMX universe.
It is also possible to use many **LM-3E** to send DMX signals coming from different DMX controllers: in other words, many DMX networks can be dumped in a same Ethernet network.

Total network integration.
WorkNet Control protocol provides a total compatibility with any networks used by today's computers. This is particularly interesting for **LM-3** users because they can integrate fixtures in networks that already have computers. In addition, this is a Unicast protocol: it ensures that **LM-3 series** uses minimum bandwidth.

DMX TOOLS

Lightmouse series

LM-3E
DMX to Ethernet interface

LM-3E is a DMX to Ethernet converter that sends DMX signals in an existing Ethernet network.
It has been preset to be automatically integrated in Ethernet networks, so no configuration is required. Nevertheless, it is fully configurable and user can, if he wants to, change the system IP address.

Thanks to its group selector, many **LM-3E** units can be sent in a same network, transporting thus various DMX universes together. This is a great solution for consoles that use more than one DMX universe or for many independent DMX controllers.
Dimensions (WxHxD): 80 x 45 x 80 mm.

LM-3R
Ethernet to DMX interface / ArtNet node

ArtNet COMPATIBLE

LM-3R for its own is an Ethernet to DMX converter. There are two ways to use it.

Plug-and-play Ethernet to DMX converter.
Its main function is to receive frames sent by **LM-3E**, avoiding any DMX configurations: it comes ready to use.
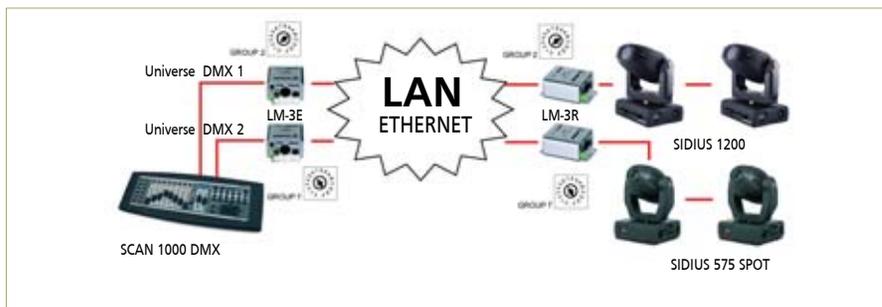
ArtNet node.
Using the DIP switch, user can change the value of **LM-3R** and turns it into an ArtNet node of one DMX universe. Thus, **LM-3R** becomes compatible with any standard ArtNet system, receiving DMX frames from lighting consoles using this standard protocol.

Total network integration using ArtNet2 protocol.
ArtNet2 is a Unicast protocol so it makes integration in Ethernet networks easier, using minimum bandwidth.
Dimensions (WxHxD): 80 x 45 x 80 mm.

Universe DMX 1 — LM-3E
Universe DMX 2
LAN ETHERNET
GROUP 2 — LM-3R
SIDIUS 1200
SCAN 1000 DMX
GROUP 1
SIDIUS 575 SPOT

LM-3 series using a DMX multi-universe controller.
System control for 2 groups of different DMX fixtures (**SIDIUS 1200** and **SIDIUS 575 SPOT**) from a DMX console through Ethernet network. **LM-3E** and **LM-3R** allow sending DMX information (each universe is separatedfrom the other) after emission/reception group configuration. Both units use **WorkNet** protocol.

ArtNet network
LAN ETHERNET
LM-3E
LM-3R
SIDIUS 1200
SIDIUS 575 SPOT
LightON 3 ArtNet console
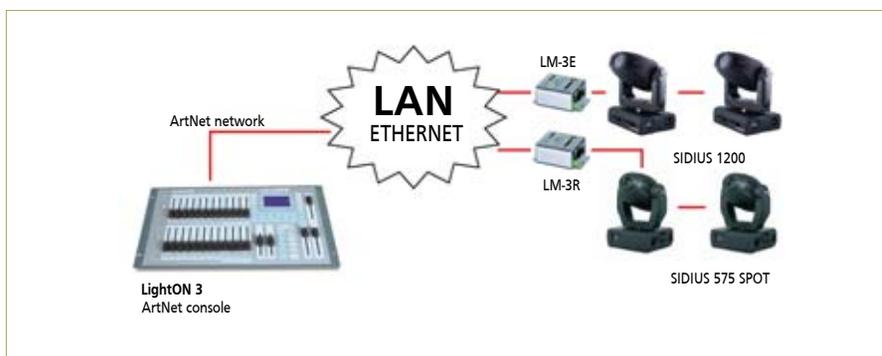
LM-3 series using a DMX controller with ArtNet protocol.
System control for 2 groups of different DMX fixtures (**SIDIUS 1200** and **SIDIUS 575 SPOT**) from a DMX console (**LightON 3**) through Ethernet network. The console allows a direct ArtNet connection. **LM-3R** converts signal or DMX protocol to control units.

DMX TOOLS

WORK

DMX-NET series

DMX/ArtNet node with video interface

DMX-NET 8

NEW

DMX-NET 48

With the **DMX-NET series**, **WORK®** provides a unique range of "all-in-one"products for video lighting professionals.

ArtNet node.
DMX-NET works as an ArtNet node, fully configurable and featuring 8 or 48 universes (depending on the model).
Thanks to ArtNet technology, up to 255 universes can be sent through an Ethernet network, taking advantage of the fast data transfer (faster than a DMX network). This is particularly useful to control LED animation devices that require many channels, or to send DMX information of a large event through a unique Ethernet cable.

### An advanced video system for DMX LEDs.
DMX 1000 K proprietary protocol allows the edition of **DMX-NET** in an operating mode reaching up to 1 Mbit/s for each output of DMX universe. Most of our LED fixtures, like **PUZZLED**, **VIDEO TUBE**, etc. are suitable for this speed. This is very convenient for users because a DMX line can support up to 4 universes. An intuitive software (included) allows an efficient control on the overall lighting system.

Video and DMX recorder/player.
Thanks to their internal memory, **DMX-NET** devices can store important DMX frames (like the one resulting from video triggering) to be interpreted by a DMX system (LED fixtures in most cases). It converts video into DMX signal that can be directly triggered, or stored in **DMX-NET** memory. An internal clock allows programming show triggering. The latter can also be triggered using 3 DMX channels (thanks to the DMX TRIGGER function).

Integration with ArKaos.
A special license of ArKaos VJ for **DMX-NET** allows using 1 Mbit/s speed for DMX outputs, ensuring an easy control of the device.
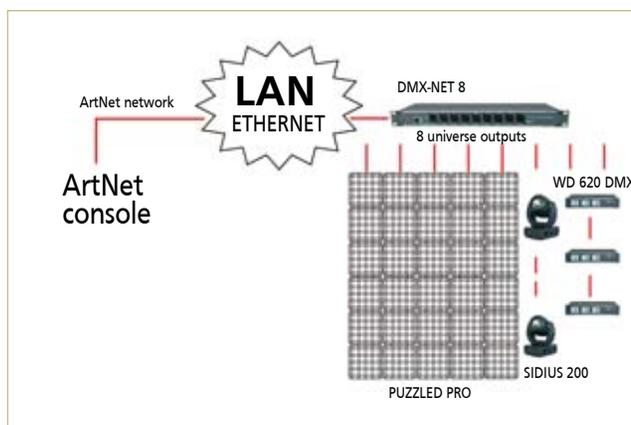
DMX-NET 8 working as an ArtNet node. LightON 3 console sends control information using ArtNet protocol and it is interpreted by DMX-NET 8 (512 channels for each universe, total 4096 channels). 5 universes for a LED screen, 1 for moving heads and 2 others for dimmer control.

Ethernet port and subnet mask assignation in ArtNet.

FEATURES

- Standard ArtNet node with 8 or 48 output DMX universes in standard DMX mode.
- Protocols: ArtNet, DMX 512 and CL 100 M proprietary protocol.
- Internal memory for 32 DMX show storage.
- Included software that converts video into DMX frames (at 1 Mbit/s).
- Suitable with ArKaos.

DMX TOOLS

Lightmouse series

LM-2
Bidirectional DMX/USB interface

NEW

A very small but powerful device for lighting control.

New **LM-2** is the evolution of first LightMouse device.
This bidirectional DMX/USB interface (input/output DMX interface) is a small and lightweight box that allows:

- **Working as a 'USB to DMX interface'** to control from a unique computer, a full 512 channel lighting system.
- **Working as a 'DMX to USB interface':** with an application like **ARKAOS VJ DMX** the DMX signal can control the computer and interact with the software.

Thanks to **LM-2**, lighting designers can take advantage of a small and strong device, being particularly appropriate for mobile uses where there is always a place for it.

A versatile device.

There are many ways to use **LM-2**, so users can realize different configurations with this unique device. The following connection schemes (below) show how **LM-2** can be used as a DMX output or a DMX input (with a Media server).
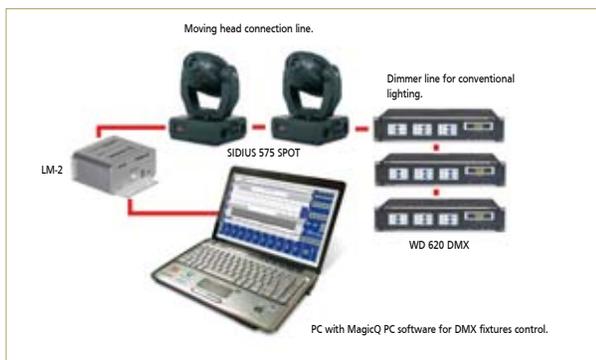
FEATURES

- Controls up to 512 channels.
- 1500 V full isolation (data & power lines to protect your computer from surges).
- USB port compatible with USB 1.1 or 2.0.
- USB cable and CD drivers for Windows, OSX and Linux.
- Compatible with most controllers and media servers of the market.
- Main supply: 300 mA. (via USB).
- Dimensions (WxHxD): 80 x 45 x 54 mm.
- Weight: 300 g.

DMX console for video control through LM-2 interface.

SCAN 1000 DMX

LM-2

PC using a software for video edition (e.g. ArKaos).

Video projector or similar device.

LM-2 used to control a Media Server.
LM-2 can be used as a USB output to connect a DMX console to a PC (running Arkaos or other video software).

Moving head connection line.

Dimmer line for conventional lighting.

LM-2

SIDIUS 575 SPOT

WD 620 DMX

PC with MagicQ PC software for DMX fixtures control.

LM-2 used as a DMX output.
Connected to a PC via USB, it is used as a DMX output for moving head and dimmer connection (controlled by software or by their own controller).

DMX TOOLS

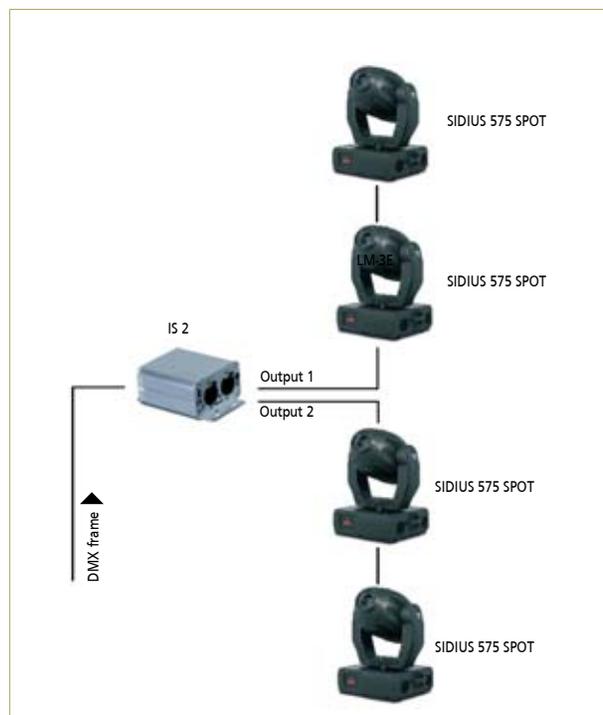**WORK**

IS 2
2 way splitter

NEW

IS 2 is a 2 way splitter with total isolation between input and output. It is useful in installations that need to double DMX signal to control two different lighting device frames.

Its small size is another advantage, because it can be supplied by both terminal blocks and external supply. It includes input and output XLR3 pin, as well as fixation points to be mounted on walls and ceilings.

Dimensions (WxHxD): 80 x 45 x 80 mm.
Weight: 380 g.

Connection example with **IS 2** splitter that receives DMX signal frame and sends it to its 2 outputs (2 lines of moving heads).

IS 6
6 way splitter

NEW

**IS 6** is a 6 way splitter with total isolation between input and output. It is very intuitive and particularly useful in installations that need to send DMX signal to different lighting device frames (moving heads, scanners, dimmers, LED fixtures, etc.). Its small size is another advantage, because it can be supplied by both terminal blocks and external supply. It includes input and output XLR3 pin, as well as fixation points to be mounted on walls and ceilings.

Dimensions (WxHxD): 80 x 45 x 113 mm.
Weight: 470 g.
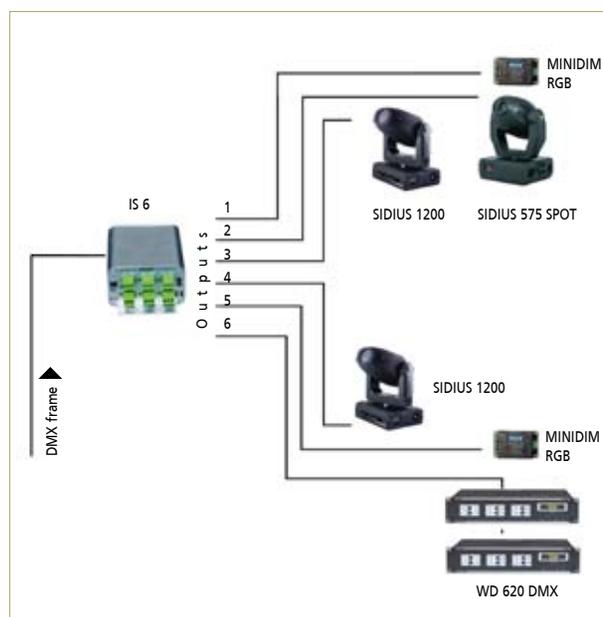
Connection example with **IS 6** splitter that receives DMX signal frame and sends it to its 6 outputs: three for moving head control, one for dimmer control, two for RGB LED fixtures control (through MINIDIM RGB driver).

DMX TOOLS

DMX PATCHER

Device for DMX addressing and signal buffer

DMX PATCHER is a device that patch the input DMX signal frame, in a starting address adecuate to an installation previously created.

This functions is very common in installations where have been added several DMX devices and it is very difficult to setup them again, so putting a **DMX PATCHER** at the beginning of the control line, it allows to assign this line to a chosen channel.

Another function of this unit is like DMX signal booster, helping to get an optimal control signal during extenses lines.
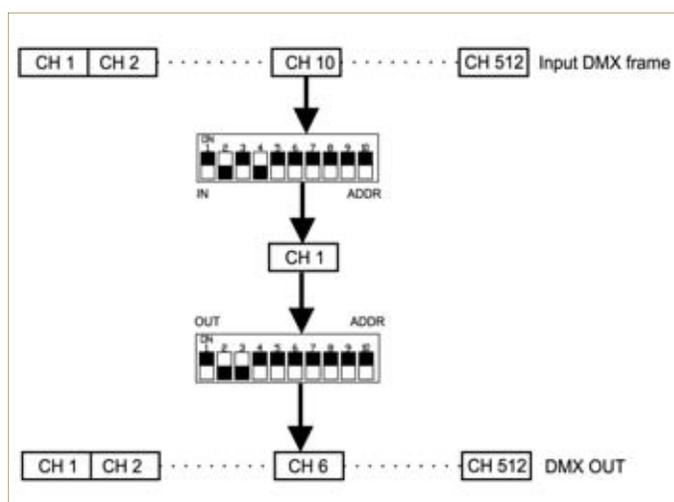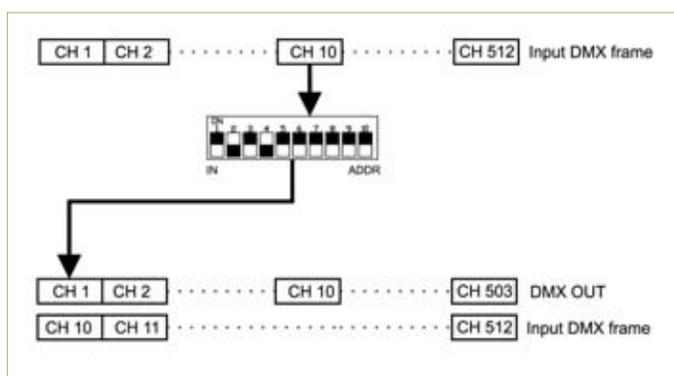
TECHNICAL DATA	DMX PATCHER
Input connection:	Terminal block (3p).
Output connection:	Terminal block (3 p).
Main supply:	DC 12/24 V, 100 mA.
Dimensions (WxHxD):	88.2 x 45.7 x 16.6 mm.
Weight:	250 g.

◄ DMX PATCHER configuration example. It is connected to a line which start address is 1 and must be assign the channel 10 of DMX frame. Marking the channel 10 in the IN ADDR dip-switch block, it will be converted internally, in the channel 1 on DMX PATCHER output.

◄ Example: One concrete channel assignation from the DMX frame to a different channel like starting address in a control line.
In this case, channel 10 in the DMX frame will control a devices line which start in address is configured in the channel 6. The DMX frame channel will marked in the IN ADDR block (10) and the channel 6 in the OUT ADDR block.

DMX TOOLS

WORK

WD 4 SPLITTER & BUFFER

4 way DMX signal splitter

LATERAL PANEL

This 4 way DMX splitter (1 input / 4 outputs) ensures total isolation between input and output (and between outputs). The latter have a double DMX connection with XLR3 and XLR5 connectors. Each output features an independent driver to extend DMX conduction and +/- DMX signal indicators.
Thanks to its Link out/Terminate selector, it is possible to connect other fixtures and indicate the end of connection chains and so prevent the DMX output from errors.

