



4x4 4K UHD HDMI Video Wall Processor Matrix

KD-VW4x4ProK

SKU: 178893 UPC: 81599602222

Key Digital's KD-VW4x4ProK is a 4 HDMI input with 4 HDMI + 4 UHDoTP mirrored output video wall processor and seamless matrix switcher with independent audio routing. KD-VW4x4ProK is perfect for video wall and large format viewing applications like Bar & Restaurant, Sports & Gaming Caves, Digital Signage, House of Worship, Entertainment Centers, Museums, E-Sports, and more. KD-VW4x4ProK has been specially engineered to cost-effectively create video walls with consumer panels and monitors.

The Panel Flip feature rotates the image 180 degrees on the desired outputs, enabling the top row of monitors to be installed upside down, conjoining the narrow frame sides of the displays. Bezel Compensation allows the image to be extended off the screen to create fluid screen transition and five supported video wall layouts (2x2, 4x1, 3x1, 2 mirrored sets of 2x1, and 1x4) make KD-VW4x4ProK the ideal choice to build video walls in any application and price point. Mirrored HDMI and CAT6 AV outputs enable up to eight connected displays via the four included Rx units- Ideal for dual video walls showing the same thing at the same time.

Alternatively, KD-VW4x4ProK may be used as a 4x4 video matrix so users may view their four connected video sources on their four/eight connected displays. Source selection in video wall or matrix modes is completely seamless and 4K down-conversion features enable integration with legacy 720p and 1080p displays for further savings by the end-user. 4K / UHD content up to 3840 x 2160p 4:2:0 at 60fps is supported, as well as independent audio routing with deembedding on analog balanced/un-balanced and digital optical connections and surround formats up to 5.1 Dolby® / DTS™. Audio from any source may be selected while in video wall mode. KD-VW4x4ProK joins a suite of Key Digital IP enabled products that are Web UI and iOS app ready.

Features

- **Video Wall Processing:** Transform consumer and professional displays into a video wall with five video wall modes: 2x2, 4x1, 3x1, 2 sets of 2x1, 1x4
- **Seamless Switching:** Un-interrupted screen transitions during source selection
- **Built-In UHDoTP Tx with PoC:** 4 included KD-EXMLVRx units are powered by KD-VW4x4ProK
- **Dual Video Wall / Mirrored Outputs:** Simultaneously active HDMI + UHDoTP connections per output show same AV signal at same time for a total of 8 possible displays connected
- **Video Resolution:** Up to 3840 x 2160p 4:2:0 at 60fps supported on inputs & 3840 x 2160p 4:4:4 at 30fps supported on outputs
- **Panel Flip:** Enables use of consumer displays by mounting top row upside down and conjoining narrow frame sides.
- **Bezel Compensation:** Create a fluid screen transition by removing pixels from top, bottom, left and right border independently
- **Signal Extension over CAT:** 4K/UHD Up to 35m (115ft) using CAT5e/6, up to 40m (131ft) using CAT6A STP, 1080p Up to 50m (164ft) using CAT5e/6, up to 60m (197ft) using CAT6A STP
- **Text Overlay:** Assigned name of each source may be displayed in each window. 16 Characters maximum with variable sizing and location settings.
- **4K Down-Convert:** Integrate 4K sources with legacy 1080p & 720p displays
- **Built-In Test Patterns:** 9 selectable test screens help expedite installation
- **IR Extension:** Extend IR via Rx units to control displays or collect IR from remote to control a source at matrix
- **Web UI:** Control AV routing and other basic functions from any web browser

- **Audio De-Embed:** 6 pin balanced / un-balanced and digital optical outputs
- **Dolby Digital & DTS Audio:** Supports 2-channel and multi-channel surround formats up to 5.1 Dolby / DTS
- **Control:** Front panel buttons, IR, RS-232, TCP-IP and Web Control
- **Key Digital App Ready:** Can be controlled over TCP/IP via Key Digital App
- **Control System Support:** Key Digital app ready. Key Digital Management Software Pro (KDMS Pro) ready, Compass Control Pro ready. Fully controllable by all IR, RS-232, and TCP/IP supported control systems via open API.

Input (Each)	1 HDMI Connector, Type A, 19 Pin Female
Output (Each)	1 HDMI Connector, Type A, 19 Pin Female
Output (Each)	Balanced/unbalanced line level audio on 6-pin terminal block. Drives 2VRMS line audio input with a sampling rate of 192KHz
Output (each)	TOSlink optical digital audio following SPDIF format (IEC 60958). Supports sampling rate up to 192KHz
Video Bandwidth	TMDS bandwidth 10.2 Gbps
DDC Signal (Data)	Input DDC Signal - 5 Volts p-p (TTL)
HDMI Video/Audio Signal	Input Video Signal - 1.2 Volts p-p
DDC Communication	EDID and HDCP Bi-directional buffering to Display and Source
Analog Audio Max Output Level	4dBu on 150k Ω , DC coupling
Audio Bandwidth	20Hz to 20kHz @ 0dBu
TND + Noise	0.33% @0dBu @ 1kHz
Optical Max Output Level	1Vpp on 75 Ω , DC coupling
Wired IR	modulated IR signal input, 0-5V TTL or -10 to +10V
Power	12V/5A (60W) AC Power Supply with Grounded, 2.1mm ID DC Power Jack with Screw In Type