KanexPro®

4x4 HDMI 2.0 Matrix Switcher with Audio Out

Connect up to four HDMI enabled sources to four separate displays with this professional Ultra High Definition video matrixing system featuring the added benefit of extracting analog audio from each output.

MPN: HDMX44A-18G

The KanexPro HDMX44A-18G is a professional 4-in and 4-out HDMI matrix featuring HDCP 2.2 and the latest HDMI 2.0 specifications supporting ultra HD resolutions up to 4K @60Hz. Each HDMI port provisions full bandwidth of 18 Gbps with HDR and Dolby Vision pass-through. It can be fully controlled via RS-232, IR and Web based GUI using Ethernet where end-users can switch, control and manage the matrix right from the computer or any 3rd party touch-panel or a control system.

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:

Perfect for whole house distribution systems and house of worship centers as well as corporate boardrooms where swift, reliable switching and distribution of both 4K/60 HDMI signals and external audio are critical to meet pixel-by-pixel needs with HDR.

MAXIMUM PERFORMANCE

Built to the HDMI 2.0 performance standards, this professional matrix is capable if the highest resolutions and performance currently supported through HDMI standards. Features like resolutions up to 4K (3840x2160p @60Hz). Video modes like Deep Color, HDR 10+, Dolby Vision, and other high dynamic viewing modes. As well as digital multichannel audio like Dolby Atmos, Dolby TrueHD™, DTS:X™, and DTS: HD Master Audio™.

1. **Residential or Commercial AV Matrix installations:** Share up to four video sources across four different areas or spaces. Allowing for each zone to support its own dedicated audio system, this professional Matrix allows for users to share a single set of sources and share them easily across the different rooms or offices.
2. **Security Systems:** Connect DVR or NVRs and have them distributed across the building or office. The matrix allows for any of the recorders to be shown on only some or all of the connected displays. The matrix system allows for various monitoring options which can be programmed and controlled via RS232 commands.
3. **Lecture Halls and Ballrooms:** Configure and control presentations or videos from speakers or DJ's and distribute them to projectors or displays making for engaging visuals and interactions.
4. **Retail Spaces and Restaurants:** Share multiple sets of signage, menus, or marketing copy and distribute them across the sales floor or merchandizing space.
5. **Full Matrix Solution:** A video matrix is a powerful tool which allows for precise control of video sources and displays. The matrix functions can send any of the sources to one or many of the displays that are connected, in any order with no limitations. Using a matrix cuts down on the number of sources, (media players, servers, DVR's, or set top boxes) and helps distribute them quickly and easily.

FEATURES

- HDMI inputs and outputs support 18Gbps 4K UHD+ with HDR signals
- DVI 1.0 compliant with the use of an HDMI to DVI adapter
- HDCP 1.x and 2.2 compliant
- HDMI inputs and outputs support UHD+ resolutions up to
- 4096x2160@60Hz (4:4:4, 8-bit)
- Supports 16-bit Deep Color up to 1080p60
- Supports pass-through of LPCM (up to 8 channels), bitstream and HD bitstream audio formats
- High-quality DAC (Digital to Analog audio Conversion) with local analog stereo audio breakout for each HDMI output (LPCM 2.0 sources only)
- Supports six internal EDIDs, four external EDIDs copied from connected devices, and four user provided EDIDs
- OSD with user customizable information text
- Controllable via front-panel buttons with LCD, WebGUI, Telnet, RS-232, and IR remote

SPECIFICATIONS

TECHNICAL SPECIFICATIONS

HDMI Bandwidth: 18Gbps	**ESD Protection:** (HBM) 38kV (Air Discharge)
Input Ports: 4 x HDMI (Type-A)	34kV (Contact Discharge)
Output Ports: 4 x HDMI (Type-A)	**Dimensions (WxHxD):** 438mmx49mmx269mm [Case Only]
4 x Analog Stereo (3.5mm)	482mmx49mmx274mm [All Inclusive]
Control Ports: 1 x RS-232 (DE-9)	**Weight:** 2.99kg
1 x Ethernet (RJ-45)	**Chassis Material:** Metal (Steel)
1 x IR Extender (3.5mm)	**Chassis Color:** Black
Service Port: 1 x USB 2.0 (Type A)	**Operating Temperature:** 0˚C – 40˚C/32˚F – 104˚F
IR Frequency: 38kHz	**Storage Temperature:** -20˚C – 60˚C/-4˚F – 140˚F
Baud Rate: 19200	**Relative Humidity:** 20 – 90% RH (Non-condensing)
Power Supply: 24V/2.7A DC	**Power Consumption:** 34W
(US/EU standards, CE/FCC/UL certified)	

ANALOG OUTPUT

Max Audio Level: 2Vrms	**Impedance:** 470Ω
THD+N: < -60dB@0dBFS 1kHz (A-wt)	**Type:** Unbalanced
SNR: > 70dB@0dBFS	
Frequency Response: < 33dB@20Hz-20kHz	
Crosstalk: < -60dB@10kHz	

HDMI INPUT / OUTPUT

LPCM
Max Channels: 8 Channels
Sampling Rate: 32, 44.1, 48, 88.2, 96, 176.4, 192
Bitstream
Supported Formats: Standard & High-Definition

APPLICATION DIAGRAM

Blu-ray Player

Amplifier

4K TV

Amplifier

4K TV

Speakers

Speakers

4K TV

4K TV

Power Supply