

## 12 input – 12 output or 16 input – 16 output ultra-thin and ultra-light DVI Matrix Switchers for conference room, medical, avionics and 3D imaging

MX12x12DVI-Slim and MX16x16DVI-Slim are today's smallest and lightest 12x12 or 16x16 DVI matrix switchers that offer 12 inputs and 12 outputs

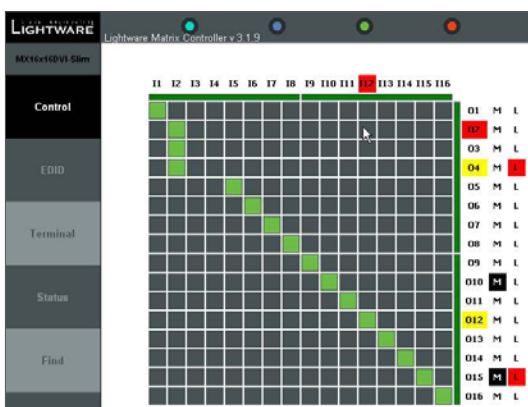
or 16 inputs and 16 outputs. The 1.2 inch depth, Aluminium alloy body and fan-less design makes it ideal for many space and noise sensitive applications. In space constrained systems, MX12x12DVI-Slim and MX16x16DVI-Slim can even be mounted behind other rackmounted equipment.



The frames are equipped with gold plated screw-locking DVI connectors, dust-proof and also lockable Neutrik Ethercon and high current Speakon power connectors which ensure a robust connection at all times. All outputs supply 500 mA continuous current on DVI +5V pin to power long distance fiber optical transmitters like Lightware DVI-OPT-TX100.

MX12x12DVI-Slim and MX16x16DVI-Slim incorporate a robust +12dB input cable equalization that allows using up to 20 meter DVI cables even on highest resolutions. Thanks to the switchers' non-blocking architecture, any input can be switched to any or more outputs without switching delay or frame latency.

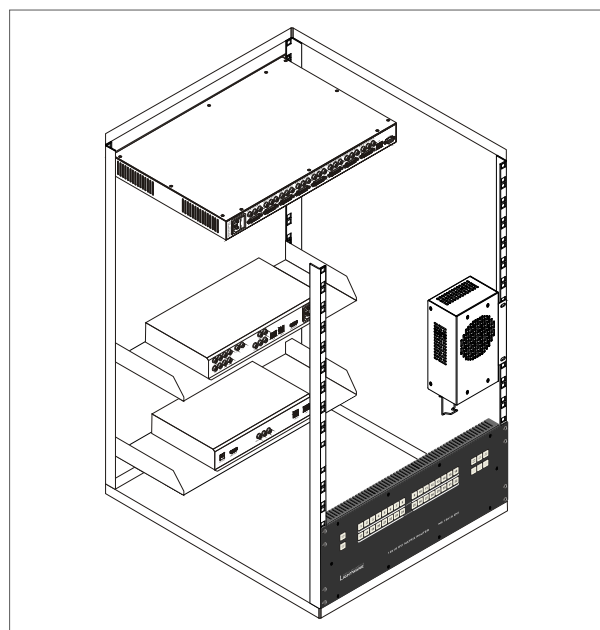
### Matrix Controller software



#### RS-232; IP or WEB based remote control and monitoring

- Crosspoint switching
- EDID Management
- Setup and configuration
- Status readout

### Alternative rack mounting for space saving applications



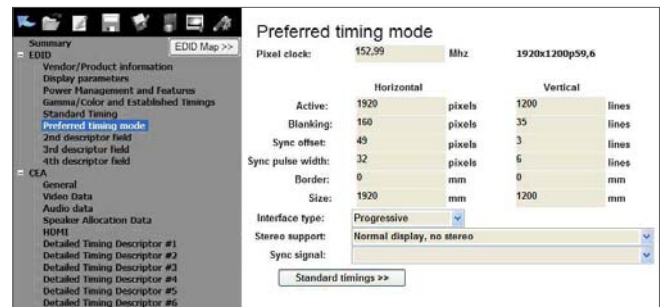
MX12x12DVI-Slim and MX16x16DVI-Slim can be controlled via a built-in website, or via LAN or RS-232 using Lightware's **Matrix Controller software**. Both matrices provide Lightware's Advanced EDID Management feature, making it possible to emulate 100 EDIDs, 50 of which are factory preset and 50 are user programmable. The Matrix Controller software contains Lightware's built-in **Advanced EDID Editor**, which provides the following functions:

- **Function 1:** Advanced EDID Editor can **translate** the binary data into readable english format, which contains every information stored in the EDID data structure and the optional extensions. The report provides a quick and easily understandable overview of all the available settings.
- **Function 2:** **Edit or create a new EDID**. All settings, which are defined in the standards, can be edited on an intuitive user interface. The editing of additional CEA extensions is also supported.
- **Function 3:** **Save** the modified or created EDIDs in different compatible file formats or **upload** them immediately to the memory of MX12x12DVI-Slim or MX16x16DVI-Slim.
- **Function 4:** **Download EDID**, **open EDID** from file or **view the EDID of your display**. There are three options to open an EDID: they can be downloaded from MX16x16DVI-Slim or MX16x16DVI-Slim, they can be opened from file and they can be fetched from a display device actually connected to the computer.
- **Function 5:** A wizard-like interface is also included which makes it possible to create new EDIDs with the most common features just by a few clicks. You only have to specify the desired video format and let the program calculate every other parameter automatically.

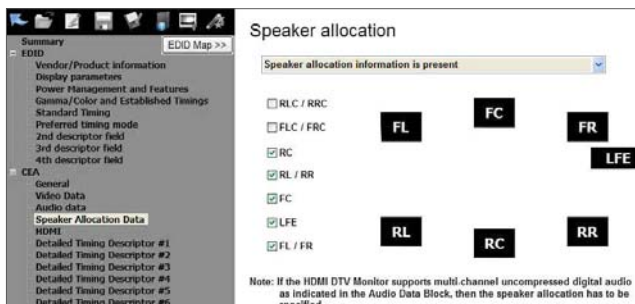
## Software screenshots



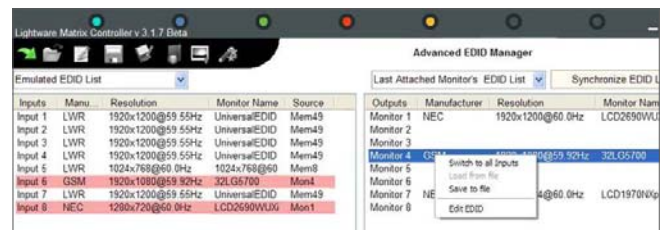
4 step Easy EDID Creator



Adjusting detailed video parameters

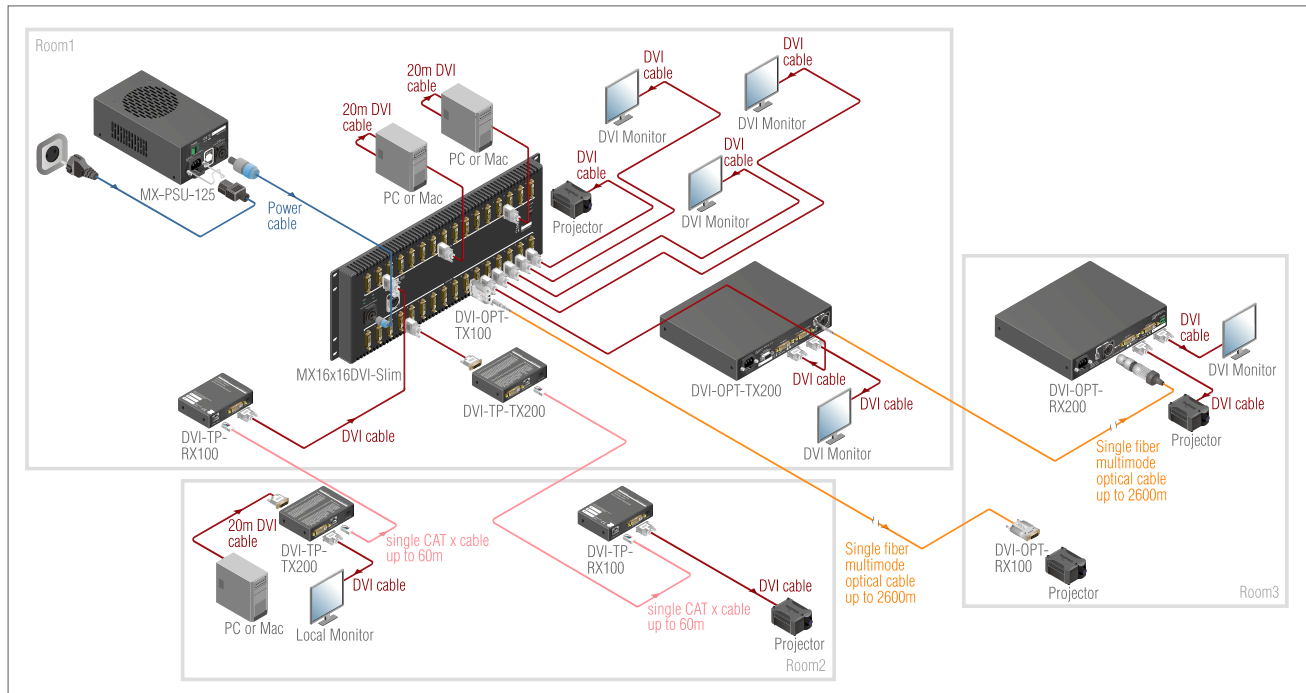


Audio channel setup



Drag and drop EDID emulating

## Typical Application

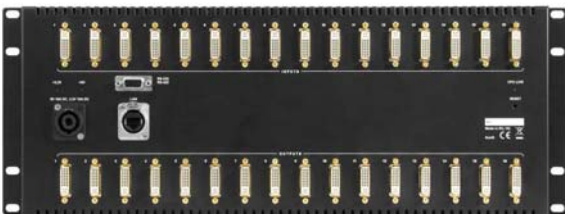


## Applications

- Multiroom video control
- Professional AV systems, conference rooms
- Medical Imaging
- Avionics
- Military

## Features

- Industry's smallest and lightest frame
- No switching latency – zero frame delay
- Routing 16x16 DVI 1.0 signals
- 1920x1200 or 2048x1080 maximal resolution
- Gold plated PCB boards and connectors
- Web page hosting capabilities
- Front panel buttons control
- Advanced EDID Management
- RS-232 or RS-422 and Ethernet Control
- Vista Spyder and Barco Encore compatibility



## Control

|                      |  |
|----------------------|--|
| Front panel buttons: | Yes  |
| RS-232 / RS-422:     | 9600 Baud Rx; Tx                               |
| LAN:                 | Ethernet 10Base-T or 100Base-TX (Auto-Sensing) |