FEATURES

- 4 way signal splitter.
- Total isolation between connections.
- Double DMX connection (XLR3 – XLR5).
- Link out/Terminate selector.
- Dimensions (WxHxD): 483 x 88 x 120 mm.
- Weight: 2.3 kg.

WD 6 SPLITTER & BUFFER

6 way DMX signal splitter

REAR PANEL

WD 6 SPLITTER & BUFFER differenciates itself from previous model as it features 6 ways (1 input and 6 outputs) and sizes only 1U rack unit.

Others features are all the same: total isolation between input and output (and between outputs), double DMX connection with XLR3 and XLR5 connectors, independent driver to extend DMX conduction and +/- DMX signal indicators.

Thanks to its Link out/Terminate selector, it is possible to connect other fixtures, indicate the end of connection chains and so prevent the DMX output from errors.

FEATURES

- 6 way signal splitter.
- Total isolation between connections.
- Double DMX connection (XLR3 – XLR5).
- Link out/Terminate selector.
- Dimensions (WxHxD): 483 x 44 x 135 mm.
- Weight: 2.2 kg.

DMX TOOLS

REAR PANEL

C 72 DMX

DMX/Analog converter

CD 72 DMX is a DMX to Analog signal converter suitable for 72 analog channels.

It converts DMX and MIDI signals into analog signals. It allows using an analog dimmer with DMX consoles, setting parameters like DMX start address channel, MIDI note selection, etc.

It also works as a chaser with adjustable speed to record and program scenes from a DMX console. With its Hold function, it provides memory against current failures that maintain the last DMX configuration.

C 72 DMX sends analog signals through SUB-25 connectors. Their input voltage can be set (from DC +10V, DC +15V or DC +20V) with DIP switches. Polarity can be switched too.

FEATURES

- DMX to analog signal converter.
- Adjustable voltage level for outputs (DC 10, 15, 20 V).
- Voltage polarity selector.
- 72 channel chaser operating mode.
- Programmable DMX start address channel.
- Programmable chase speed.
- Memory against current failures.
- Main supply: 230 V AC 50 Hz.
- Dimensions (WxHxD): 483 x 44 x 120 mm.
- Weight: 2.3 kg.

FS 4 DMX

DMX flash controller

REAR PANEL

This device controls 4 DMX flashes with up to 4 channels and/or 4 analog flashes.
It features 20 programs (19+1 audio) that are controllable using one of the different operating modes: Audio, Program, Speed and Dimmer. Parameters like speed, audio intensity and dimmer level are available, in addition to a selector for trigger, Stand By and Full On functions.
Line output connection reaches up to 100 mV for audio mode, and an input polarity selector is available for DMX operating mode.

FEATURES

- DMX flash controller with up to 4 channels and/or 4 analog flashes.
- 20 chase programs.
- Audio mode for recorded scenes.
- 4 analog outputs for trigger pulses.
- Configuration of speed, audio intensity and dimmer.
- Stand By and full on functions.
- Memory against current failures.
- Main supply: DC 9 V, 500 mA (included).
- Dimensions (WxHxD): 483 x 44 x 76 mm.
- Weight: 1.2 kg.

DMX TOOLS

WORK

MERGER DMX

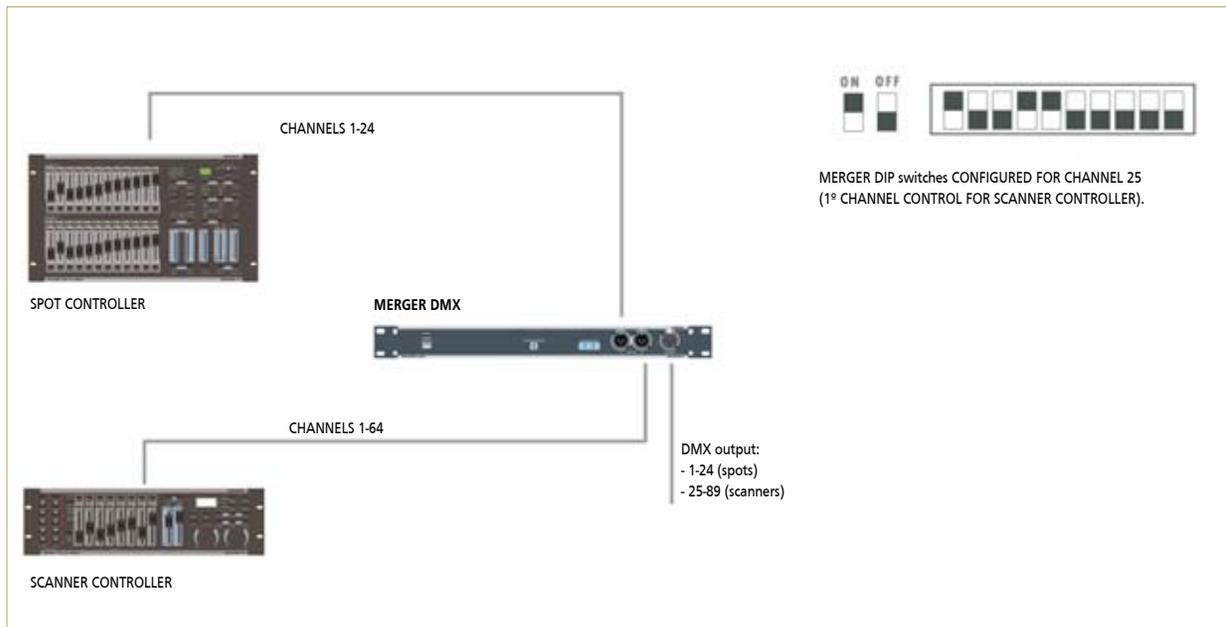DMX signal merger and backup system

REAR PANEL

MERGER DMX mixes two DMX signals coming from two different input sources (A+B) into one DMX output. DIP switches of **MERGER DMX** set up the merging mode, resulting in a unique output signal (from A+B inputs). It automatically changes DMX channel addresses to optimize available channels of the console (see scheme below). It also allows using a console as backup of another one.

The device provides three operating modes, each one with its own features:
- HTP mode: when there are two input signals, the priority goes to the highest one.
- Backup mode: Signal at A input goes to output, and if it disappears, it is substituted for B input signal.
- Merge mode: the device allows mixing the two input signals in a unique output signal (see scheme below).

FEATURES

- DMX signal merger for lighting control.
- 3 operating modes: HTP, Backup and Merge modes.
- Operating modes and start channel address seleccionable by DIP switches.
- DMX inputs and outputs: Male XLR3 (In) and Female XLR3 (Out) on front and rear panels.
- Main supply: DC 9 V, 500 mA (included).
- Dimensions (WxHxD): 483 x 44 x 73 mm.
- Weight: 1.15 kg.

CHANNELS 1-24

MERGER DIP switches CONFIGURED FOR CHANNEL 25
(1º CHANNEL CONTROL FOR SCANNER CONTROLLER).

SPOT CONTROLLER

MERGER DMX

CHANNELS 1-64

DMX output:
- 1-24 (spots)
- 25-89 (scanners)

SCANNER CONTROLLER

DMX TOOLS

DMX ANALYZER
DMX signal analyzer

This DMX signal tester is an essential tool for professionals that work with DMX fixtures. Its ergonomic design and supply through 9V battery are particularly interesting for mobile shows.

It supports DMX signals, and it is useful for lighting systems that require a pre-check for any channels and functions from a same place. Its backlight LCD display and intuitive menu provide an easy access to any functions.

DMX ANALYZER is not only a DMX signal tester but also a precise signal meter and a library recorder for scanners.

FEATURES

- DMX analyzer and tester.
- Digital and analog cable tester.
- High resistance ABS plastic case.
- Intelligent and editable fixture library (10 robots of 36 DMX channels and 29 functions for effects).
- Backlight LCD display of 4x20 characters with adjustable contrast.
- Checking of up to 10 robots with seleccionable DMX address.
- Shuttle wheel browser for menu.
- Test for data format, delay and data level.
- 512 individual channels.
- Data visualization through decimal values, percentage or diagrams.
- Received data can be stored and sent.
- TX reception code, RX visualization, DMX polarity selectable.
- Available languages: English, Spanish, French and German.
- DMX connectors: XLR3 and XLR5.
- Main supply: DC 9 V, 500 mA (included).
- DMX connectors: XLR3 and XLR5.
- Dimensions (WxHxD): 160 x 200 x 55 mm.
- Weight: 1.2 kg.

REAR PANEL

Transport case (included).

DMX TOOLS

Voltage regulators

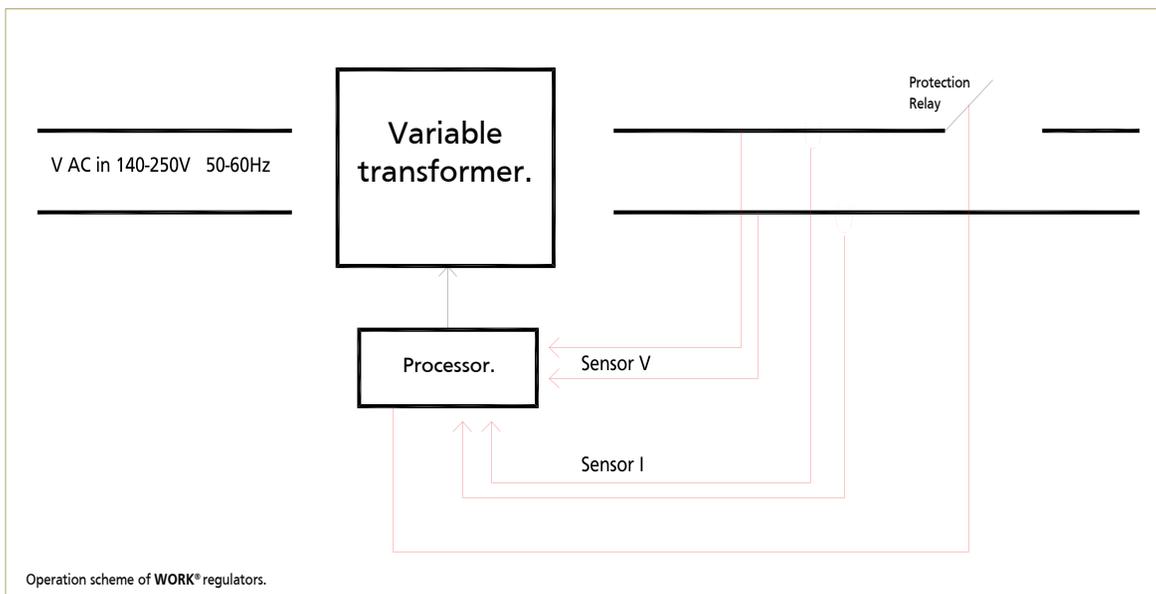EST 500 EST 1 K EST 2 K ESD 5 K/2 EST 519/2 ESD 10 K

Over the last years, voltage regulators have became one of the essential devices of touring applications.

Taking into account that almost all of the events use computers, lighting controllers, etc., voltage regulators represent the most secure device to protect material against voltage variations. This is even more important when supply comes from mobile supply units (generators) as provided current is mostly unstable.

From **EST 1 K** to the powerful **ESD 10 K**, **WORK®** presents an exhaustive series of voltage regulators as an answer to user needs for their different applications, ensuring in any case material safety.

When main power supply comes to variable transformer, control system measures output voltage and current. If it exceeds a predetermined threshold, protection relay will activate itself to keep safe electrical devices.

Thanks to voltage sample, it is possible to control voltage transformation relation, maintaining thus voltage output equal in the determined value. LCD display shows any information regarding current voltage at inputs and outputs.

VOLTAGE REGULATORS

V AC in 140-250V   50-60Hz

Variable transformer.

Protection Relay

Processor.

Sensor V

Sensor I

Operation scheme of **WORK®** regulators.

These three units maintain output supply at a predetermined value, with an input voltage that constantly oscillates between 140 and 250 V AC. This allows the connection of loads equals to 500W (**EST 500**), 1000W (**EST 1K**) or 200W (**EST 2K**).

They feature different protections to ensure output signal integrity: protections against overload, overvoltage or output short-circuit. An additional rearmable fuse is available on rear panel.

To avoid noises coming from the interrupter, these devices feature a time delay circuit (configurable between 3 and 6 sec.). After this time, normal operating mode starts automatically.

A large display shows the information regarding devices status, like input, output and current voltage.

EST 500

EST 1 K

EST 2 K

Voltage regulators

EST 500

EST 1 K

EST 2 K

TECHNICAL DATA	EST 500
Load capacity:	500 VA.
Main supply:	AC 140-250 V .
Output:	AC 220 V ±3%.
Frequency:	50 Hz / 60 Hz.
Time delay:	3 to 6 sec.
Dimensions (WxHxD):	150 x 242 x 180 mm.
Weight:	5.8 kg.

TECHNICAL DATA	EST 1 K
Load capacity:	1000 VA.
Main Supply:	AC 140-250 V.
Output:	AC 220 V ±3%.
Frequency:	50 Hz / 60 Hz.
Time delay:	3 to 6 sec.
Dimensions (WxHxD):	150 x 242 x 180 mm.
Weight:	6.6 kg.

| TECHNICAL DATA	EST 2 K
Load capacity:	2000 VA.
Main supply:	AC 140-250 V.
Output:	AC 220 V ±3%.
Frequency:	50 Hz / 60 Hz.
Time delay:	3 to 6 sec.
Dimensions (WxHxD):	150 x 242 x 180 mm.
Weight:	8.1 kg.

REAR PANEL

FEATURES

- Microprocessor (MPU) for control and regulation.
- Large LCD display for data.
- Highly precise regulation.
- Protections against overload, overvoltage or output short-circuit.
- Time delay circuit configurable between 3 and 6 sec.

VOLTAGE REGULATORS

WORK

ESD 5 K/2
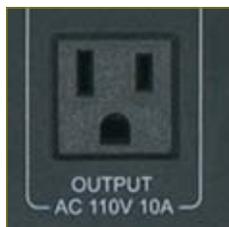## EST 519/2

Voltage regulators
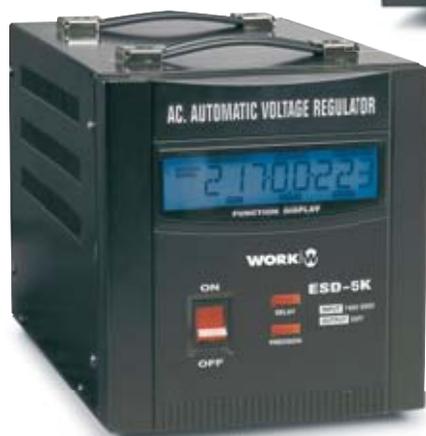
EST 519/2

ESD 5 K/2

These two voltage regulators maintain a constant output supply when voltage oscillates between 140 and 250 V. It is possible to connect a 22 A fix load. As many fixtures performance depends on voltage, it is essential to ensure the regulation and control on these values.

Features and operating modes are the same for both models but each one has its own format: ESD 5 K/2 provides handles for an easy transport whereas EST 519/2 has been designed in a 19" rack format for its integration in fixed installations. The latter also provides an input voltage selector (60V-130 V / 140V-260 V).

They feature different protections to ensure output signal integrity: protections against overvoltage (255 V), overheat (95º) or overload (23 A). If one of these values is exceed, units automatically go off and emit an acoustic signal, indicating it on the display. In addition, a switch allows the selection of output voltage (1% or 3%).
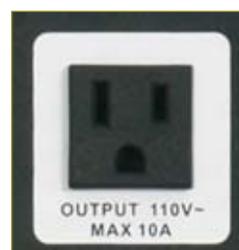
To avoid noises coming from ON/OFF switch, these devices feature a time delay circuit (3 or 6 sec.). After this time, normal operating mode starts automatically. A large display shows the information regarding devices status, like input, output and current voltage.

Additional outputs (AC 110V).
Only for **EST 519/2.**

Input voltage selector (60-130V / 140-260V).
Only for **EST 519/2.**

FEATURES

- Main supply: AC 140-250 V.
- Maximum joint load: 22 A.
- Maximum output current: 23 A.
- Time delay: 3 or 6 sec.
- Output voltage precision: 1% or 3%.

- Protections:
    - Overvoltage (255 V).
    - Overheat (95°).
    - Overload (23 A).
- Dimensions (WxHxD):
    - **ESD 5 K/2**: 230 x 220 x 370 mm.
    - **EST 519/2**: 483 x 185 x 340 mm.
- Weight:
    - **ESD 5 K/2**: 16.3 kg.
    - **EST 519/2**: 17 kg.

REAR PANEL

ESD 5K/2

EST 519/2

ESD 10 K
Voltage regulator

ESD 10 K is a voltage regulator that maintains a constant output supply when voltage oscillates between 140 and 250 V (with 220 V devices) or between 60 and 130 V (with 110V devices). It is possible to connect a 10 kVA fix load. As many fixtures performance depends on voltage, it is essential to ensure the regulation and control on these values.
Regarding inputs, it features a male CEE connector with 32 A and 3 poles, with 2 schuko connectors (one for 110V-10A and another for 230V-16 A) or terminals.

It features different protections to ensure output signal integrity: protections against overvoltage (255 V), overheat (95º) or overload. If one of these values is exceed, units automatically go off and emit an acoustic signal, indicating it on the display.
It also has double circuit breaker (63 A) on front panel and a switch for output voltage selection (1% or 3%).

To avoid noises coming from the interrupter, **ESD 10K** features a time delay circuit (3 or 6 sec.). After this time, normal operating mode starts automatically. Two large displays show the information regarding devices status, like input, output and current voltage.

REAR PANEL

In addition to 220 V outputs, it also features a110 V output.

FEATURES

- Main supply: AC 140-250 V.
- Maximum joint load: 10 KVA.
- Time delay: 3 or 6 sec.
- Output voltage precision: 1% or 3%.
- Protections:
    - Overvoltage (255 V).
    - Overheat (95°).
    - Overload.
- Dimensions (WxHxD): 305 x 260 x 460 mm.

Main supply with protection lid and output voltage selector.

