

4x4 4K60 HDMI Matrix Switcher

HX44NEO



DESCRIPTION

HX44NEO 4x4 HDMI Matrix Switcher is a high-performance AV signal management device designed for modern multimedia environments. It supports the transmission of video up to 4K@60Hz (RGB/YCbCr 4:4:4) and multi-channel Hi-Res digital audio from 4 HDMI sources to 4 HDMI displays. Compliant with HDMI 2.0b and HDCP 2.2 standards, the device supports high-definition audio formats such as LPCM 7.1ch, Dolby TrueHD, and DTS-HD Master Audio, and features Audio Breakout functionality, allowing HDMI audio to be extracted and output via coaxial or analog audio ports.

HX44NEO supports fast switching, video scaling (4K to 2K), built-in equalization, signal shaping, and driving functions, ensuring stable and high-quality signal transmission. Equipped with intelligent EDID management, users can copy EDID from any output or set customized EDID to ensure signal compatibility, avoiding display issues caused by EDID mismatches. Additionally, the device supports ARC (Audio Return Channel) functionality, allowing audio from display devices to be sent back to the matrix, further simplifying audio system integration. Users can easily control and configure the device via TCP/IP, RS-232 serial commands, Web GUI, front panel buttons, and IR remote, making it ideal for meeting rooms, command & control centers, multimedia showrooms, and more.

PRODUCT FEATURES

- | **High-Definition Video Transmission:** Supports 4K@60Hz (RGB/YCbCr 4:4:4) video resolution, compliant with HDMI 2.0b and HDCP 2.2 standards
- | **Multi-Channel Audio Support:** Supports high-definition audio formats such as LPCM 7.1ch, Dolby TrueHD, and DTS-HD Master Audio
- | **Audio Breakout Functionality:** Extracts HDMI audio and outputs via coaxial or analog audio ports
- | **Intelligent EDID Management:** Users can copy EDID from any output or set customized EDID to ensure signal compatibility
- | **ARC Functionality:** Supports Audio Return Channel, simplifying audio system integration
- | **Fast Switching & Video Scaling:** Supports fast switching and 4K to 2K video scaling
- | **Signal Enhancement Technology:** Built-in equalization, signal shaping, and driving functions ensure stable signal transmission
- | **Multiple Control Options:** Control via TCP/IP, RS-232 serial commands, Web GUI, front panel buttons, and IR remote

SPECIFICATION

	Technical
HDMI Compatibility	HDMI 2.0b
HDCP Compatibility	HDCP 2.2/1.4
Video Bandwidth	18 Gbps
Resolution	Up to 4K2K 50/60Hz 4:4:4
3D	Support
Scaling Output	Support, 4K→1080p
Color Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8-bit,10-bit,12-bit
HDR	Supports HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio Format (Pass-Through)	LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus, Dolby True HD, Dolby Atmos DTS 5.1, DTS-HD Master Audio, DTS:X
Coaxial Audio Format	LPCM 2.0CH, Dolby Digital / Plus, DTS 5.1
L/R Audio Format	PCM 2.0CH
ESD Protection	Human Body Model: ±8kV (air discharge), ±4kV (contact discharge)
Input Ports	4x HDMI IN [Type A, 19-pin female]
Output Ports	4x HDMI OUT [Type A, 19-pin female],4x COAX audio out[RCA],4x L/R audio out[3.5mm Stereo Mini-Jack]
Control Ports	1x TCP/IP [RJ45], 1x RS-232 [9-pin D-Sub], 1x IR EXT [3.5mm Stereo Mini-Jack]
Enclosure	Metal Casing
Color	Black
Dimensions	220mm x 105mm x 44mm (WxDxH)
Weight	792g
Power Supply	Input: AC100~240V 50/60Hz; Output: DC12V/2.5A
Power Consumption	10W
Operation Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Relative Humidity	20% ~ 90% (non-condensing)