| WEB:                 | built-in website                               |

## Specifications

|                           |   |
|---------------------------|---|
| Routing:                  | 16x16 non-blocking – any input to any output(s) |
| Bit rate:                 | 2.25 Gbit/s per color                           |
| Input cable equalization: | +12 dB  |
| Resolution:               | 640x480 to 1920x1200 or 2048x1080               |
| EDID Memory:              | 50 factory preset and 50 user programmable      |
| EDID Emulation:           | 256-byte extended EDID v1.3                     |
| Power:                    | 100 to 240 VAC                                  |
| Power consumption:        | 32 W (typical) 72W (max)*                       |
| Dimensions:               | 482W × 32,8D × 176,5H mm                        |
| Net weight:               | 1850 grams                                      |
| Warranty:                 | 3 years   |

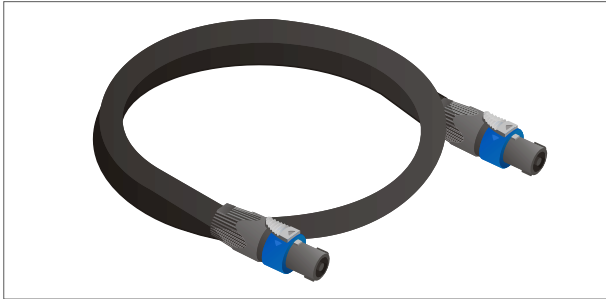
\*maximum power consumption, when all output ports are loaded with +500mA@5V active fiber converters.

## Connectors

|                  |                              |
|------------------|------------------------------|
| DVI:             | 29-pole DVI-I digital only   |
| RS-232 / RS-422: | 9-pole standard D-SUB female |
| Power:           | 4-pole Neutrik Speakon       |
| Ethernet:        | Neutrik Ethercon             |

## Supplied accessories

- Power cord
- MX-PSU-125 Power supply



## Power cord

|           |                       |
|-----------|-----------------------|
| Wire:     | 4 x 4 mm <sup>2</sup> |
| Diameter: | 14 mm                 |
| Length:   | 900 mm                |



## MX-PSU-125 Power supply

|               |  |
|---------------|--|
| Input:        | 90-240V AC, 50-60 Hz                     |
| Output:       | +3.3V DC 15A, +5V DC 10A                 |
| AC connector: | IEC connector with retention lock        |
| DC connector: | Twist and Lock Neutrik Speakon connector |
| Dimensions:   | 110W x 200D x 75H mm                     |
| Weight:       | 550 gramms                               |

## Optional accessories



## DVI-OPT-RX100 and DVI-OPT-TX100

Connector sized DVI over Multimode Fiber Extender.



## DVI-TP-TX200, DVI-TP-TX300 and DVI-TP-RX100

DVI signal extenders over single CAT5, CAT6 and CAT7 cable.



## EDID Manager

DVI EDID Emulator and cable extender.