VOLTAGE REGULATORS
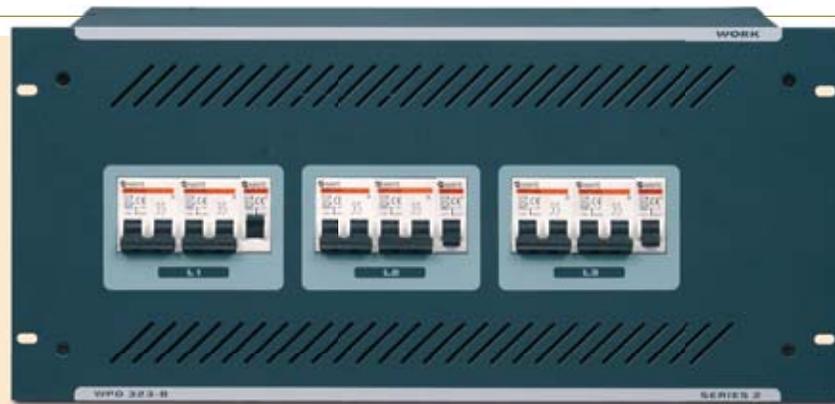
WPD 163-B

Power distributor

Rear panel of this power distributor designed in a 19" rack format features a 16 A tri-phase connector (3P+N+T) and 6 schuko connectors for output (2 per phase) with security lid. Front panel has three additional schuko connectors (1 per phase) and 16 A circuit breakers.

WPD 323-B

Power distributor

As a versatile device, **WPD 323-B** allows many connections.
It features a 32 A tri-phase input connector (3P+N+T) for three triple mono-phase outputs, each one accessible with two 16 A CEE mono-phase connectors, schuko connectors or multi-connectors (3 phases connected to 2 multi-connectors in parallel mode). Circuit breakers for all the outputs ensure maximum protection.

WPD 1253-B

Power distributor

POWER DISTRIBUTORS
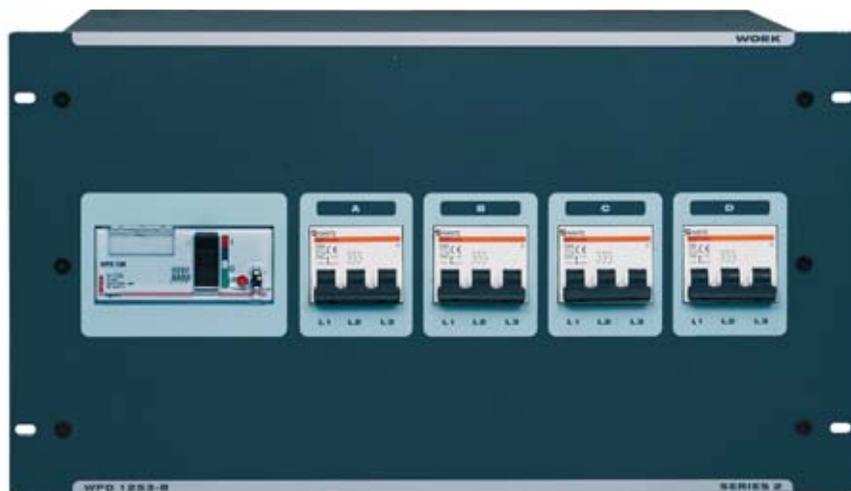
WPD 163-B

REAR PANEL

FEATURES

- Tri-phase power distributor (3x16 A input).
- 6 schuko connectors (2 per phase) with protection lid on rear panel.
- 3 additional schuko connectors on front panel (1 per phase) and 16 A circuit breakers (1 per phase).
- Dimensions: 2U rack units.

WPD 323-B

FEATURES

- Tri-phase power distributor (3x32 A input).
- Input with 32 A CEE connector (3P+N+T).
- 3 schuko connectors with protection lid (1 per phase) on rear panel.
- 2 x 16 A harting connectors (16 pins).
- 5 x 16 A circuit breakers for each phase.
- Dimensions: 5U rack units.

REAR PANEL

WPD 1253-B

WPD 1253-B is the most powerful power distributor of the WPD series.
Its tri-phase input connector (3P+N+T) allows operating on high level currents (125 A). It features 4 tri-phase outputs with up to 63 A per phase. If output total is equal to 3x125A (input), it is possible to use 2 63 A outputs (full capacity) or 4 x 32 A outputs (x3).

REAR PANEL

FEATURES

- Tri-phase power distributor (3x125 A input).
- Input with 125 A CEE connector (3P+N+T).
- 4 x 64 A CEE connector (3P+N+T) with protection lid.
- Triple circuit breakers of 63 A on each output.
- 4x32 A circuit breakers for residual current.
- Dimensions: 5U rack units.

POWER DISTRIBUTORS

WORK

WPD 163
Power distributor

This power distributor designed in a 19" rack format features a 16 A tri-phase connector (3P+N+T) and 6 schuko connectors for output (16A each). It also has a protection circuit-breaker on each phase and an additional schuko connector for auxiliary supply.
For a visualization of levels, **WPD 163** provides digital voltmeter and amp-meter for each phase.

WPD 323
Power distributor

This power distributor designed in a 19" rack format features a 32 A tri-phase connector (3P+N+T) and 6 schuko connectors for output (16 A each). It also has a protection circuit-breaker on each phase, other circuit breaker for residual currents and a 32 A CEE output connector for auxiliary supply.

For a visualization of levels, **WPD 323** provides digital voltmeter and amp-meter for each phase.

WPD 633
Power distributor

This power distributor designed in a 19" rack format features a 63 A tri-phase connector (3P+N+T) and 4 32 A CEE connectors for output (16 A each). It also has a protection circuit-breaker on each phase and other circuit breaker for residual currents.

For a visualization of levels, **WPD 323** provides digital voltmeter and amp-meter for each phase.

POWER DISTRIBUTORS

WPD 163

REAR PANEL

FEATURES

- Tri-phase power distributor (3x16 A per input).
- 6 x 16 A schuko connectors (2 per phase).
- Additional schuko connector for auxiliary supply.
- Digital voltmeter and amp-meter for each phase.
- Protection circuit-breaker on each phase.
- Dimensions (WxHxD): 483 x 88 x 210 mm.
- Weight: 3.8 kg.

WPD 323

REAR PANEL

FEATURES

- Tri-phase power distributor (3x32 A per input).
- 6 x16 A schuko connectors (2 per phase).
- 32 A CEE output connector for auxiliary supply.
- Digital voltmeter and amp-meter for each phase.
- Protection circuit-breaker on each phase.
- Additional circuit breaker for residual current Fi 32 A
  4 pole 0.03A.
- Dimensions (WxHxD): 483 x 132 x 265 mm.
- Weight: 7 kg.

WPD 633

Connector (included).

REAR PANEL

FEATURES

- Tri-phase power distributor (3x63 A per input).
- 4 x 32 A CEE output connectors (5p, 6h, 400V).
- Digital voltmeter and amp-meter for each phase.
- Protection circuit-breaker on each phase.
- Additional circuit breaker for residual current Fi 63 A
  4 pole 0.03 A.
- Dimensions (WxHxD): 483 x 132 x 267 mm.
- Weight: 9.5 kg.

POWER DISTRIBUTORS

WORK

POWER SPLITTER

Power distributor

Power splitter with phase separation.
- Power input: 380 V with CEE connector (3P+N+E).
- 6 schuko outputs with phase indicator.
- Dimensions: 220 x 150 x 102 mm.
- Weight: 1.8 kg.

PD 61 SC

Power distributor

Power splitter.
- 6 schuko outputs.
- Dimensions: 350 x 150 x 102 mm.
- Weight: 1.6 kg.

PD 81 S

Power distributor

Power splitter.
- Power splitter with 8 schuko outputs and a 16 pin multi-connector for power input.
- Dimensions (WxHxD): 345 x 150x 102 mm.
- Weight: 3.2 kg.

PD 82 S

Power distributor

Power splitter.
- Power input: multi-connector with 16 pin, for power input and link.
- 6 schuko outputs and 1 multi-connector output.
- Dimensions: 352 x 150 x 102 mm.
- Weight: 3.5 kg.

PD 81 E

Power distributor

Power splitter.
- Power input with 16 pins multi-connector.
- 8 CEE (1P+N+E) outputs.
- Dimensions: 382 x 170 x 123 mm.
- Weight: 3.2 kg.

PD 82 E

Power distributor

Power splitter.
- Power input and link with 16 pins multi-connectors.
- 8 CEE (1P+N+E) outputs.
- Dimensions: 385 x 170 x 127 mm.
- Weight: 3.6 kg.

POWER DISTRIBUTORS

POWER SPLITTER 16.

This is a 16 A tri-phase power distribution box. It features link inputs and outputs with CEE connectors (5 pins) and 5 direct outputs with schuko connectors with protection lid.
Each phase (2 schukos of 16 A) has circuit breakers that protect fixtures against any problems.
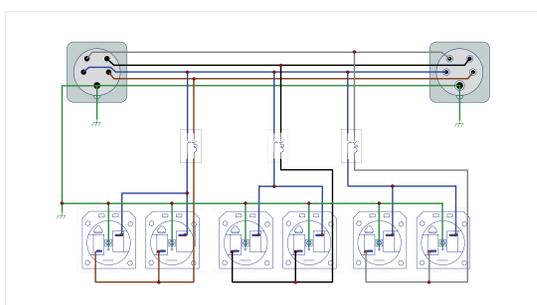
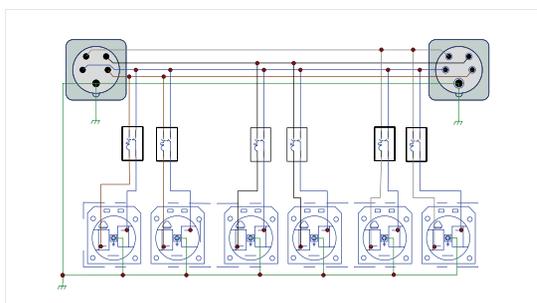Internal wiring: connection scheme.

POWER SPLITTER 16
Tri-phase power distribution box

TECHNICAL DATA	POWER SPLITTER 16
Main power:	AC 230 V, 16 A 50/60 Hz.
Input connector:	Multi-connector, Male CEE, 3x16 A.
Max. load:	16 A (max) / phase.
Output connection:	6 x schuko + 1 female CEE connector (link).
Circuit breakers:	3 x 16 A.
Dimensions (WxHxD):	367 x 150 x 107 mm.
Weight:	2 kg.

POWER SPLITTER 32
Tri-phase power distribution box

POWER SPLITTER 32.

This is a 32 A tri-phase power distribution box. It features link inputs and outputs with CEE connectors (32 A, 5 pins) and 6 direct outputs with schuko connectors with protection lid.
Each phase has 16A circuit breakers that protect fixtures against any problems.

Internal wiring: connection scheme.

TECHNICAL DATA	POWER SPLITTER 32
Main power:	AC 230 V, 32 A 50/60 Hz.
Input connector:	Multi-connector, Male CEE, 3x32 A.
Carga:	32 A (max) / phase.
Output connection:	6 x schuko + 1 female CEE connector (link)
Magnetotérmico:	6 x 16 A.
Dimensions (WxHxD):	460 x 150 x 112 mm.
Weight:	3.2 kg.

POWER DISTRIBUTORS

WORK

BPD 161 SC

Connection bar

Connection bar with 6 schuko outputs.
- Tri-phase input with CEE 3x16 A connector (3P+N+E).
- With hanging rings.
- Dimensions (WxHxD): 490 x 150 x 120 mm.
- Weight: 2 kg.

BPD 262 SC

Connection bar

Connection bar with 6 schuko outputs.
- Tri-phase input and output with CEE 3 x 16 A
  connectors (3P+N+E).
- With hanging rings.
- Dimensions (WxHxD): 570 x 150 x 120 mm.
- Weight: 2.50 kg.

BPD 161 E

Connection bar

Connection bar with 6 outputs through
16 A monophase CEE connectors.
- Tri-phase input with CEE 3x16 A connector (3P+N+E).
- With hanging rings.
- Dimensions (WxHxD): 570 x 150 x 120 mm.
- Weight: 2 kg.

BPD 262 E

Connection bar

Connection bar with 6 outputs through
16 A monophase (1P+N+E) CEE connectors.
- Tri-phase input an output with CEE 3 x 16 A
  connectors (3P+N+E).
- With hanging rings.
- Dimensions (WxHxD): 695 x 150 x 120 mm.
- Weight: 2.5 kg.

BPD 661

Connection bar

Connection bar with 6 schuko outputs.
- Input through 16 pins multi-connector.
- With hanging rings.
- Dimensions (WxHxD): 510 x 150 x 95 mm.
- Weight: 2 kg.

BPD 662

Connection bar

Connection bar with 6 schuko outputs.
- Input and output through 16 pins multi-connector.
- With hanging rings.
- Dimensions (WxHxD): 606 x 100 x 70 mm.
- Weight: 2.5 kg.

POWER DISTRIBUTORS

The page shows products PP SCK 6, PP CEE 15, BAR 6200 DMX, BAR 4150 DMX with a technical data table.
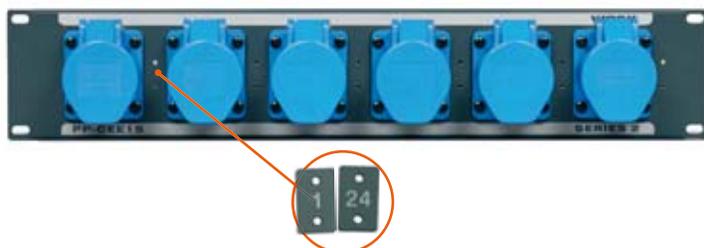
PP SCK 6
Rack-mount panel

Rack-mount panel with 6 schuko (16 A) outputs for power distribution.

It is possible to fix numbered plates between connectors for an easy identification of cables.

PP CEE 15
Rack-mount panel

Rack-mount panel with 6 CEE (1P+N+E) 16 A outputs for power distribution.

It is possible to fix numbered plates between connectors for an easy identification of cables.

BAR 6200 DMX
BAR 4150 DMX
Electrical bars

These two electrical bars have a power connection interface and another for DMX signal. Its input and link multi-connectors distribute power between the schuko connectors (4 or 6 depending on the model). Thus, using DMX input connection, it is possible to send effects on each channel (via signal). Its hanging wings allows their location on structures or ceilings.

BAR 4150 DMX

BAR 6200 DMX

TECHNICAL DATA	BAR 4150 DMX	BAR 6200 DMX
Number of channels:	4.	6.
Maximum load. per channel:	16 A.	16 A.
Multi-connector (IN/Link-OUT):	16 pin (16 A x pin).	16 pin (16 A x pin).
Dimensions (WxHxD):	1500 x 153 x 50 mm.	2000 x 153 x 50 mm.
Weight:	4.2 kg.	5.5 kg.

POWER DISTRIBUTORS

NC 100
Patch panel

Patch panel with 10 channels. Output sockets in rear panel. 5 A for each channel. 16 A total load.
Fuses on front panel.
Dimensions: 483 x 132 x 50 mm.
Weight: 1.1 kg.

NC 100 F
Patch panel

Patch panel with 10 channels. Output sockets in rear panel. 5A for each channel. 16 A total load. Fuses on front panel.
Flash button.
Dimensions: 483 x 132 x 50 mm.
Weight: 1.2 kg.

NC 600
Patch panel

Patch panel with 6 channels. Schuko outputs in rear panel. 5 A for each channel. 16 A total load. Fuses on front panel.

Dimensions: 483 x 88 x 150 mm.
Weight: 2.1 kg.

REAR PANEL

NC 800
Patch panel

Patch panel with 8 channels. Schuko outputs in rear panel. 5 A for each channel. 16 A total load. Fuses on front panel.

Dimensions: 483 x 88 x 150 mm.
Weight: 2.3 kg.

REAR PANEL

NC 1000
Patch panel

Patch panel with 10 channels. Schuko outputs in rear panel. 5 A in each channel. 16A total load. Fuses on front panel.

Dimensions: 483 x 132 x 150 mm.
Weight: 3.2 kg.

REAR PANEL

NC 1000 F
Patch panel

Patch panel with 10 channels. Schuko outputs in rear panel. 5 A for each channel. 16 A total load. Fuses on front panel.
Flash button.

Dimensions: 483 x 132 x 150 mm.
Weight: 3.5 kg.

REAR PANEL

POWER DISTRIBUTORS

REAR PANEL

VMX 4
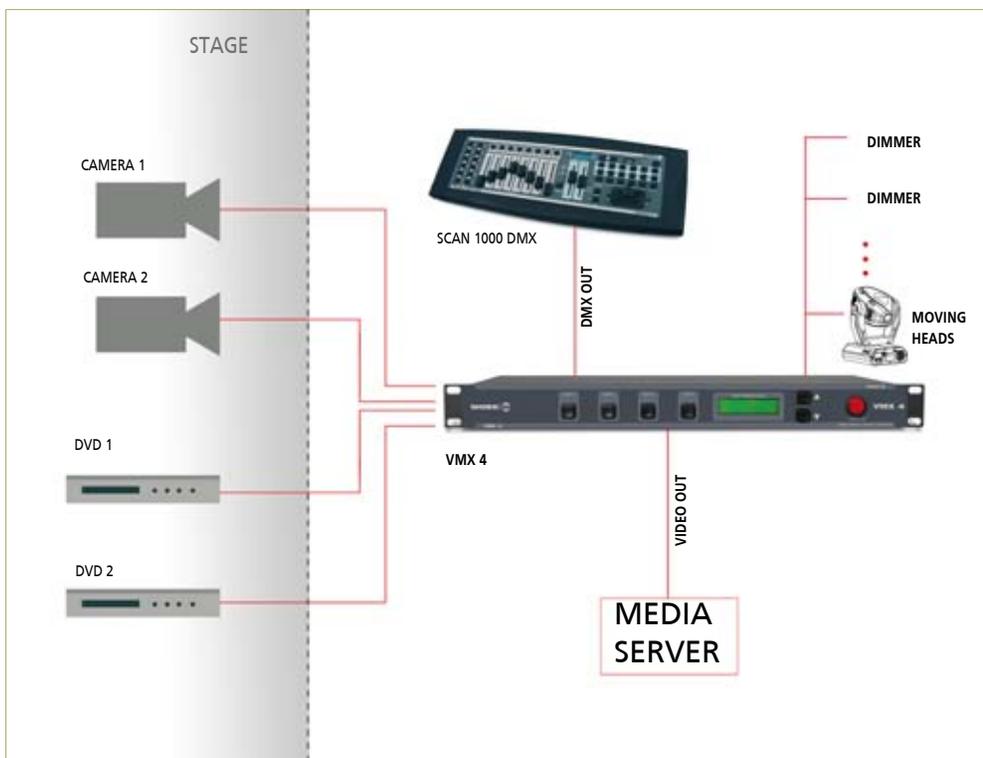
Audio/video multiplexer

NEW

Over the last years, video in performing events has become more important than ever. Now almost any small/medium event companies use video products in their shows, but media servers are cost expensive.

