

MX-H2-0404-10

4x4 HDMI 2.0 18Gbps Matrix Switcher with Audio De-Embedding & Output Scaling



> Product Description

The Netvio MX-H2-0404-10 is a 4x4 HDMI 2.0 Matrix Switcher designed for professional AV distribution across corporate, education, broadcast, and residential environments. With 18Gbps HDMI 2.0b bandwidth and full HDCP 2.2/1.4 compliance, it routes up to four HDMI sources to four independent displays, delivering uncompromised 4K60 4:4:4 HDR performance.

Each output can be individually downscaled to 1080p, ensuring seamless compatibility in mixed display systems. Integrated audio de-embedding provides analog stereo and coaxial digital outputs, while ARC support enables display audio return via coaxial. Advanced EDID management guarantees reliable operation across diverse sources and displays.

Control is simple via front panel, IR, RS-232, or built-in TCP/IP web interface, while end-users benefit from license-inclusive NetvioGo for intuitive switching functionality on iOS and Android devices.

> Product Features

- 4x4 HDMI 2.0 Matrix Switching – Route any of four HDMI sources to any of four displays.
- True 4K60 UHD Performance – 18Gbps bandwidth, 4:4:4 color, HDR10, HDR10+, Dolby Vision, and HLG support.
- Independent Output Scaling – Downscale 4K to 1080p per output for mixed-display compatibility.
- Audio De-Embedding – Extract HDMI audio to both analog stereo (L/R) and coaxial digital outputs.
- ARC Support – Return display audio to coaxial outputs for flexible audio integration.
- Advanced EDID Management – Preset, copy, and user-defined EDID options for system reliability.
- Flexible Control Options – Front panel buttons, IR remote, RS-232, and built-in TCP/IP web GUI.
- License-Inclusive NetvioGo – Free iOS/Android app for intuitive end-user source switching.

> What's Included

- 1x MX-H2-0404-10 HDMI 4x4 Matrix Switcher
- 1x 12V/2.5A Locking Power Adapter
- 1x IR Remote Control
- 1x 38KHz IR Receiver Cable (1.5m)
- 1x 3-pin Phoenix Connector (for RS-232)
- 2x Rack Mounting Ears with Screws
- 1x User Information

> Specifications

Video

- HDMI Compliance: HDMI 2.0b
- HDCP: 2.2 / 1.4
- Bandwidth: 18Gbps
- Resolutions: Up to 3840×2160 @60Hz 4:4:4, all HDMI 3D TV formats, PC up to 1920×1200
- Color Depth: 8/10/12-bit (4K30, 1080p); 8-bit (4K60 4:4:4)
- Color Space: RGB, YCbCr 4:4:4, 4:2:2, 4:2:0
- HDR Support: HDR10, HDR10+, Dolby Vision, HLG
- Output Scaling: 4K to 1080p

Audio

- HDMI Audio: PCM 2.0/5.1/7.1, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-HD, DSD
- Coaxial: PCM 2.0, Dolby Digital/Plus, DTS 2.0/5.1
- Analog: Stereo PCM 2.0

Inputs / Outputs

- 4× HDMI Inputs
- 4× HDMI Outputs
- 4× L/R Stereo Mini-jack Outputs
- 4× Coaxial RCA Outputs

Control

- Front Panel, IR Remote, RS-232 (3-pin Phoenix), TCP/IP Web GUI

Mechanical

- Dimensions: 220mm (W) × 105mm (D) × 44mm (H)
- (8.66" × 4.13" × 1.73")
- Weight: 792g (1.74 lbs)
- Housing: Metal enclosure

Environmental

- Operating Temperature: 0–40°C
- Storage Temperature: –20–60°C
- Humidity: 20–90% RH (non-condensing)

Power

- Supply: DC 12V/2.5A (locking connector)
- Consumption: 10W (max), 1.56W (standby)

> Connectivity

Inputs

- 4× HDMI Type-A (female) – Video/Audio Inputs

Outputs

- 4× HDMI Type-A (female) – Video/Audio Outputs
- 4× Analog Stereo L/R (3.5mm mini-jack) – Audio Outputs
- 4× Coaxial (RCA) – Digital Audio Outputs

Control

- 1× TCP/IP (RJ45) – Web GUI / Network Control
- 1× RS-232 (3-pin Phoenix) – Serial Control
- 1× IR Extender Port (3.5mm)
- Front Panel Button Controls
- IR Remote Control
- NetvioGo app (license-inclusive, iOS/Android)

Power

- 1× DC 12V Locking Connector (12V/2.5A)

