

# MX2-24x24-HDMI20-Audio

## Full 4K HDMI 2.0 Matrix Switcher



The MX2-24x24-HDMI20-Audio is a member of the Lightware HDMI 2.0 standalone matrix switcher family that supports uncompromised 4K UHD resolution at 60Hz 4:4:4 and allows de-embedding audio from and embedding audio to the HDMI stream.

It has an outstanding number of input and output ports resulting in a port density that makes it particularly suitable for fix-install applications and for future-proof operation centers. It is a perfect choice for installations where a huge number of HDMI 2.0 compliant input and output ports are required along with audio inputs and outputs.

### Highlight features

- HDMI 2.0, HDMI 1.x and DVI 1.0 compliant
- Supports conversion from 4K UHD at 60Hz 4:4:4 to 4K UHD at 60 Hz YCbCr 4:2:2
- 4k@60Hz with RGB 4:4:4 color space, 18 Gbps bandwidth
- HDCP 2.2 and HDCP 1.4 compliant with cross conversion capabilities
- Fully non-blocking switching architecture with zero frame delay
- Pixel Accurate Reclocking on each input
- Advanced EDID Management
- Built-in website
- RS-232, Ethernet and USB control options
- LCD and rotary switch for front panel control
- Front to back cooling airflow
- HDR10 and Dolby Vision support
- Optional redundant power supply with 1:1 redundancy
- Analog audio embedding and de-embedding and digital-to-analog conversion of stereo LPCM

This standalone product has 24 HDMI 2.0 inputs and 24 HDMI 2.0 outputs, transmitting up to 4K at 60Hz in 4:4:4 format, while supporting 3D, Dolby TrueHD and DTS-HD Master Audio. Eight of its input ports have audio connectors for embedding analog stereo audio into the HDMI stream, while the audio connectors next to eight output ports can provide de-embedded stereo LPCM audio for amplifiers and audio systems.

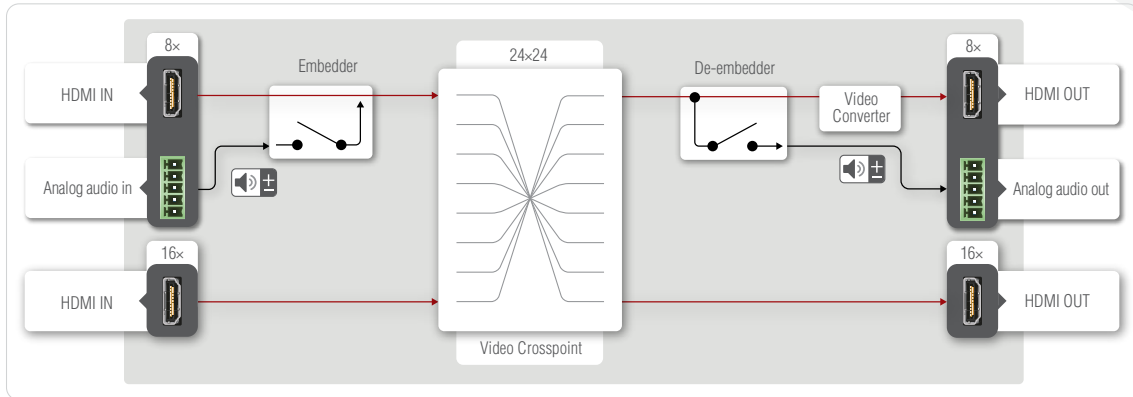
### Specification

Routing	24 input to 24 output, non-blocking architecture
Speed	18 Gbps per port
Resolution	Up to 4096x2160@60Hz at RGB or YCbCr 4:4:4 (up to 600MHz pixel clock)
Height	4RU
Mounting	Rack mountable, removable rack ears

### Connectors

Power	IEC standard, 110/220V (one for normal build, two for optional redundancy)
Video inputs	24x 19-pole HDMI 2.0
Video outputs	24x 19-pole HDMI 2.0
Audio inputs	8x Stereo balanced, 5-pole Phoenix
Audio outputs	8x Stereo balanced, 5-pole Phoenix
Serial control	3-pole Phoenix
Ethernet	RJ45
USB	Mini USB B

## Port diagram



Please see the below table for the comparison of the HDMI 2.0 MX2 matrix switcher series:

Product	Inputs			Outputs			Front panel I/O buttons	Front panel LCD menu	Redundant power supply
	HDMI	DP	Audio	HDMI	DP	Audio			
MX2-16x16-HDMI20	16x	×	×	16x	×	×	✓	✓	×
MX2-24x24-HDMI20	24x	×	×	24x	×	×	✓	✓	×
MX2-16x16-HDMI20-Audio	16x	×	4x	16x	×	4xH+4xA	×	✓	×
MX2-24x24-HDMI20-Audio	24x	×	8x	24x	×	8x	×	✓	×
MX2-16x16-HDMI20-R	16x	×	×	16x	×	×	✓	✓	✓ (PowerCON)
MX2-24x24-HDMI20-R	24x	×	×	24x	×	×	✓	✓	✓ (PowerCON)
MX2-16x8-HDMI20-Audio-R	16x	×	4x	8x	×	4xH+4xA	×	✓	✓ (PowerCON)
MX2-16x16-HDMI20-Audio-R	16x	×	4x	16x	×	4xH+4xA	×	✓	✓ (PowerCON)
MX2-24x24-HDMI20-Audio-R	24x	×	8x	24x	×	8x	×	✓	✓ (PowerCON)
MX2-32x32-HDMI20-A-R	32x	×	16xH	32x	×	8xH+8xA	✓	✓	✓ (PowerCON)
MX2-48x48-HDMI20-A-R	48x	×	16xH	48x	×	16xH	✓	✓	✓ (PowerCON)

H: next to HDMI

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A: independent audio out