When users want to use a Media Server many video inputs, they need more powerful machines and more efficient graphic cards.
Some applications only need switching but only one light/video operator (e.g. discotheques or small band performances).

VMX 4 is a Video Switcher with fade and controlled by DMX. Using it with their lighting console, users can now control: lights, media servers, external video inputs to these media servers (without increasing the cost of the media server hardware).
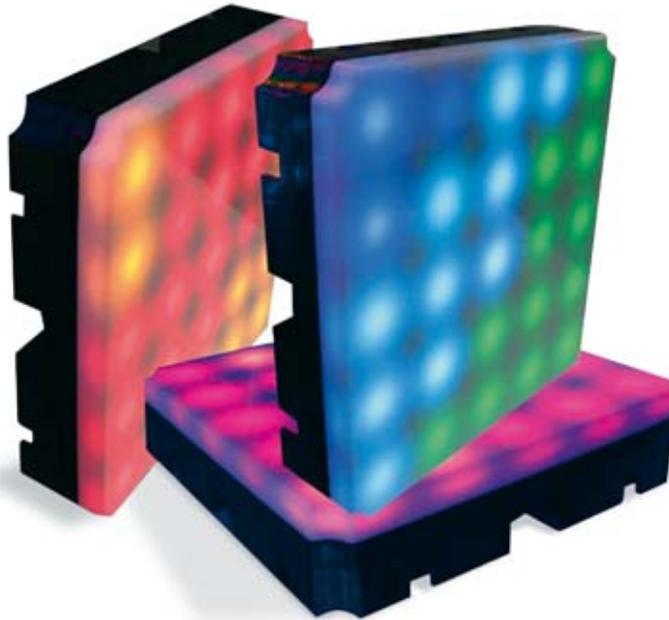
FEATURES

- 4 inputs for composite videos + stereo audio.
- DMX address selection using keyboard + LCD display.
- Video/audio input selection using DMX signal or manual mode with push buttons on front panel.
- Indicator on front panel for the selected input.
- 1U rack enclosure.
- Input switching using the first DMX channel from the selected address with the following intervals:
  - CH 1 : between 0 and 40.
  - CH 2 : between 60 and 100.8.
  - CH 3 : between 120 and 160.
- Fade time selection using the second DMX channel from the selected address.

STAGE

CAMERA 1

CAMERA 2

DVD 1

DVD 2

SCAN 1000 DMX

DMX OUT

VMX 4

VIDEO OUT

DIMMER

DIMMER

MOVING HEADS

MEDIA SERVER

AUXILIARY VIDEO DEVICES

PUZZLED PRO

Video LED panel

PUZZLED PRO has been designed to create spectacular screen effects in fixed and mobile installations. Each panel includes 25 high intensity RGB LEDs and it is controlled by software or DMX. Combination of panels allows playing pictures, videos and flash animations (.swf). All these media and can be played together to create new effects.
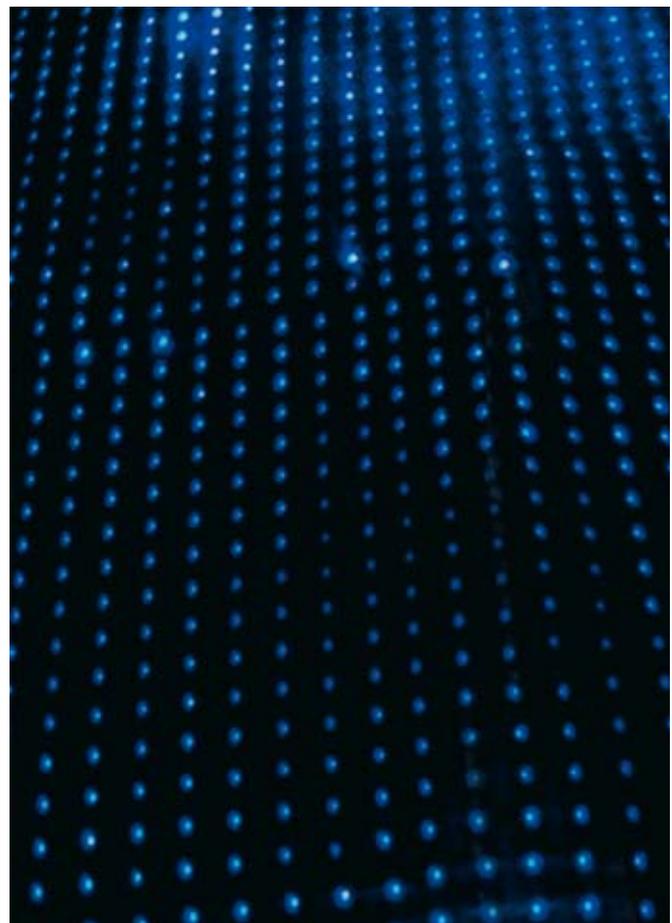
Framework of **PUZZLED PRO** is made of polycarbonate, probably the most adequate solution for this kind of fixtures.
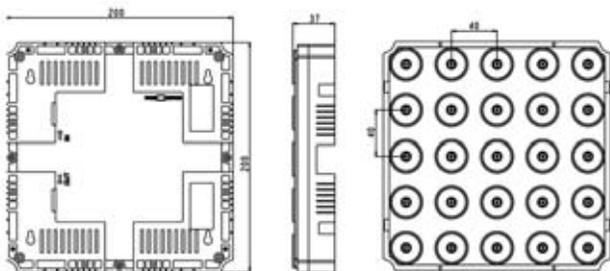
FEATURES

- Distance between pixels: 40 mm.
- Frontal FROST acrylic filter.
- Supports BMP, JPG, AVI, WMV, MPEG, MPG, MOV, MPEG2, MPA, MPE and FLASH files.
- Control by DMX or using software (75 DMX channels per panel).
- 25 pixels per panel.

TECHNICAL DATA	PUZZLED PRO
Colour range:	16.700.000 (24 bit).
Pixel density:	625 pixels/m².
Light source:	25 SMD RGB LEDs. with high intensity.
Lifetime:	50.000 hours.
Main supply:	DC 24 V.
LED type:	SMD.
Power consumption:	4W (170 mA).
Wave length:	625 (R) / 525 (G) / 465 (B) nm.
Light intensity (6.87m):	520 cd/m².
Beam angle:	120°.
Protocol:	DMX 512.
Connection:	Terminal.
Operating temperature:	-10° C ~ +50° C.
Dimensions (WxHxD):	200 x 200 x 37 mm.
Weight:	800 g.

	LUX	SIZE (mm.)	LUX	SIZE (mm.)	LUX	SIZE (mm.)	LUX	SIZE (mm.)
RED	6.2	1290	1.6	25800	0.6	3860	0.2	6450
GREEN	8.4	1280	2.2	2560	1.0	3840	0.4	6400
BLUE	3.8	1305	1.0	2605	0.4	3905	0.2	6510
WHITE	16.8	1300	4.2	2600	1.8	3900	0.6	6500

LED FIXTURES

PUZZLED PRO

SYSTEM CONFIGURATION

2025 DMX channels through 1000 K protocol (1 M).

45x15 pixel matrix per universe.

2025 DMX channels through 1000 K protocol (1 M).

45x15 pixel matrix per universe.

8 universes.

2025 DMX channels through 1000 K protocol (1 M).

45x15 pixel matrix per universe.

Max length: 100 m.

8 outputs
DMX NET 8

8 outputs
DMX NET 8

1000 k (1 M) DMX proprietary protocol.
4 universes (2048 channels per output)

1000 k (1 M) DMX proprietary protocol.
4 universes (2048 channels per output).

Cat. 5
Control Cable

Ethernet Hub

Ethernet Hub

Software

LAN Cable

216 **PUZZLED PRO** matrix configuration, using **DMX-NET 8** and 1000 K proprietary protocol (1 M). Each of the 8 output universes provides 2025 control channels (total: 16200 DMX channels).

WORK

PUZZLED PCB PRO VIDEO

PUZZLED PCB VIDEO

VIDEO WALL PCB

Video LED panels
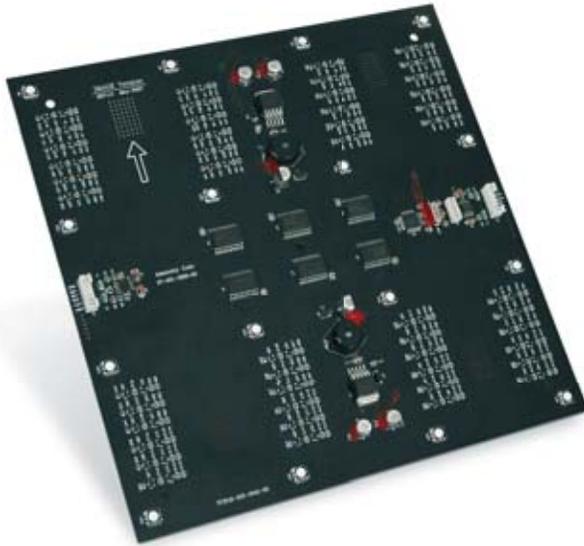
PUZZLED PCB VIDEO

PUZZLED PCB PRO VIDEO

NEW

This range of LED panels has been designed for video animation.
The three models take advantage of the SMD technology that generates colour from a unique point, creating a natural chromatic tone.

Essential fixtures for lighting designers.
These panels can be used as background and they perfectly integrate themselves in any kind of installations: theatre stages, TV studios, macro discotheques, touring, etc.

Each fixture has its own dimensions so lighting designers can design structures according to their needs. For an easy installation, a mounting accessory (made of ABS plastic) connects panels together and can be deformed to create forms like curves, squares, etc. Pixel quantity per channel and distance between them will determine definition of final image.

Total control on fixtures.
Each pixel is controlled by 3 DMX channels (one per colour). This allows using video controllers or even DMX recorders. Automatic DMX addressing is another advantage of these fixtures, as there is no waste of time for individual configuration of panels.

All these units support DMX 512 signals and DMX 1000K (proprietary high speed protocol / 1M). They perfectly work with mapper software and LED video converters (e.g. **DMX-NET 8**).

LED FIXTURES

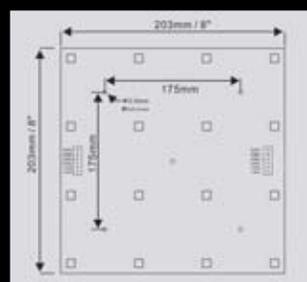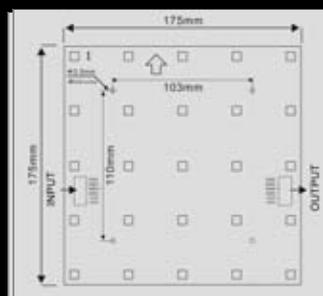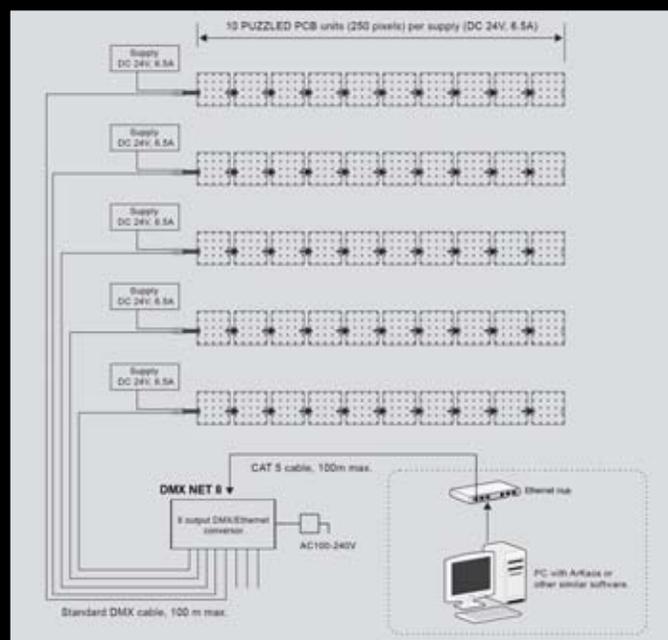| TECHNICAL DATA	PUZZLED PCB VIDEO	PUZZLED PCB PRO VIDEO	VIDEO WALL PCB
Colour range:	16.7000.000 (24bit).	16.700.000 (24 bit).	16.700.000 (24 bit).
Distance between pixels:	63.5 mm.	40 mm.	25 mm.
LED quantity:	16 RGB SMD LEDs .	25 RGB SMD LEDs	96 RGB SMD LEDs.
Lifetime:	50000 h.	50.000 h.	50.000 h.
Main supply:	DC 24V.	DC 24V.	DC 24V.
Power consumption:	6 W.	9.6 W.	25 W.
Beam angle:	120°.	120°.	120°.
Protocol:	DMX 512 / DMX 1000K (1M).	DMX 512 / DMX 1000K (1M).	DMX 512 / DMX 1000K (1M).
Control capacity:	48 DMX channels.	75 DMX channels.	288 DMX channels.
Dimensions:	203 x 203 x 15 mm.	175 x 175 x 10 mm.	391 x 133 x 7 mm.
Weight:	120 g.	120 g.	120 g.

NEW
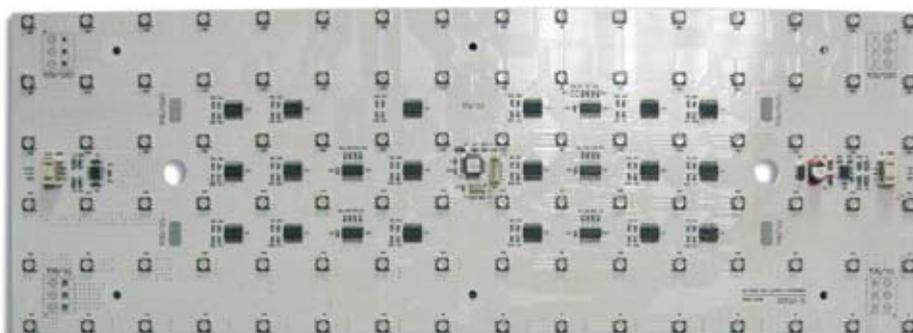
VIDEO WALL PCB
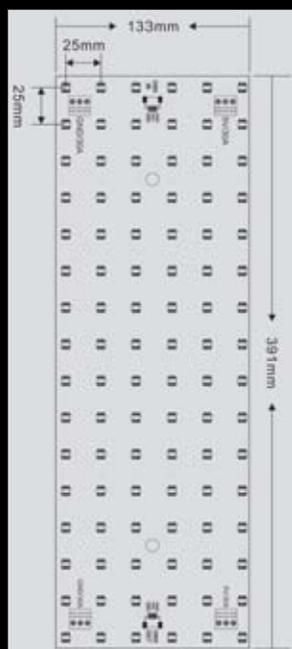
VIDEO WALL PCB

PUZZLED PCB VIDEO

PUZZLED PCB PRO VIDEO

Installation of 50x25 pixels of PUZZLED PCB PRO VIDEO using the 8 outputs of DMX NET 8 and ArKaos control software.

LED FIXTURES

LED LINE VIDEO
SMD RGB LED strip

NEW

TECHNICAL DATA	LED LINE VIDEO
Colour range:	16.700.000 (24 bit).
Number of pixels:	10 per strip.
Distance between pixels:	40 mm.
Light source:	10 RGB LEDs (SMD).
Main Supply:	DC 5 V.
Power consumption:	2.5 W.
Beam angle:	120°.
Protocol:	DMX 512.
Housing:	Polycarbonate with UV stabilizer.
Operating temperature:	- 10° + 50° C.
Dimensions (WxHxD):	400 x 13 x 7 mm.
Weight:	30 g.

With its pixels clearly defined, **LED LINE VIDEO** strips allow designing lighting screens to visualize colours, forms, images, moving text or even video animations.
It is composed of 10 SMD RGB LEDs that emit colour mixing form a unique point to get a great colour definition with low power requirements.

Design of **LED LINE VIDEO** provides maximum flexibility to create strip matrices. Thanks to their lightweight and thickness, they are easily placed on walls creating impressive backgrounds. Associated to a DMX programming, they are optimized to show all kind of video effects. They result particularly appropriate for night clubs, TV studios or even interior design.

400mm · 6.8mm · 13mm
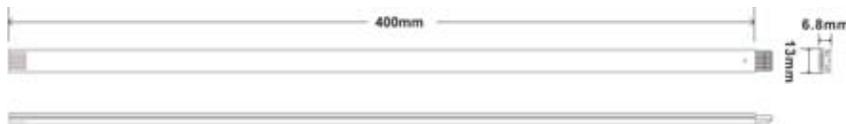
Please see pg. 86 for driver and control selection.

Luminosity

COLOUR	1m Lux	1m Dim.(mm)	2m Lux	2m Dim.(mm)	3m Lux	3m Dim.(mm)	5m Lux	5m Dim.(mm)
RED	5.6	1310	1.4	2620	0.6	3930	0.2	6550
GREEN	9	1396	2.2	2792	1.0	4188	0.4	6980
BLUE	2.6	1340	0.6	2680	0.2	4020		
WHITE	16.8	1384	4.2	2768	1.8	4152	0.6	6920

Output

COLOUR	Total (lumens)	POWER (W)	Efficiency (lmW)
RED	17.27	1.1	15.7
GREEN	30.50	1.4	21.78
BLUE	8.29	1.4	5.79
WHITE	55.02	3.4	16.18

Total intensity in white colour.