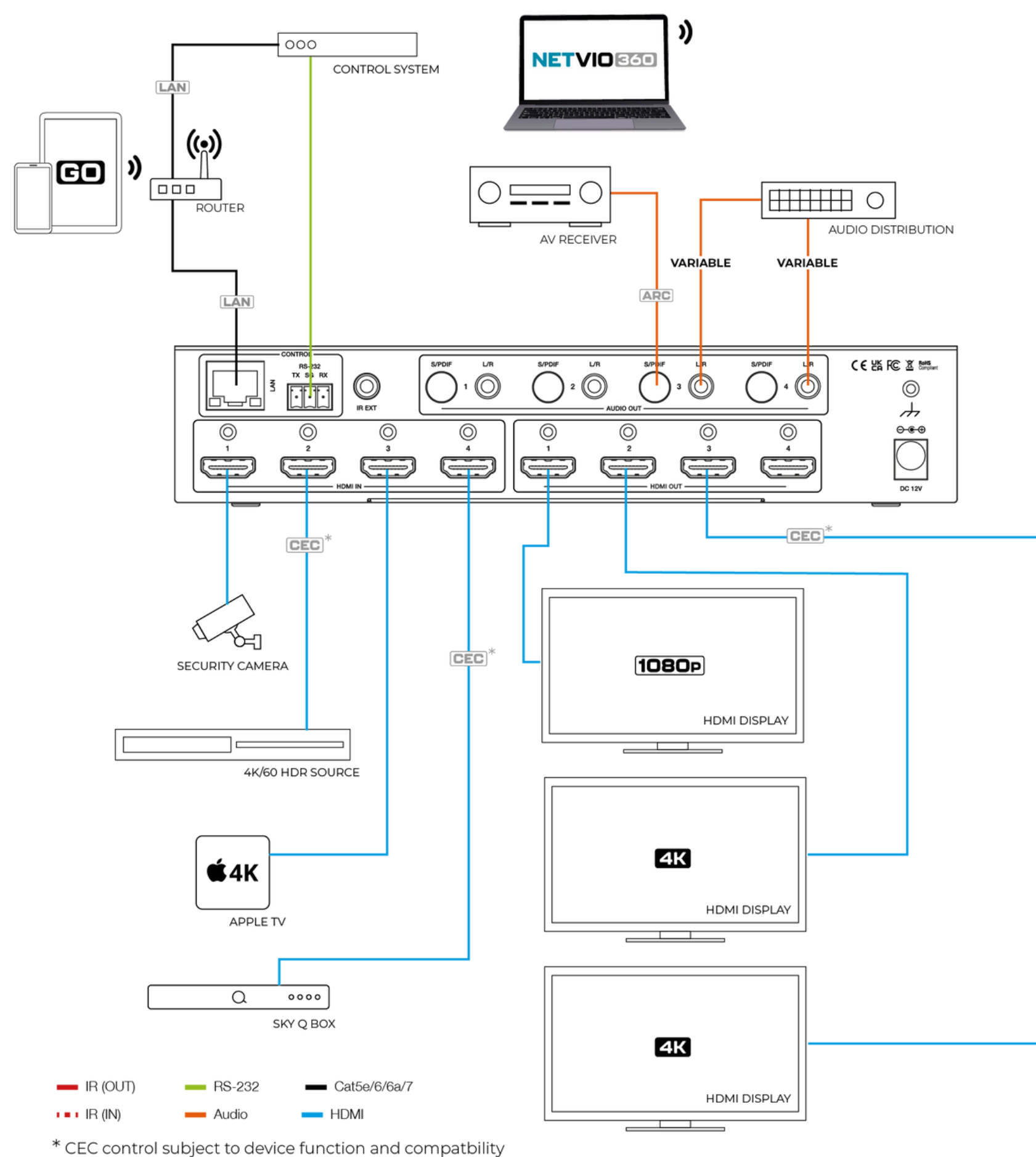
> Integrations

- NetvioGO End-User Application (Free)
- NetvioGo integrations including Blaze, LEA, Powersoft, Symetrix, Cloud, Yamaha, plus many other AV devices.
- Control System Drivers including Crestron, Q-SYS, Control4, RTI, Elan

> Included Software & Apps

- Configuration & Control utility
- Netvio360, AppBuilder & NetvioGo when used with JP4 Series AVoIP solutions.

> Wiring Diagram



> A&E (Architects & Engineers) Description

The unit shall be a Netvio MX-H2-0404-10 4x4 HDMI 2.0 Matrix Switcher capable of routing any of four HDMI inputs to any of four HDMI outputs. The device shall support video resolutions up to 3840x2160 @60Hz 4:4:4 with 18Gbps bandwidth, and shall be compliant with HDMI 2.0b and HDCP 2.2/1.4.

Each output shall support independent downscaling from 4K to 1080p to ensure compatibility with mixed display environments. The unit shall support HDR10, HDR10+, Dolby Vision, and HLG formats.

Audio de-embedding shall be provided via analog stereo mini-jack outputs and coaxial digital RCA outputs. The device shall also support ARC (Audio Return Channel) to the coaxial digital outputs.

The unit shall support advanced EDID management, including preset, user, and copy modes. Control options shall include front panel buttons, IR remote, RS-232, TCP/IP with web GUI, and license-inclusive NetvioGo app (iOS/Android).

The device shall be housed in a metal enclosure, with dimensions of 220mm (W) x 105mm (D) x 44mm (H) [8.66" x 4.13" x 1.73"] and weight of 792g (1.74 lbs). The power supply shall be 12V DC / 2.5A via locking connector.