

# HDMI 2.0 Matrix Switchers

with Huge Crosspoint Sizes

# MX2



16 × 16  
24 × 24



Lightware adds eight new devices to the **MX2 matrix switcher series in 2018**. The MX2 series is a **fully HDMI 2.0 compatible matrix** router line, with a maximum resolution of **4K UHD @ 60 Hz in 4:4:4** format, while also supporting **HDR, Dolby Vision, 3D, Dolby TrueHD** and **DTS-HD Master Audio**. The devices are **HDCP 2.2** and **HDCP 1.4** compliant with cross conversion capabilities, while device control can be achieved via **Ethernet, RS-232** and **USB** ports. The rich feature set of the routers also include **proprietary Lightware services and technologies**.

**HDMI 2.0**

**4K UHD @ 60 Hz in 4:4:4**

**HDR, Dolby Vision, 3D**

**HDCP 2.2 | HDCP 1.4**

**Ethernet | RS-232 | USB**

# Eight Variants

with **Various Add-ons**  
and **Enhancements**

MX2 matrix switchers are available with **16x16** and **24x24 crosspoint sizes**, with or without analog **audio add-ons**, and all four versions are also available with **redundant power sources**, paired with **rugged power connectors and reinforced control ports**. All models feature a **front panel, color LCD screen** with great visibility, and a **jog-dial, multi-function button**, enabling the users to manage every device feature and service directly.



MX2 Model Name	Full Set of Crosspoint Switch Buttons on Front	Analog Audio I/O Ports	Redundant Power and Reinforced Connectors
MX2-16x16-HDMI20	✓	×	×
MX2-24x24-HDMI20	✓	×	×
MX2-16x16-HDMI20-Audio	×	✓	×
MX2-24x24-HDMI20-Audio	×	✓	×
MX2-16x16-HDMI20-R	✓	×	✓
MX2-24x24-HDMI20-R	✓	×	✓
MX2-16x16-HDMI20-Audio-R	×	✓	✓
MX2-24x24-HDMI20-Audio-R	×	✓	✓

# Models with Direct Crosspoint Switch Buttons

Both 16x16 and 24x24 crosspoint models come with a full set of **front panel crosspoint buttons**, for easy direct switching in a dynamically changing environment.



MX2-16x16-HDMI20-Audio Back view



## Models with Analog Audio I/O Ports

The models with the analog **audio input and output ports** have **5-pole Phoenix connectors for audio embedding and de-embedding**. The 16x16 unit has 4x4 I/O audio ports plus another 4x audio output ports which can be freely assigned to any output HDMI signals. The 24x24 device versions have 8x8 I/O audio ports. Although the models with the analog audio add-on lack the front panel direct crosspoint switch keys, all crosspoint changing functions are still available by using the jog-dial button next to the LCD display, the open API or the web-based control software.

MX2-24x24-HDMI20-Audio Back view





# R Type Variants

## Redundant – Robust – Rental

All product versions also feature models with **two independent power sources with separate mains connectors**. The power connector, the RS-232 and Ethernet connectors are all reinforced, rugged types, especially fitting rental and staging purposes, where wear and tear effects are more regular in everyday use.



Neutrik Ethercon












Neutrik Powercon True1



D-Sub RS-232

# Recommended Application Areas

MX2 Model Name	Recommended Application Areas		
MX2-16x16-HDMI20	 <b>Rental &amp; Staging</b> Live events, Projection mapping, etc.	   	<b>Oil &amp; Gas</b>
MX2-24x24-HDMI20			<b>Government</b>
MX2-16x16-HDMI20-Audio	 <b>Corporate Boardrooms and Meeting Spaces</b>		<b>Military</b>
MX2-24x24-HDMI20-Audio			<b>Medical</b> <b>Command &amp; Control Applications</b> (e.g. operating theaters)
MX2-16x16-HDMI20-R	 		
MX2-24x24-HDMI20-R			<b>Rental &amp; Staging</b> live events, projection mapping, etc.
MX2-16x16-HDMI20-Audio-R			<b>Command &amp; Control applications</b> (e.g. operating theaters)
MX2-24x24-HDMI20-Audio-R			Any application area with elevated level of operation stress

# First Compact **HDMI 2.0** Standalone Matrix with **24x24 Crosspoint**

While the 16x16 sized matrix satisfies a standard crosspoint size expectation, the **24x24 size crosspoint introduces a new dimension** among standalone matrix routers. Choose the size best fitting your application. As these devices are compact built standalone switchers, they are designed to provide true HDMI 2.0 compliance in a mere **3U and a 4U sized chassis** respectively, which is substantially smaller than comparable, typically modular build matrix switchers on the market. Their small size factor makes these routers, especially their audio add-on models, **excellent choices for rack-mounted, fixed installations** as well. This is furthermore supported by their **rack-conform, front-to-back, efficient cooling** air trail design.



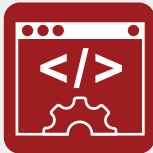
# Built-in, Proprietary Lightware **Services** and **Technology**

As always, we deliver these matrix switchers also with **proprietary services and technologies built-in** at no extra costs, helping installation and operation.



## **Analytics and Diagnostics**

**Cable diagnostics and a built-in video frame detector** provide feedback about the exact **pixel count and clock frequency**.



## **Open API**

**Open-source API** technology at the core makes these Lightware products **easy to integrate into third party systems**.



## **Convenient Adjustments and Updates**

Device configuration can be adjusted via the **built-in website**, and firmware update is available through Ethernet.

The new, truly HDMI 2.0 compatible MX2 series matrix routers will help you **save on costs, rack space and installation time**, offering **Lightware quality and long-time reliability out of the box**. With a **three-year manufacturer's warranty** and probably the best support services in the AV industry MX2 switchers are the excellent choice for AV professionals.

**Inquire about the availability of our new MX2 series matrix switchers today.**