127°
1m — 16.8 Lux (Ø 1384mm)
2m — 4.2Lux (Ø 2768mm)
3m — 1.8 Lux (Ø 4152mm)
5m — 0.6Lux (Ø 6920mm)

LED FIXTURES

www.work.es

PC with ArKaos software.

CAT 5 cable.

LAN Ethernet

DMX NET 8

AC230V/1A

DMX cable, max: 100 m.

LED LINE VIDEO (60 pixels max.)

MINI VIDEO DRIVER
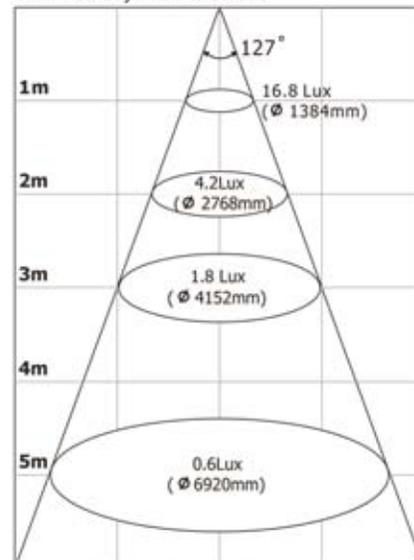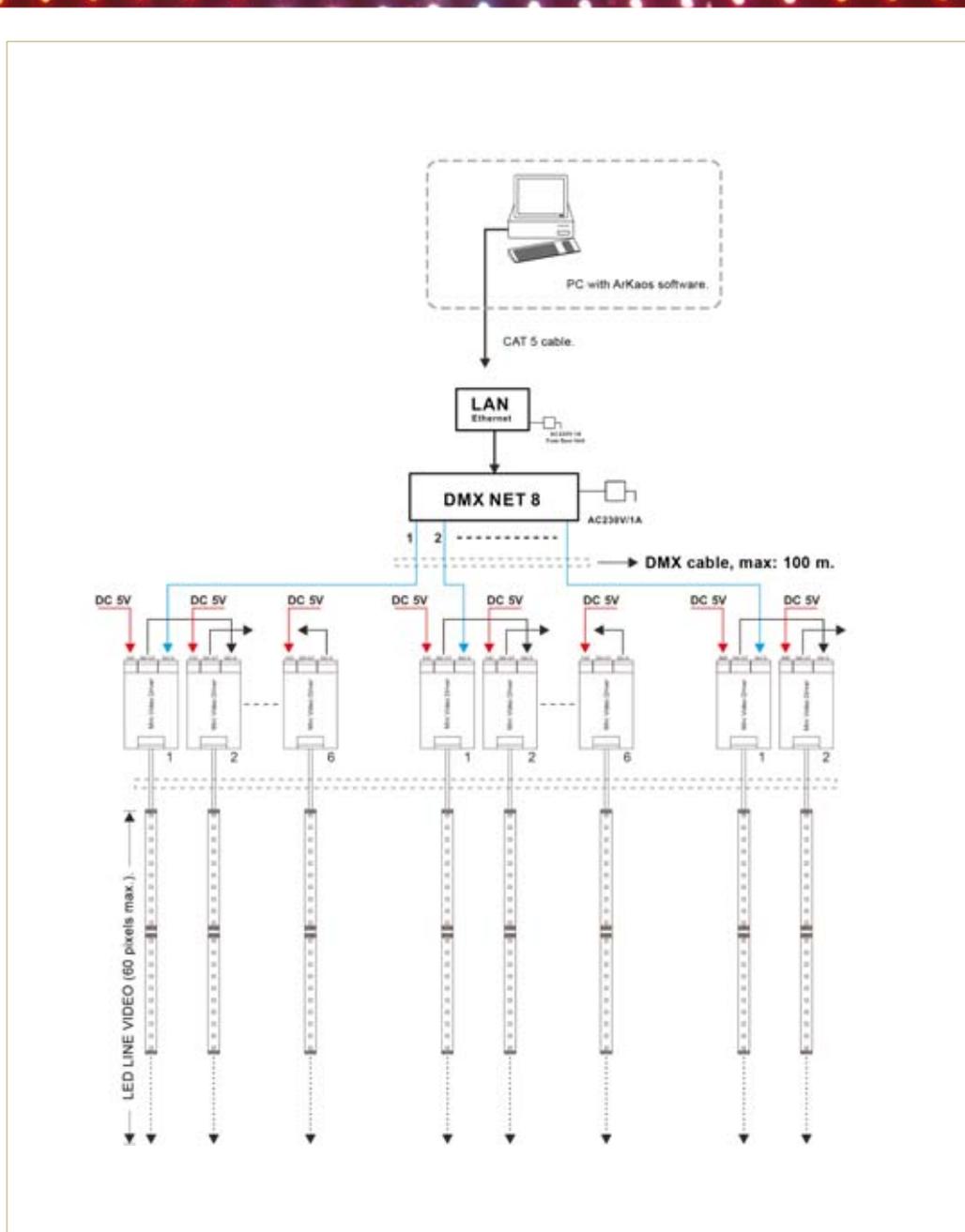
LED Driver

This is the LED driver designed for **LED LINE VIDEO**. Its main function is the automatic DMX addressing, with up to 180 channels. One **MINI VIDEO DRIVER** can control up to 60 pixels of **LED LINE VIDEO** (600 using DMX 1000K protocol).

NEW

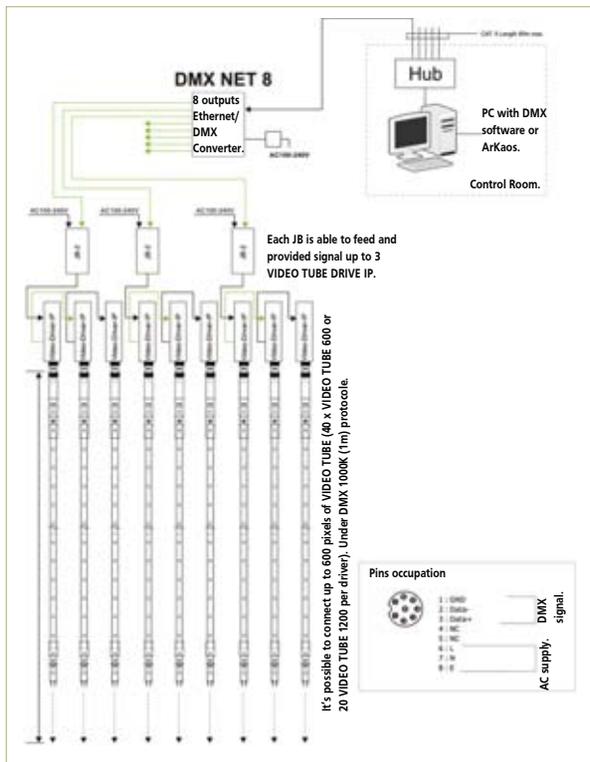| TECHNICAL DATA	MINI VIDEO DRIVER
Main Supply:	DC 5 V.
Power consumption:	3 A max.
Protocol:	DMX 512 /DMX-1000K (1M).
Dimensions (WxHxD):	79.6 x 40 x 16.8 mm.
Weight:	70 g.

LED FIXTURES

WORK

VIDEO TUBE

65 IP

SMD RGB LED tube

NEW

This tube with reduced diameter features SMD RGB LEDs. Two dimensions are available: 60 or 120 cm. **VIDEO TUBE** supports video and picture signals, creating attractive lighting matrices. Thanks to its high IP range (IP 65), these tubes can be used for outdoor installations.

Connection between **VIDEO TUBE** fixtures is really easy, as they directly connect themselves, without any cable or other accessory. Its controller, **VIDEO TUBE DRIVER**, allows the visualization of strips up to 200 pixels (between 6 or 12 units depending on model).

DMX NET 8
8 outputs Ethernet/ DMX Converter.

Hub

PC with DMX software or ArKaos.

Control Room.

Each JB is able to feed and provided signal up to 3 VIDEO TUBE DRIVE IP.

It's possible to connect up to 600 pixels of VIDEO TUBE (40 x VIDEO TUBE 600 or 20 VIDEO TUBE 1200 per driver). Under DMX 1000K (1m) protocole.

Pins occupation

DMX signal.

AC supply.

Please see pg. 86 for driver and control selection.

VT 600 (600mm)
VT 1200 (1200mm)

TECHNICAL DATA	VIDEO TUBE
Colour range:	16.700.000 (24 bit).
Distance between pixels:	40 mm.
LED quantity:	15 **(VT 600)** 30 **(VT 1200)**.
Lifetime:	50.000 h.
Main Supply:	DC 5 V.
Power consumption:	4 W **(VT 600)** 8 W **(VT 1200)**.
Brightness:	915 cd/m2.
Beam angle:	120°.
Protocol:	DMX 512 /1000 K(1M).
IP range:	IP 65.
Housing:	Polycarbonate with UV stabilizer.
Operating temperature:	0° + 50°C.
Dimensions:	600 x Ø 20 mm. **(VT 600)**. 1200 X Ø 20 mm. **(VT 1200)**.
Weight:	130 g. **(VT 600)** 210 g. **(VT 1200)**.

VIDEO TUBE DRIVER IP

65 IP

Driver for VIDEO TUBE series

NEW

VIDEO TUBE DRIVER IP is a driver designed for **VIDEO TUBE** control. It elevate IP range (IP 65) turns it into a useful device for outdoor installations.
DMX addressing and channels are automatically assigned and pixel value is perfectly controllable by user. The device is compatible with DMX 512 and DMX 1000K (proprietary protocol) protocols. A LCD display shows DMX starting value.

With **VIDEO TUBE DRIVER IP**, user can control up to 11 **VT 600** and 5 **VT 1200**, using DMX 512 protocol (up to 40 **VT 600** and 20 **VT 1200** sing the 1000K proprietary protocol).

TECHNICAL DATA	VIDEO TUBE DRIVER IP
Main Supply:	AC 100-240 V.
Power consumtion:	1.8 A max.
IP range:	IP 65.
Control protocol:	DMX 512 or DMX-1000K (proprietary protocol).
Dimensions (WxHxD):	163 x 112 x 39 mm.
Weight:	1.25 kg.

JB 2

NEW

Signal/supply adapter

JB 2 is a new device that supplies and sends DMX signal to an installation using **VIDEO TUBE**. It has separate DMX signals and POWERCON connector.

A standard 8pin output connector (with both supply and signal) allows its connection with **VIDEO TUBE DRIVER IP**. Each **JB 2** can supply up to 3 **VIDEO TUBE DRIVER IP** for an easy connection and distribution of signals and supply.

TECHNICAL DATA	JB 2
Main supply:	AC 230 V 50 Hz.
Power consumption:	10 A max.
Input:	XLR3 (DMX). POWERCON supply.
Output:	Connect 8 pin (IP 67).
Housing:	Aluminium.
IP range:	IP 20.
Operating temperature:	-10° + 50°C.
Dimensions (WxHxD):	110 x 68 X 43 mm.
Weight:	250 g.

PUZZLED PCB

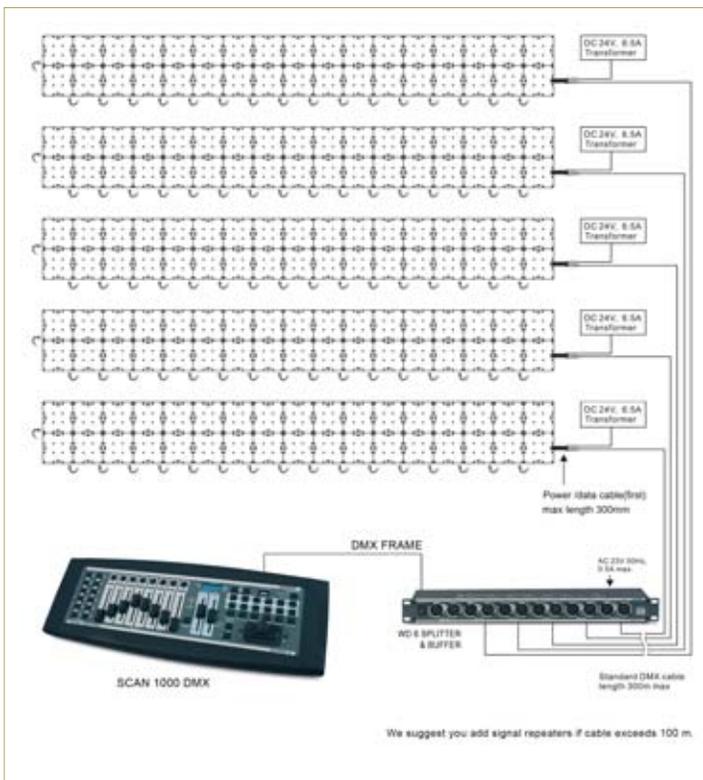SMD RGB LED panel

DMX

DIRECT DMX INPUT

This 16 SMD RGB LED panel does not require any controller. Easy to install, compact and powerful, this innovative concept is particularly adapted to nightclubs, TV studios, casinos or architectonical lighting applications.

Designed for largest installations, this unique system creates spectacular effects using a DMX program and configuring lighting display. Software control allows the conversion of video signals into 48 DMX universes.

All the parameters and functions of **PUZZLED PCB** can be programmed through XB-R1 (device not included) that identifies each unit separately inside the network. **PUZZLED PCB** can work in DMX mode, Autonomous mode or Master/Slave mode.

System configuration.

TECHNICAL DATA	PUZZLED PCB
Colour range:	16.700.000 (24bit).
Distance between pixels:	50 mm.
Light source:	16 SMD RGB LEDs.
Lifetime:	50.000 hours.
Operating voltage:	DC 24 V.
LED type:	SMD RGB.
Power consumption:	4W (170mA).
Wave length:	629(R)/522(G)/472(B) nm.
Light intensity (6.87m):	15.09 (lm).
Beam angle:	120°.
Control:	DMX 512.
Connection:	Terminal 6 pin.
Operating temperature:	-10° C ~ +50° C.
Dimensions (WxHxD):	165 x 165 x 15 mm.
Weight:	80 g.

Mounting kit.
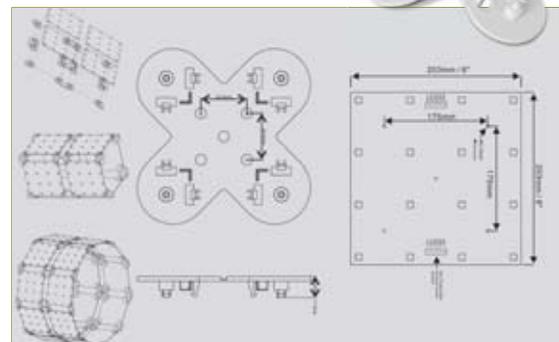
XB-R1

This device configures DMX address and operating modes of **PUZZLED PCB** (not included).

DMX PATCHER

This is an economic solution for **PUZZLED PCB** units addressing.

LED FIXTURES

www.work.es

APU 604

60x60 cm LED panel (4000º K).

APU 605

60x60 cm LED panel (6000º K).

NEW

APU 604 and **APU 605** are two 60 cm square panels that emit white light. The only difference between both panels comes from their colour temperature.

Lambertian reflection provides a uniform light intensity distribution over the entire surface, offering the same brightness on each point of the panel.

APU 604 and **APU 605** are very easy to install, as they feature standard dimensions and do not require any controller. They are particularly appropriate for offices, conference meeting rooms, halls, etc. as they perfectly simulate natural light.
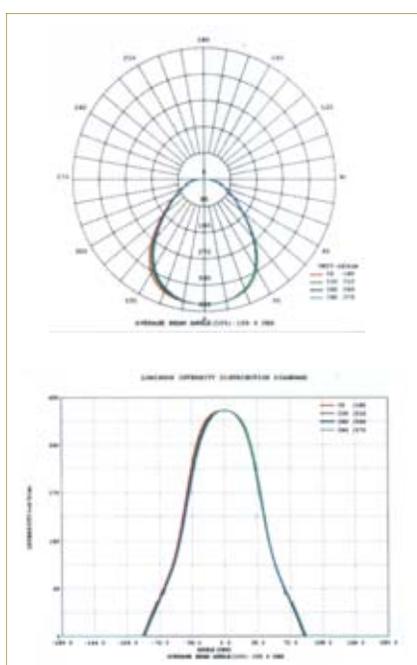
Emission and intensity angles for **APU 604** and **APU 605** panels.

TECHNICAL DATA	APU 604	APU 605
Colour temperature:	4000° K.	6000° K.
Light intensity:	2500 lm.	2500 lm.
Operating temperature:	-20° a + 45°C.	-20° a + 45°C.
Main supply:	AC 110 – 240 V.	AC 110 – 240 V.
Power consumption:	65 W.	65 W.
Dimensions (WxHxD):	600 x 600 x 12 mm.	600 x 600 x 12 mm.

LED FIXTURES

WORK

## LED LINE 200 IP

SMD RGB LED strip

65 IP

NEW

This 336 mm LED strip featuring 14 SMD RGB LEDs takes advantage of the SMD technology that generates colour from a unique point, creating a natural chromatic tone.
Inserted in a transparent capsule of silicon resin, it can be used for both indoor and outdoor applications. An aluminium profile ensures its reliability.

Due to its dimensions and its IP range (IP 65), **LED LINE 200 IP** is suitable for many applications: fixed stages, theatres, corridors, museums, outdoor signalization, etc.

TECHNICAL DATA	LED LINE 200 IP
Light source:	14 SMD RGB LEDs.
Colour range:	16.700.000 (24 bit).
Distance between pixels:	21.4 mm.
Lifetime:	50.000 h.
Main supply:	DC 24 V.
Power consumption:	3.4 W max.
Wave length:	622/630 (R), 524/523 (G), 464/472 (B) nm.
Beam angle:	120°.
Protocol:	DMX 512 .
IP range:	IP 65.
Light intensity:	430 (R), 1000 (G), 230 (B) mcd.
Operating temperature:	0° + 50°C.
Dimensions:	336 x 21 x 9 mm.
Weight:	77 g.

