

Full 4K Matrix Switcher with 32x32 HDMI 2.0 I/O Ports



MX2-32x32-HDMI20-A-R is a member of the Lightware MX2 standalone matrix switcher series supporting uncompromised 4K UHD resolution at 60Hz with RGB 4:4:4 colorspace and with down-conversion capabilities to 4:2:0. These routers are fully HDMI 2.0 compatible. The switchers have outstanding port density making them particularly suitable for fix-install applications and for future-proof operation centers alike: for installations where a huge number of HDMI 2.0 compliant input and output ports are required.

This standalone product has 32x32 HDMI 2.0 I/O ports, supporting 3D, Dolby TrueHD and DTS-HD Master Audio and also HDR and Dolby Vision. Proprietary Lightware technologies like Pixel Accurate Reclocking and Advanced EDID Management are included and can be controlled via the built-in website.

MX2-32x32-HDMI20-A-R is an audio enhanced variant allowing embedding audio to, and de-embedding audio from the HDMI stream at dedicated analog audio I/O ports. In lack of the direct selection buttons on the front panel, all crosspoint switching functions are available via the rotary jog dial button and the color display on the front panel.

This matrix switcher is R Type version with redundant and reinforced AC mains connectors, rugged RS-232 and Ethernet ports, designed for high operation stress environments.

Specification

Speed	18 Gbps per port
Resolution	Up to 4096x2160@60Hz at RGB or YCbCr 4:4:4 (up to 600MHz pixel clock)
Dimensions	8RU height, 442 W x 277.5 D x 355.6 H mm
Mounting	Rack mountable, removable rack ears

Features

- 4K@60Hz with RGB 4:4:4 color space, 18 Gbps bandwidth
- HDMI 2.0, HDMI1.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
- 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, push buttons and rotary switch for front panel control
- Front to back cooling airflow
- HDR and Dolby Vision support
- Analog audio embedding and de-embedding and digital-to-analog conversion of stereo LPCM
- Redundant power supply with rugged AC mains connector and control ports

Connectors

Power	2x Neutrik Powercon True1, 110/220V V
Video inputs	32 x HDMI 2.0
Video outputs	32 x HDMI 2.0
Audio inputs	16x Phoenix
Audio outputs	16x Phoenix
Serial control	D-sub 9-pole
Ethernet	Ethercon
USB	Mini USB B

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