

## Ultra-Fast 4x2 HDMI Matrix Switcher with Audio Extraction 4K/60Hz

This HDMI Matrix can connect up to 4 HD Sources to 2 HDMI Displays featuring stereo headphone and Toslink optical audio outputs, it allows four HDMI devices to be switched or split easily to two HDMI compatible monitors or projectors while also connecting to a stand-alone audio amplifier system. Ideal solution for home theater, office, school, conference room, retail, or hospitality applications.

**MPN: HDMX42A-18G**



The **KanexPro HDMX42A-18G** is an easy to use, cost-effective 4K/60Hz with 4:4:4, 16-bit Deep Color, HDR (High Dynamic Range) and HD audio formats. Designed with 4-inputs and 2-outputs the matrix can extract the audio from any of the sources and outputs via optical Toslink or analog 2 Channel audio formats. The powerful matrix can downscale 4K sources to 1080p displays allowing for the unit to be integrated in mixed 4K and 1080p systems with no loss of quality to the 4K display. The HDMX42A-18G is ideal for swift switching and routing of any HDMI sources such as laptops, Blu-ray players, and 4K based Apple TV to any four displays. This matrix switcher is HDCP 2.2 compliant and supports 4K@60Hz, 4:4:4 video. It can be controlled via front panel buttons, IR remote.

### Industry Standard HDCP 2.2 & 4K/60

HDCP 2.2 authentication is present always on this matrix ensuring proper handshake of the protected content. It also maintains resolutions up to 4K-4096x2160@24, 30, 50 or 60Hz, 3840x2160@24, 25,30, 50 or 60Hz and 2560x1080@60Hz displaying 21:9 aspect ratios. 1920 x 1200 or full HD 1080p/60 is a standard for all our matrix switchers.

### Applications:

This HDMI Matrixes can connect multiple sources to multiple displays. The HDMX42A-18G features an analog stereo headphone output jack and a Toslink optical audio output which allows, in this case, four HDMI devices to be switched or split easily to two HDMI compatible displays or projectors while also connecting to a stand-alone audio amplifier system. Ideal solution for home theater, office, school, conference room, retail, or hospitality applications.

## PROFESSIONAL PERFORMANCE

Built to commercial standards, KanexPro products offer premium features like locking power connectors, metal enclosures, and passive cooling designs which are a must for long term reliable and stable installations.

- Home Theater installations:** Share four video sources with a TV in the living room and another TV in a second room, while utilizing a Home theater system in the living room.
- Conference Room Environments:** Switch between users and screens in a conference room while utilizing a central audio system.
- Reduce Complexity:** A matrix is a combined switcher and splitter reducing the complexity and the number of cables and components needed for a system with multiple displays and sources.

## FEATURES

- Supports four (4) HDMI 2.0A (18Gbps) HDMI 4 input into 2 output Matrix Switcher - Supports highest video resolution up to 4K x 2K at 60Hz, EDID bypass, Full 3D and HDCP2.2 complaint.
- Analog and digital audio de-embedding
- ARC de-embedding from output 1 or output 2
- 4x2 Matrix: Independently view any of the four sources on any of the four displays.
- Supports PCM, Dolby True HD, DTS-HD Master Audio up to 7.1 Ch. Digital and analog Audio output.
- Supports 18Gbps uncompressed bandwidth on all HDMI
- Supports source audio extraction via optical Toslink or analog L/R outputs.
- Supports 4K to 1080p downscaling on both outputs

## SPECIFICATIONS

### TECHNICAL

<b>HDMI Compliance</b>	HDMI 2.0
<b>HDCP Compliance</b>	HDCP 2.2 and HDCP 1.4
<b>Video Bandwidth</b>	18 Gbps
<b>Video Resolution</b>	Up to 4K2K@50/60Hz(YCbCr 4:4:4),4K2K@30Hz.All HDMI 3D TV format, etc.
<b>Color Space</b>	RGB, YCbCr4:4:4,YCbCr4:2:2, YCbCr 4:2:0
<b>Color Depth</b>	8-bit, 10-bit, 12-bit [1080P, 4K30Hz, 4K60Hz (YCbCr 4:2:0)] 8-bit [4K60Hz (YCbCr4:4:4)]
<b>HDMI Audio Formats</b>	PCM2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX,DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
<b>Optical Audio Formats</b>	PCM2.0, Dolby Digital / Plus, DTS
<b>L/R Audio Formats</b>	PCM2.0CH (Note: If ARC function is turned on, the audio port will mute.)
<b>ESD Protection</b>	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)

### CONNECTIONS

<b>Input Ports</b>	4xHDMI Type A [19-pin female]
<b>Output Ports</b>	2xHDMI Type A [19-pin female] 1xL/R audio out [3.5mm Stereo Mini-jack] 1xOPTICAL audio out [S/PDIF]

### MECHANICAL

<b>Housing</b>	Metal Enclosure
<b>Color</b>	Black
<b>Dimensions</b>	251mm(W)x105mm(D)x20mm(H)
<b>Weight</b>	620g
<b>Power Supply</b>	Input: AC100-240V 50/60Hz Output: DC12V/1A
<b>Power Consumption</b>	3.8W (max)
<b>Operating Temperature</b>	0°C - 40°C / 32°F - 104°F
<b>Storage Temperature</b>	-20°C - 60°C / -4°F - 140°F
<b>Relative Humidity</b>	20-90% RH (non-condensing)

# APPLICATION DIAGRAM