LED FIXTURES
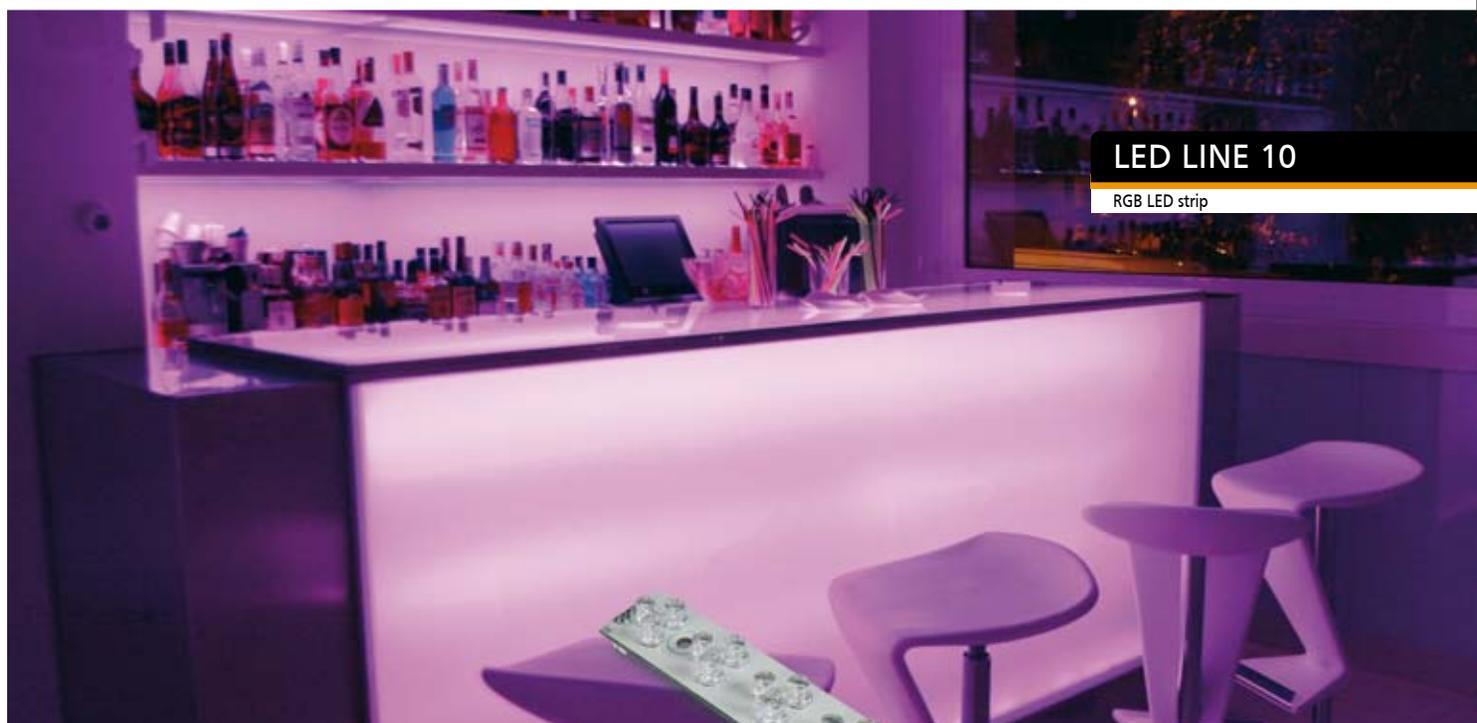
LED LINE 10

RGB LED strip
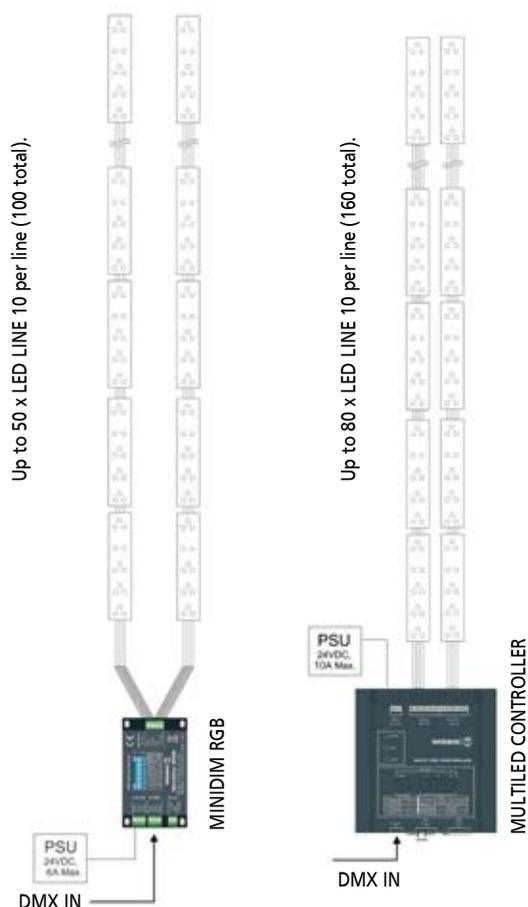
LED LINE 10 is a strip with LEDs grouped in RGB nodes. Due to LEDs high density, colour is totally uniform.

Lighting designers can take advantage of the reduced size of this device, as it allows installing it in any walls, curves and angles. It creates different atmospheres on punctual spaces or background stages using a matrix of **LED LINE 10** units.

Please see pg. 86 for driver and control selection.

Up to 50 x LED LINE 10 per line (100 total).

Up to 80 x LED LINE 10 per line (160 total).

MINIDIM RGB

MULTILED CONTROLLER

DMX IN

DMX IN

TECHNICAL DATA	LED LINE 10
Main supply:	DC 24 V.
LED quantity:	15 LEDs (5R, 5G, 5B).
Beam angle:	120°.
Light intensity:	15.09 lm.
Wave length:	625 (R), 525 (G), 465 (B) nm.
Power consumption:	1.5 W (60 mA).
Connection:	Terminals.
Dimensions (WxHxD):	100 x 16 x 19.5 mm.
Weight:	10.8 g.

LED FIXTURES

WORK

LD5 RGB

5W RGB LED lamp

NEW

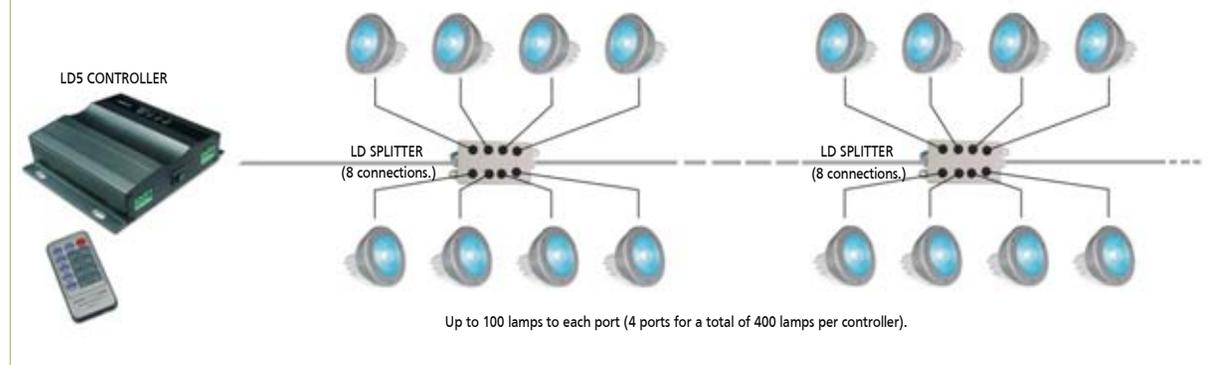LD5 CONTROLLER

Remote control.

LD5 RGB

Thanks to its RGB LED of 5W, **LD5 RGB** creates from a unique point a natural chromatic tone. Its front filter reduces dispersion to reach an important intensity level over the lighting area.

Its MR-16 type lamp socket allows placing it in existing halogen lamp installations. It perfectly integrates itself in corridors, display cases, event rooms, etc.

LD5 CONTROLLER is the driver for **LD5-RGB** control. Featuring four channels, it synchronizes up to 100 units per channel and provides the functions required for a total control on lighting. **LD SPLITTER** ensures the connection between **LD5-RGB** lamps.

LDR-RGB also includes a remote control that allows changing colours and triggering sequences. This is very convenient to change lighting in different areas at the same time and from the same place. Thus, user can select 7 chromatic tones (primary colours and their mixes) and adjust intensity level of each one to get the tone he wants. There are 5 operating modes for colour change: white colour strobe, smooth fade, flash effect, sequences synchronized by audio with speed and fade time adjustment.

LED FIXTURES

LD5 RGB CONNECTION USING LD SPLITTER.

LD5 CONTROLLER

LD SPLITTER
(8 connections.)

LD SPLITTER
(8 connections.)

Up to 100 lamps to each port (4 ports for a total of 400 lamps per controller).

LD5 RGB system allows the connection of up to 100 lamps at each port of the controller (**LD5 CONTROLLER**). It requires **LD SPLITTER** (connection of 8 lamps with input and output signal to increase the system).

1 m extension cable to connect **LD5 RGB** and **LD SPLITTER** together (included with the lamp)

LD SPLITTER

Splitter required for the connection of 8 lamps. Input and output signal to connect the controller to other **LD SPLITTER** (up to 100 lamps per port).

TECHNICAL DATA	LD5 RGB
LED quantity:	1 x 5W LEDs (R, G, B).
Lamp socket:	MR16.
Beam angle:	35°.
Lifetime:	50.000 hours.
Main supply:	AC 12 V.
Dimensions:	49 mm. x Ø 47 mm.
Weight:	30 g.

TECHNICAL DATA	LD5 CONTROLLER
Main supply:	AC 230V 50 Hz. / AC 12 V. (power supply included).
Output:	4.
Max capacity per port:	100 LD5 RGB.
Colours:	7 (primary colours + combination).
Flash function:	Included (with speed control).
Dimensions:	112 x 128 x 28 mm.
Weight:	75 g.

WORK

DECOLED RGB

3W RGB LED spot

DECOLED RGB associates the chassis of the successful Minimultipar spot with LED technology: it becomes possible to control colour and intensity through DMX signal (thanks to **DECOLED CONTROLLER**). Each unit features 3 high intensity RGB LEDs (1W) that can be independently dimerized to achieve the desired colour. Thanks to its modern design, it easily integrates itself in any place.

TECHNICAL DATA	DECOLED RGB
Light source:	3 high intensity RGB LEDs (1W).
Available colours:	Black, Zinc plate and White.
Dimensions:	170 x 90 x 110 mm.

DECOLED CONTROLLER

LED fixture controller

DECOLED CONTROLLER is the supply and control unit for **DECOLED RGB** fixtures.

It provides many operating modes: Manual with individual adjustment of RGB level and dimmer for the 7 integrated patterns, repeat triggering of the 7 integrated patterns, audio synchronization. User can control between 3 and 30 DMX channels to achieve the best combination between units.

TECHNICAL DATA	DECOLED CONTROLLER
Outputs:	10 outputs.
Maximum load:	3 W per output.
DMX control:	6 operating modes (between 3 and 30 DMX channels).
Main supply:	AC 230 V 50 Hz.
Power consumption:	75 W.
Dimensions (WxHxD):	470 x 145 x 48 mm.
Weight:	3.5 kg.

DECOLED WHITE 3K

DECOLED WHITE 6K

3000°/6000° LED spots

DECOLED WHITE 3K

DECOLED WHITE 6K

Efficient **DECOLED WHITE** projectors integrate a driver for LED supply. They provide high light intensity and low power consumption, replacing thus conventional projectors. They feature cable with schuko connectors and filter frame.

The only difference between both panels comes from their colour temperature, so user can choose the one that perfectly meets his needs.

TECHNICAL DATA	DECOLED WHITE 3K	DECOLED WHITE 6K
Beam angle:	25°.	25°.
LED type:	3x1 W.	3x1W.
Brightness:	3000° K.	6000° K.
Main supply:	AC 90- 260V 50 Hz/60 Hz.	AC 90- 260V 50 Hz/60 Hz.
Dimensions (WxHxD):	110 x 90 x 170 mm.	110 x 90 x 170 mm.
Weight:	0.55 kg.	0.55 kg.

LED FIXTURES

MINIDIM 1

MINIDIM RGB

1/3 DMX channel drivers (6 A)

This series of compact LED drivers offers an interesting solution for control and configuration, being a great alternative to conventional dimmers that require many spaces.

Both devices are very compact dimmers that control loads up to 6 A. Their DMX interface allows unit interconnection to supply a complex LED network with a great autonomy in its operation. They adapt themselves to any input between 12 and 24 V.

MINIDIM 1

This 1 channel LED driver is perfectly adequate to white colour LED fixtures. It supports DMX inputs and outputs to link other units as 0-10 V analog signals. Two operating modes are available: starting address channel (DMX) and increasing percentage of output intensity (manual).

MINIDIM 1

| TECHNICAL DATA	MINIDIM 1
Number of channels:	1.
Maximum load:	6 A.
Control signal:	0-10 V Analog/DMX 512.
Connection:	Terminals.
Main supply:	DC 12-24 V 6.5 A max.
Dimensions:	86 x 40 x 15 mm.
Weight:	150 g.

MINIDIM RGB

This is the 3 channel version of **MINIDIM 1**, designed for RGB LED strips. It also supports loads up to 6 A and its DMX interface allows linking units for an extended network. Two operating modes are available: starting address channel (DMX) and increasing percentage of output intensity (manual).

MINIDIM RGB

TECHNICAL DATA	MINIDIM RGB
Number of channels:	3.
Maximum load:	6 A.
Control signal:	DMX 512.
Connection:	Terminals.
Main supply:	DC 12-24 V 6.5 A max.
Dimensions:	86 x 50 x 15 mm.
Weight:	230 g.

LED FIXTURES

WORK
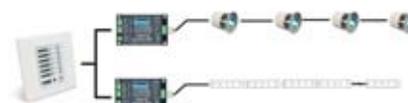
MINIDIM RGB
(DIN version)

RGB LED driver

NEW

This advanced version of **MINIDIM RGB** includes an additional channel for total dimmer. The other distinction is that it provides 8 programs with speed and brightness. Like **MINIDIM RGB**, it supports loads up to 6 A and its DMX interface allows linking units for an extended network.

Two operating modes are available: DMX start channel (DMX) and increasing percentage of output intensity (Manual).

TECHNICAL DATA	MINIDIM RGB (DIN version)
Number of channels:	3 + 1 (full dimmer).
Max. load:	6 A.
Control signal:	DMX 512.
Connexion:	Terminals.
Main supply:	DC 12-24 V 6.5 A max.
Dimensions (WxHxD):	66 x 84 x 30 mm.
Weight:	270 g.

Up to 100 **LED LINE 10** per output (total 2 lines 50 units).

Up to 100 **LED LINE 10** per output (total 2 lines 50 units).

ZONE A   ZONE B

SLA series is suitable for DIN rails.

Installation with two different zones controlled from and unique **AR 6**.
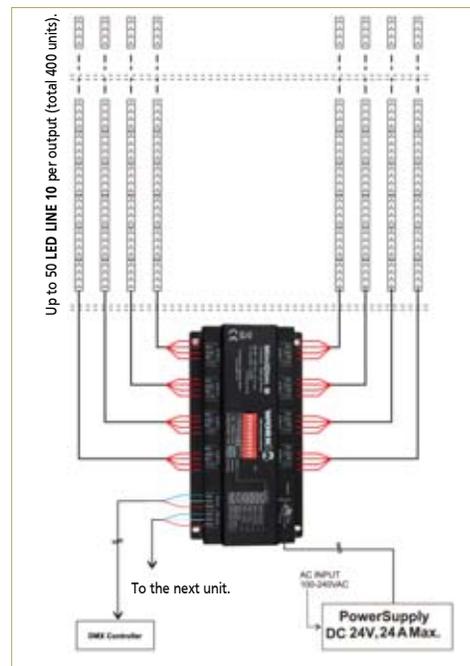
MINIDIM 8
(DIN version)

8 RGB channel LED driver

NEW

MINIDIM 8 is a RGB driver featuring eight outputs of 3 channels each.

Several operating modes are available. Depending on it, outputs can be grouped in 25, 13, 7, 4, 2 or 1 DMX channels. This is particularly helpful because it increases possibilities to customize lighting installations: using **MINIDIM 8**, lighting designers can set the colour for each LED strip, taking advantage of 8 RGB outputs controlled through DMX signal.

TECHNICAL DATA	MINIDIM 8 (DIN version)
Number of channels:	1, 2, 4, 7, 13, 25 (depending on operating mode).
Max. load:	3 A per output.
Control signal:	DMX 512.
Connexion:	Terminals.
Main supply:	DC 12-24 V 6.5 A max.
Dimensions (WxHxD):	135 x 84 x 30 mm.
Weight:	650 g.

Up to 50 **LED LINE 10** per output (total 400 units).

To the next unit.

AC INPUT 100-240VAC

DMX Controller

PowerSupply DC 24V, 24 A Max.

Installation with eight zones. Depending on operating mode, they can be grouped in different environnements.

MULTILED CONTROLLER

3 channel DMX driver/controller

MULTILED CONTROLLER is a driver for LED strips with many functions and supporting important loads. It adapts itself to any input between 12 and 24 V. Its double output allows loading up to 5 A (per output) so large lighting installations can be controlled with a unique device.

There are three ways to control this device:
1. By **DMX signal**: control is made by 3 channels (R+B+G); DMX start address configurable by DIP switch.

2. By **remote controller** (Included): users can use it to access to different colours and chases.

3. Through **automatic modes**: The unit features 9 operating modes (configurable by DIP switch and selection buttons). These operating modes provide an individualized control of primary colours, colour loops and full RGB mix with fade time control.

FEATURES

- Controller/Driver for RGB LEDs.
- 2 outputs, each one supporting up to 5 A.
- 9 configurable operating modes.
- IR remote control.
- LED indicator for DMX presence and error.

TECHNICAL DATA	MULTILED CONTROLLER
Outputs:	2 RGB x 5 A (parallel).
DMX channels:	3 channels.
Operating modes:	9.
Main supply:	DC 9-24 V (10 A max.).
Dimensions:	125 x 115 x 40 mm.
Weight:	0.5 kg.

Up to 40 **LED DOT RGB** per line (total 80).

DMX IN

MULTILED CONTROLLER

Lightmouse series
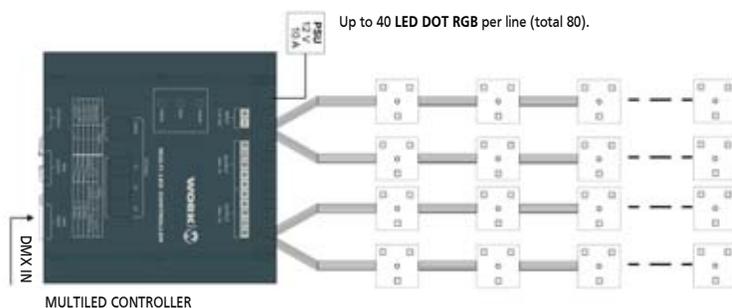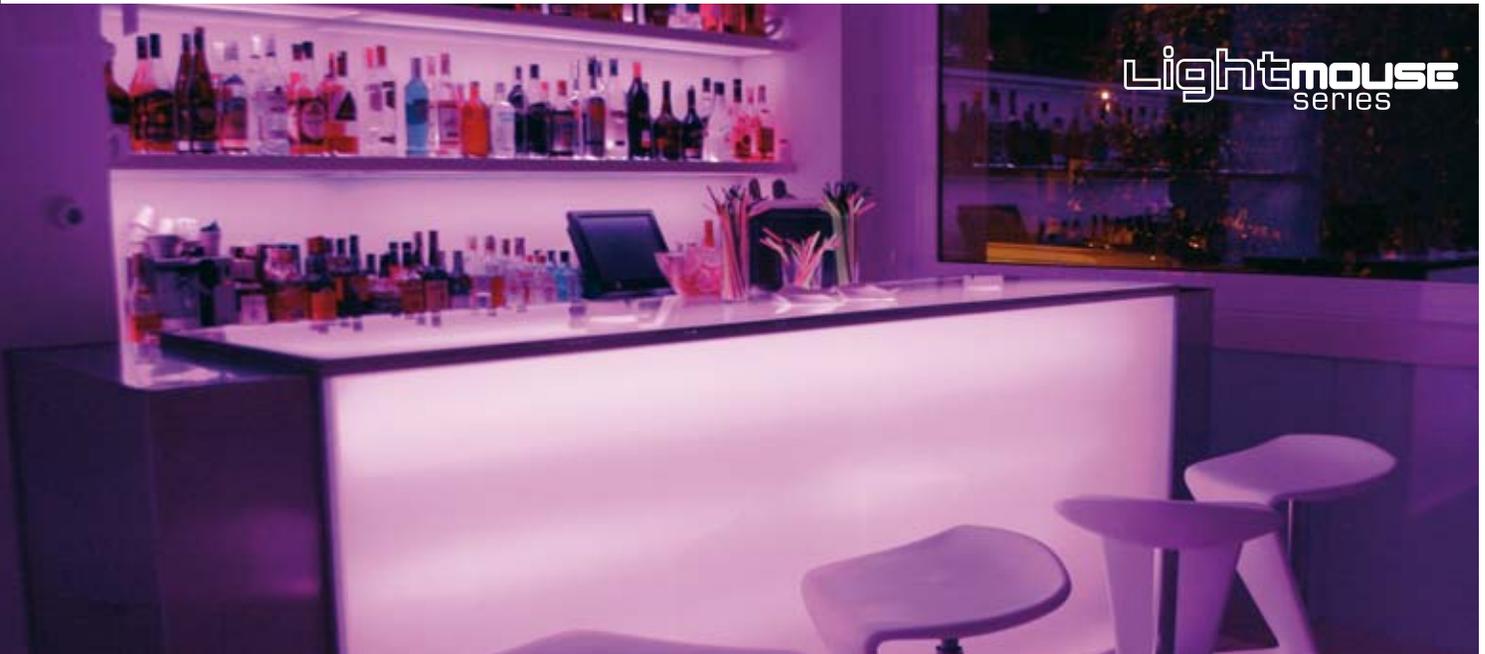
LM-4 POWER

DMX/Ethernet LED driver

NEW

ArtNet COMPATIBLE

LM-4 Power is the first LED driver designed to work through Ethernet network. It associates in a unique device 2 powerful tools:

- LED driver through ArtNet.
- LED driver through DMX.

WEB SERVER for **LM-4 POWER** configuration. It is possible to edit IP address and unit description.

LED FIXTURES

Advantages of such a combination are obvious, as it allows almost any RGB LED installations:
  - In conventional lighting installations, by connecting a DMX consol to **LM-4 Power** input (DMX mode, see scheme 1).
  - In integrated lighting system installations working in an Ethernet network, with several DMX universes (ArtNet mode, see scheme 2).

Configuration of both DMX and ArtNet modes is very easy and allows saving many time in installation:
  - Through DMX mode, user only has to indicate DMX start address.
  - Through ArtNet mode, using DIP-switch to select Subnet mask and universe (as well as DMX start address).

LM-4 Power also stands out for the output power it can manage: indeed, it features independent colour channels divided in 2 RGB outputs of 15 A each (5 A per colour, max load of 30 A). Associated with its great control capabilities and its very small size, **LM-4 Power** can be considered as an adequate solution for any lighting installation.

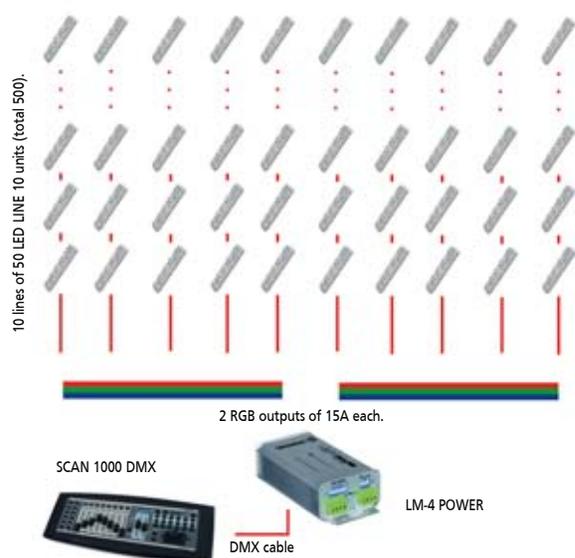Dimensions (WxHxD): 82 x 45 x 120 mm.

Front panel for LAN connection, group selector and LED for DMX and Ethernet signal

2 RGB outputs of 5 A per colour (total 30A). DIP switch for DMX address Net mask selection, depending on operating mode (DMX or ArtNet).

SCHEME 1

SCHEME 2

10 lines of 50 LED LINE 10 units (total 500).

2 RGB outputs of 15A each.

SCAN 1000 DMX

LM-4 POWER

DMX cable

LM-3R

SIDIUS 1200

ArtNet

LAN
ETHERNET

SIDIUS 575 SPOT

LightOn 3

LM-4 POWER

2 RGB outputs of 15A each.

10 lines of 50 LED LINE 10 units (total 500).

LM-4 POWER in an installation that receives direct DMX signal from a lighting console. Load power capacity of **LM-4 POWER** allows connecting up to 500 **LED LINE 10** units.
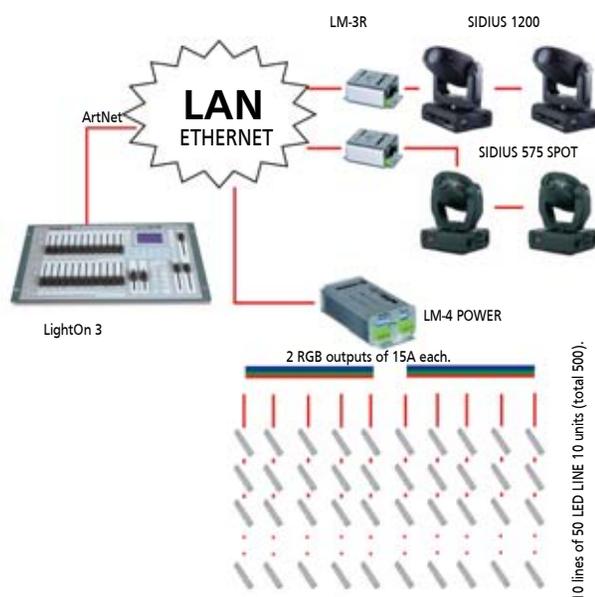
LM-4 POWER in an installation with Ethernet network. The console sends signal to various universes through ArtNet protocol. 2 **LM-3R** units control moving heads and 1 **LM-4 POWER** controls a LED LINE matrix.

LED FIXTURES

WORK

SUGGESTED CONTROLLERS DEPENDING ON LED FIXTURES

LED CONTROL 3000 IR

LED LINE 102

400 units: 50 per output (max: 25 per line).

LED LINE 300

320 units: 40 per output (max: 20 per line).

LM-4 POWER

MULTILED CONTROLLER

MINIDIM RGB
MINIDIM RGB
(DIN version)

MINIDIM 8
(DIN version)

LED LINE 200 IP

LM-4 POWER: 200 units (max: 25 per line).
MULTILED CONTROLLER: 64 units (max: 32 per line).
MINIDIM RGB: 440 units (max: 20 per line).
MINIDIM 8: 20 units per output (Total 160 units).

LED LINE 10

LM-4 POWER: 500 units (max: 50 per line).
MULTILED CONTROLLER: 160 units (max: 40 per line).
MINIDIM RGB: 100 units (max: 50 per line).
MINIDIM 8: 50 units per output (Total 400 units).

LED LINE 6

LM-4 POWER: 400 units (max: 40 per line).
MULTILED CONTROLLER: 108 units (max: 54 per line).
MINIDIM RGB: 100 units (max: 50 per line).
MINIDIM 8: 40 units per output (Total 320 units).

WRN 1230

LM-4 POWER: 20 units (max: 5 per line).
MULTILED CONTROLLER: 6 units (max: 2 per line).
MINIDIM RGB: 4 units (max: 2 per line).
MINIDIM 8: 2 units per output (Total 16 units).

WRN 1830

LM-4 POWER: 12 units (max: 3 per line).
MULTILED CONTROLLER: 4 units (max: 2 per line).
MINIDIM RGB: 3 units (max).
MINIDIM 8: 1 unit per output (Total 8 units).

WBAR 1230

LM-4 POWER: 20 units (max: 5 per line).
MULTILED CONTROLLER: 6 units (max: 2 per line).
MINIDIM RGB: 4 units (max: 2 per line).
MINIDIM 8: 2 units per output (Total 16 units).

WBAR 1830

LM-4 POWER: 12 units (max: 3 per line).
MULTILED CONTROLLER: 4 units (max: 2 per line).
MINIDIM RGB: 3 units (max).
MINIDIM 8: 1 unit per output (Total 8 units).

WBAR 2430

LM-4 POWER: 10 units (max: 3 per line).
MULTILED CONTROLLER: 2 units (max).
MINIDIM RGB: 2 units (max).
MINIDIM 8: 1 unit per output (Total 8 units).

VIDEO TUBE DRIVER IP

3 units (max) per distributor **JB-2.**

VIDEO TUBE 1200

5 units (max) through DMX 512 / 20 units (max) through DMX 1000 K (1 M).

VIDEO TUBE 600

11 units (max) through DMX 512 / 40 units (max) through DMX 1000 K (1 M).

MINI VIDEO DRIVER

LED LINE VIDEO

6 units (max) through DMX 512 / 60 units (max) through DMX 1000 K (1 M).

DECOLED CONTROLLER

DECOLED RGB

10 units (max).

LD5 CONTROLLER

LD5 RGB

400 units (max: 100 per port / 4 ports).
1 **LD SPLITTER** (power unit) for 8 **LD5 RGB.**

SUGGESTED CONTROLLERS

12/24V POWER SUPPLY

Power units for LED effects

This series of switch power supply allows the configuration of stable LED installations. Their internal circuitry provides a constant voltage. For maximum security, they all feature a cooling system and internal protections.

Four ranges of power supply are available, each one with specific power (100 W, 15 W, 200 W and 480 W) and output voltage (5 V, 12 V and 24 V). 100 W version is only available with 12 V.

	TECHNICAL DATA	SP-480-12	SP-480-24	S-40-5
OUTPUT	Output voltage:	12 V.	24 V.	5 V.
	Current:	40 A.	20 A.	8 A.
	Power:	480 W.	480 W.	40 W.
	Voltage range:	10.8 - 13.2 V.	22 - 27.6 V.	4.75 - 5.5 V.
INPUT	Voltage range:	AC 85-264 V DC 120-370 V.	AC 85-264 V DC 120-370 V.	AC 85-264 V DC 120-370 V.
	Frequency range:	47 - 63 Hz.	47 - 63 Hz.	47 - 63 Hz.
	Power factor:	PF>0.95 / AC 230 V.	PF >0.95 / AC 230 V.	PF >0.95 / AC 230 V.
PROTECTIONS	Overload:	45.15 - 58.05 A.	23.1 - 29.7 A.	8.2 - 12 A.
	Overvoltage:	13.8 - 16.2 V.	28.8 - 33.6 V.	5.75 - 6.75 V.
	Overheat:	80°C (TSW1) 90°C (TSW2).	80°C (TSW1) 90°C (TSW2).	- - - - - - - - - - - - - - - - - - -
	Dimensions:	278 x 127 x 43 mm.	278 x 127 x 43 mm.	129 x 98 x 38 mm.
	Weight:	1.7 kg.	1.7 kg.	0.44 kg.

	TECHNICAL DATA	S-100-F-12	S-150-12	S-150-24
OUTPUT	Output voltage:	12 V.	12 V.	24 V.
	Current:	8.5 A.	12.5 A.	6.5 A.
	Power:	102 W.	150 W.	156 W.
	Voltage range:	11.4 - 13.2V.	10.6 - 13.2 V.	21 - 28 V.
INPUT	Voltage range:	AC 85-264 V DC 120-370 V.	AC 88-132 V DC 176-264 V selectable.	AC 88-132 V DC 176-264 V selectable.
	Frequency range:	47 - 63 Hz.	47 - 63 Hz	47 - 63 Hz.
PROTECTIONS	Overload:	105-150% power output.	105-150% power output.	105-150% power output.
	Overvoltage:	13.2 - 16.2 V.	13.8 - 16.2 V.	30 - 34.8 V.
	Dimensions:	199 x 98 x 38 mm.	199 x 110 x 50 mm.	179 x 110 x 50 mm.
	Weight:	0.66 kg.	0.8 kg.	0.8 kg.

	TECHNICAL DATA	SP-200-12	SP-200-24
OUTPUT	Output voltage:	12 V.	24 V.
	Current:	16.7 A.	8.4 A.
	Power:	200.4 W.	201.6 W.
	Voltage range:	11.4 - 13.2 V.	22.8 - 26.4 V.
INPUT	Voltage range:	AC 85-264 V DC 120-370 V.	AC 85-264 V DC 120-370 V.
	Frequency range:	47 - 63 Hz.	47 - 63 Hz.
	Power factor:	PF>0.93/ AC 230 V.	PF>0.93/ AC 230 V.
PROTECTIONS	Overload:	105-150% power output.	105-150% power output.
	Overvoltage:	13.2 - 16.2 V.	26.4 - 32.4 V.
	Overheat:	95°C.	95°C.
	Dimensions:	199 x 99 x 50 mm.	199 x 99 x 50 mm.
	Weight:	0.85 kg.	0.85 kg.

FUENTES DE ALIMENTACIÓN

WORK

WASHLIGHTS

65 IP

LED RGB effects

NEW

WBAR 1230
WBAR 1830
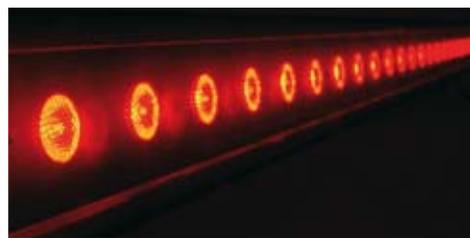**WBAR 2430**

3W THREE-COLOR LED

WBAR 1230

WBAR 1830

WBAR 2430

These 3 fixtures feature RGB LEDs built in a strong bar for its installation on walls and ceilings. Their housing with crystal cover makes possible their use in indoor and outdoor installations (they all have IP 65 range).

If the 3 models use the same supply (DC 24 V), each unit has its own number of LEDs with a precise power. Wash effect on front panel scatters the colour and provides a natural and uniform chromatic tone.

TECHNICAL DATA	WBAR 1230	WBAR 1830	WBAR 2430
LED quantity:	12 (RGB).	18 (RGB).	24 (RGB).
Individual LED consumption:	3 W.	3 W.	3 W.
Beam angle:	15°.	15°.	15°.
Main supply:	DC 24 V.	DC 24 V.	DC 24 V.
Control mode:	RGB.	RGB.	RGB.
Max. power consumption:	36 W.	54 W.	72 W.
Dimensions (WxHxD):	660 x 80 x 80 mm.	1000 x 80 x 80 mm.	1200 x 80 x 80 mm.
Weight:	2.8 kg.	3.5 kg.	4.2 kg.

LED FIXTURES

WBAR 2430

KBR 100 1 meter.
KBR 200 2 meters.

Cables for interconnection between units and controller. It transports RGB signal and power supply. 2 available lengths: 1 or 2 meters.

Please see pg. 86 for driver and control selection.

MINIDIM RGB   KBR 100 / KBR 200

4 **WBAR 1230** units per output line.

3 **WBAR 1830** units per output line.

2 **WBAR 1830** units per output line.
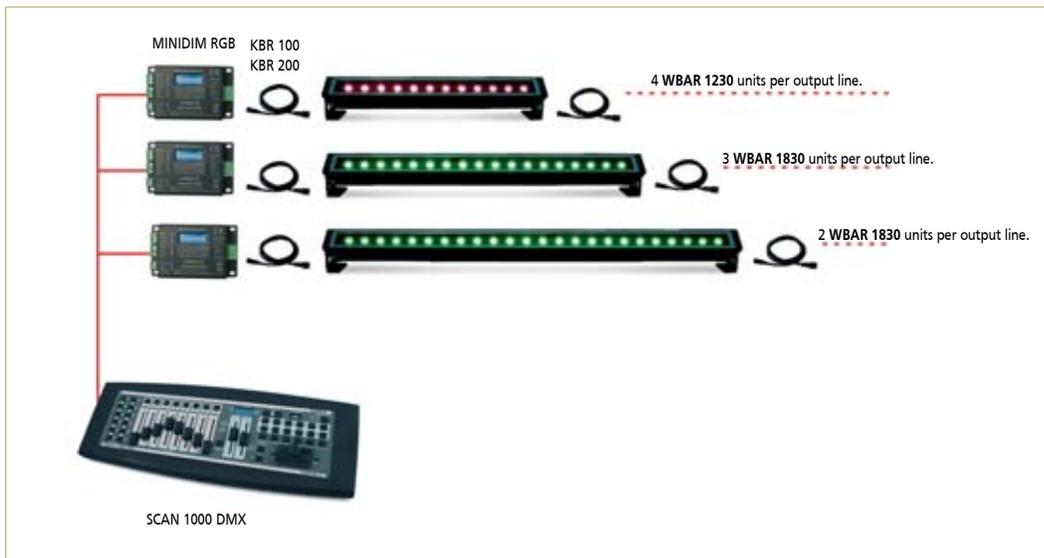
SCAN 1000 DMX

Connection example with the 3 WASHBAR models using **MINIDIM RGB** drivers and **KBR** interconnection cables. Control from a lighting console (**SCAN 1000 DMX**).

LED FIXTURES

WRN 1230 **65 IP**
WRN 1830 **65 IP**

RGB LED WASH projectors

3W THREE-COLOR LED

WRN 1230

WRN 1830

NEW

Please see pg. 86 for driver and control selection.

WRN series are fixtures with RGB LEDs and designed in a round housing. It offers many possibilities for architectural applications: wall painting, specific focus on one direction, building entrances, etc.

Its aluminium housing with crystal cover makes possible its use in indoor and outdoor installations (they all have IP 65 range).

Number of 3 W LEDs changes depending on the model (12 for **WRN 1230** and 18 for **WRN 1830**). Each LED has a WASH type lens that scatters the colour and provides a natural and uniform chromatic tone.

There are many way to fix them: on walls, ceilings, floors or any furniture. In addition, the strong base of these units allows turning the optical element at 180°.

MINIDIM RGB

KBR 100
KBR 200

4 WRN 1230 units per output line.

3 WRN 1830 units per output line..

SCAN 1000 DMX

Connection example with WRN projectors using **MINIDIM RGB** and **KBR** interconnection cables. Control from a lighting console (**SCAN 1000 DMX**).

KBR 100 1 meter.
KBR 200 2 meters.

Cables for interconnection between units and controller. It transports RGB signal and power supply. 2 available lengths: 1 or 2 meters.

TECHNICAL DATA	WRN 1230	WRN 1830
LED quantity:	12 (RGB).	18 (RGB).
Individual LED consumption:	3 W (tri-colour).	3 W (tri-colour).
Beam angle:	35°.	35°.
Main supply:	DC 24 V.	DC 24 V.
Control mode:	RGB.	RGB.
Max. power consumption:	36 W.	54 W.
Dimensions:	265 x 315 x240 mm.	265 x 315 x 240 mm.
Weight:	3.8 kg.	3.8 kg.

LED FIXTURES

WORK

FLOODLED PRO IP 65 IP

45W RGB LED projector

NEW

DMX

TECHNICAL DATA	FLOODLED PRO IP
LED quantity:	6 LEDs (1 W each). (12R+12G+12B).
Beam angle:	25°.
Operating modes:	DMX/Auto/Master-Slave.
DMX channels:	6.
Flash ratio:	1-8 flash p/s.
IP range:	IP 65.
Power consumption:	54 W.
Main supply:	AC 110-240 V, 50-60 Hz.
Dimensions:	465 x 375 x 400 mm.
Weight:	7.5 kg.

Thanks to its IP range (IP 65), this projector of 36 high intensity LEDs (1W each, 12 for each primary colour) is perfectly appropriate for outdoor and indoor installations.

Its beam angle is particularly useful to "paint" large areas and to use it like floodlight thanks to its beam width. It features several operating modes (DMX, Audio, Master/Slave, etc.) easily accessible through the rear panel interface.

FLOODLED PRO 45
144W RGB LED projector

DMX

NEW
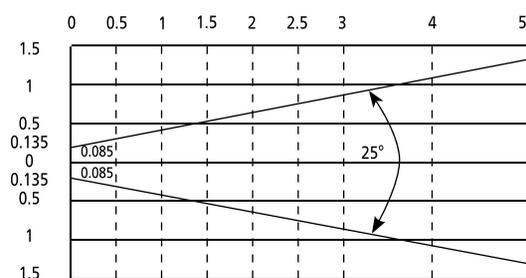
FLOODLED PRO 45 is a lighting effect with RGB LED technology that creates many effects thanks to its different operating modes. Aluminium housing and front crystal cover provides resistance to the fixture. Due to its form, there is no problem to integrate it on stages (mobile applications, theatres, etc.).

It features 45 LEDs (15 R, 15G, 15B), each one with WASH type lens that scatters the colour and provides a natural and uniform chromatic tone.

DMX control of the fixture depends on operating mode:
- 1 channel: selection of one colour from the 36 variations.
- 2 channels: macro selection and brightness.
- 3 channels: individualized control of RGB colours.
- 7 channels: Mix of the previous operating modes + strobe and Master control.

In addition to DMX modes, **FLOODLED PRO 45** can operate in audio mode (audio synchronization) or with one of the six preset programs. Rear interface shows the operation mode in action and features buttons to change modes.

TECHNICAL DATA	FLOODLED PRO 45
LED quantity:	45 LEDs (15R+15G+15B)
DMX channels:	1,2,3,7 (depending on operating mode).
Main supply:	AC 100-240 V, 47-63 Hz
Power consumption:	61 W (AC 230 V).
Dimensions:	340 x 196 x 160 mm.
Weight:	4.6 kg.

	0.5m	1m	1.5m	2m	2.5m	3m	4m	5m	
RED	5190	1930	910	500	324	229	129	88	LUX
GREEN	7710	2960	1420	760	504	357	200	137	LUX
BLUE	540	200	90	50	35	25	15	10	LUX
WHITE	13420	5070	2320	1320	854	607	342	235	LUX
L x W	L: 0.492 W: 0.392	L: 0.492 W: 0.392	L: 0.492 W: 0.392	L: 0.492 W: 0.392	L: 0.492 W: 0.392	L: 0.492 W: 0.392	L: 0.492 W: 0.392	L: 0.492 W: 0.392	m.

LED FIXTURES

WORK

SUPERBLINDLED 4 IP

65 IP

144 W RGB LED projector

NEW

DMX

TECHNICAL DATA	SUPERBLINDLED 4 IP
LED quantity:	4 x 36 (1W each). (12R+12G+12B).
Beam angle:	15°.
Operating modes:	DMX/Auto/Master-Slave.
DMX channels:	7.
Flash ratio:	1-8 flash p/s.
IP range:	IP 65.
Power consumption:	162 W.
Main supply:	AC 110-240 V 50-60 Hz.
Dimensions:	440 x 440 x 265 mm.
Weight:	12 kg.

This projector is adequate to outdoor installations due to its elevate IP range (IP 65). It features 4 independent blinder spots with 36 high intensity LEDs (1W each, total 144 LEDs).

Its beam angle is particularly appropriate for large lighting areas and for live shows.

It includes 3 operating modes (DMX, Auto, Master/Slave) easily accessible from the rear panel interface.

LED FIXTURES

NEW

TL 9 LED

RGB LED truss illuminator

TL 9 LED is a truss illuminator with functions like colour-change and RGB colour mixing. It features 1W LEDs and, thanks to its display and its access buttons, it results very easy to edit the different operating modes.

There are 3 operating modes using DMX:

- 3 channels: dimmer control of each primary colour group.
- 5 channels: Master control + strobe function.
- 9 channels: LED distribution in 3 groups + dimmer individualized control.

TL 9 LED also provides an audio synchronization mode with colour patterns and speed adjustment. A manual configuration is possible for dimmer level of each colour: this is particularly appropriate for permanent light effects.
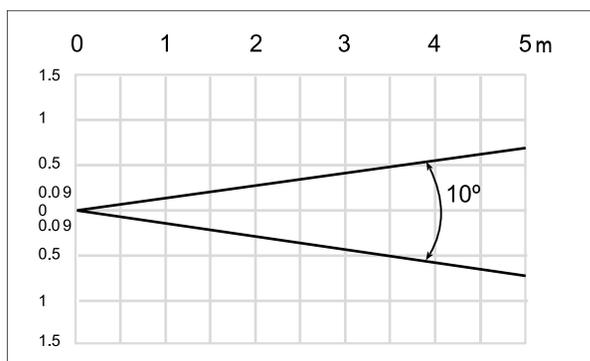
TECHNICAL DATA	TL 9 LED
DMX channels:	3 modes (3, 5, 9 channels).
LED quantity:	9 LEDs (1 W each / 2R, 3G, 3B).
Lifetime:	50.000 h.
Wave length:	1343 R, 3430 G, 253 B, 4830 Wh @ 1m.
Main supply:	AC 230 V 50 Hz.
Dimensions (WxHxD):	270 x 220 x 310 mm.
Weight:	2.3 kg.

DMX

LED FIXTURES

WORK
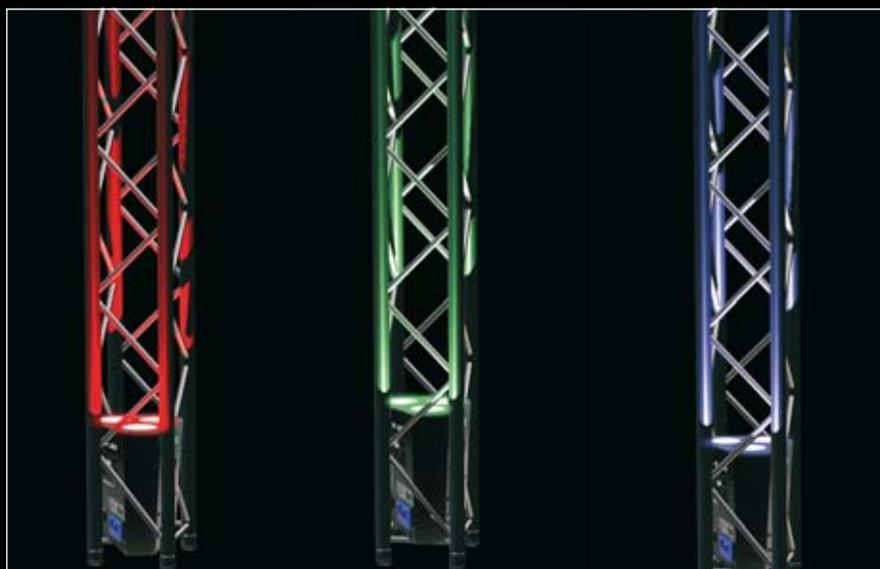
SuperParLED 3610 IP

RGB LED projector

65 IP

NEW

DMX

This projector is adequate to outdoor installations due to its elevate IP range (IP 65). Its reduced beam angle makes it particularly appropriate for light intensity focus, avoiding light dispersion.

It features 36 high intensity LEDs (1 W each, 12R,12G,12B), and includes operating modes (DMX, Auto, Master/Slave) easily accessible from the rear panel interface.

With the double-handling system, **SUPERPARLED 3610 IP** easily integrates itself on trusses, floors and walls.

TECHNICAL DATA	SUPERPARLED 3610 IP
LED quantity:	36 LEDs of 1W each (12R, 12G, 12B).
Beam angle:	15°.
Operating modes:	DMX/Auto/Master-Slave.
DMX channels:	6.
Flash ratio:	1-8 flash p/s.
IP range:	IP 65.
Power consumption:	54 W.
Main supply:	AC 110-240 V 50-60 Hz.
Dimensions:	350 x 285 x 275 mm.
Weight:	4 kg.

LED FIXTURES

RGB:LED

54W LED PROJECTOR

PARLED PRO 64

54W RGB LED projector

This range of projectors featuring 18 LEDs (3 W each) include the three RGB colours in the same LED, creating colour mixing from a unique point to achieve optimum colour definition.

All the electronic for control has been inserted in a conventional PAR 64 spot so they can be integrated in any installations using PAR spots. Contrary to conventional spots, there is no need to change filters.

DMX control of these fixtures depends on selected operating mode (36 variations, macro selection, brightness configuration, individualized RGB control, mix of previous modes, strobe control and master control). These projectors can also operate in audio modes, using one of the 6 preset programs.

NEW

TECHNICAL DATA	PARLED PRO 64/IP
LED quantity:	18 RGB (3 in 1).
Individual LED consumption:	3 W each one.
DMX channels:	1,2,3,7 (depending on operating mode).
Main supply:	AC 100-240 V, 47-63 Hz.
Power consumption:	62 W (AC 230 V).
Dimensions:	**PARLED PRO 64**: 472 x 276 x 266 mm. **PARLED PRO 64 IP**: 265 x 333 x 296 mm.
Weight:	**PARLED PRO 64**: 4.1 kg. **PARLED PRO 64 IP**: 7.1 kg.

DMX

65 IP PARLED PRO 64 IP

RGB LED projector for outdoor applications

NEW

25°
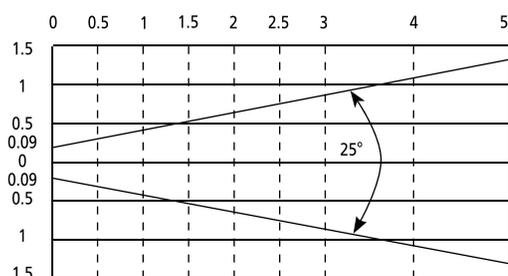
	0.5m	1m	1.5m	2m	2.5m	3m	4m	5m	
RED	1860	1000	350	200	140	110	60	50	LUX
GREEN	1350	390	210	130	90	60	40	30	LUX
BLUE	48	13.7	8.8	4.7	3.6	2.9	2.2	1.4	LUX
WHITE	2620	1390	730	420	300	200	120	90	LUX
Ø	0.401	0.623	0.845	1.066	1.288	1.510	1.953	2.396	m

DMX

LED FIXTURES

WORK

Serie MULTIPAR LED

RBG and WHITE LED projectors

MULTIPAR LED 1W Colour features 24 LEDs (1 W each) divided in RGB colours (8R, 8G, 8B). It can be manually controlled or using DMX signal, though its four control channels. DMX start address can be configured by DIP switches.

Its internal memory includes preset programs that can be triggered in automatic or audio modes. It is so easy to use that is can be controlled without lighting console.

TECHNICAL DATA	MULTIPAR LED 1W Colour
Operating modes:	DMX, Auto, Manual and Audio (internal microphone).
DMX channels:	7.
Power consumption:	30 W.
Main supply:	AC 220V 50 Hz.
Dimensions (WxHxD):	210 x 210 x 130 mm.
Weight:	3 kg.

DMX

MULTIPAR LED 1W Colour

MULTIPAR LED 1W WHITE features 24 white LEDs that provide high luminosity for a perfect integration in conventional lighting installations using Multipar. Its internal memory includes preset programs that can be triggered in automatic or audio modes. It is so easy to use that is can be controlled without lighting console.

TECHNICAL DATA	MULTIPAR LED 1W WHITE
Operating modes:	DMX, Auto, Manual and Audio (internal microphone).
DMX channels:	3.
Power consumption:	30 W.
Main supply:	AC 220V 50 Hz.
Dimensions (WxHxD):	210 x 210 x 130 mm.
Weight:	3 kg.

DMX

MULTIPAR LED 1W WHITE

LED FIXTURES

MULTIPAR LED is a projector featuring 150 LEDs in a MULTIPAR. All the electronic for control has been inserted in a conventional PAR 64 spot so they can be integrated in any installations using PAR spots.

Different operating modes are available to control this fixture: automatic mix with speed selection, audio synchronization or DMX signal. For the latter, **MULTIPAR LED** uses 6 channels: 3 for individual control of R,G,B colours and 3 others for preset colour macro selection, strobe effects and automatic modes.

DMX

MULTIPAR LED

TECHNICAL DATA	MULTIPAR LED
Operating modes:	DMX, Auto, Manual and Audio (internal microphone).
DMX channels:	6.
Power consumption:	20 W.
Main supply:	AC 220V 50 Hz.
Dimensions (WxHxD):	210 x 210 x 130 mm.
Weight:	2.5 kg.

MINIMULTIPARLED 121

RGB LED projector

DMX

MINIMULTIPARLED 121 is a projector that includes high efficiency LEDs (1 W each) with colour-change and RGB colour-mixing functions.

Thanks to its dimensions and because there is no heat emission, it can be easily integrated in stores, booths or expositions to highlight exhibited products.

Different operating modes are available to increase possibilities for effects. Thus, DMX control mode includes 6 operating modes: preset colour macro selection (36 available), independent control of primary colour groups and final mix, strobe effects with speed adjustment, audio synchronization (6 internal programs with speed control) and control of 7 colour pattern trigger speed (loop mode).

TECHNICAL DATA	MINIMULTIPARLED 121
DMX channels:	6 modes (1, 2, 3, 4, 6 , 7 channels).
LED quantity:	12 LEDs (4 R, 4 G, 4 B).
Lifetime:	50.000 hours.
Main supply:	AC 230 V 50 Hz.
Power consumption:	21 W.
Dimensions:	250 x 185 x 140 mm.
Weight:	2.4 kg.

LED FIXTURES

WORK