



## 4x4 Multi-View Tiling Processor Matrix

KD-MLV4x4Pro

SKU: 177860    UPC: 815996022116

Key Digital's KD-MLV4x4Pro is a 4 HDMI input with 4 HDMI + 4 UHDoTP mirrored output matrix, multi-view tiling video processor, and independent audio routing. KD-MLV4x4Pro is perfect for applications like Sports & Gaming Caves, Bar & Restaurant, Corporate AV, House of Worship, Entertainment Centers, Museums, and E-Sports. Or, simply use KD-MLV4x4Pro to deliver wowfactor to your distributed video systems. The multi-view tiling processor enables users to view up to 4 video sources at the same time on a display in different default and custom layout presets. Custom and multi-view layouts include the option to layer content, applying desired bezel frame width and color. 4K / UHD content up to 3840 x 2160p 4:2:0 at 60fps is supported and when in full-screen mode switching from source to source is completely seamless. Integrate with legacy displays or projectors by applying 4K to 1080p or 720p down-conversion as needed. Each output has mirrored HDMI and UHDoTP connections, for a total of 8 possible connected displays. Four (4) Receiver units are included, and they get their power from the main unit for ease of installation.

KD-MLV4x4Pro supports independent audio routing with de-embedding 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 multi-view mode. For ease of installation and viewing, KD-MLV4x4Pro features 9 built-in test patterns and optional on-screen display text for each source.

### Features

- **Multi-view Tiling Processor:** Simultaneously watch multiple sources on a single screen
- **Full-Screen Mode:** View full-screen content on any display
- **Multi-View Mode:** Choose from 5 default layouts or create custom presets. The active multi-view layout is distributed to any display currently in multi-view mode
- **Seamless Switching:** Un-interrupted screen transitions during source selection while in full-screen mode
- **Built-In UHDoTP Tx with PoC:** 4 included KD-EXMLVRx units are powered by KD-MLV4x4Pro
- **Mirrored Outputs:** Simultaneously active HDMI + UHDoTP connections per output show same AV signal at same time for a total of 8 possible displays connected
- **Independent Audio Matrix:** Audio output ports may be routed separately from HDMI & UHDoTP ports. Audio from any source may be selected while in multi-view mode
- **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
- **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
- **Image Layering:** Stack images with customizable priority settings per output
- **Custom Layouts and Border:** Create custom Window layouts and choose window bezel width and coloring
- **HDCP 2.2 Licensing:** Fully licensed and compatible with HDCP 2.2
- **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)	HDMI Connector, Type A, 19 Pin Female
Output (Each)	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 $\Omega$ , DC coupling
Audio Bandwidth	20Hz to 20kHz @ 0dBu
TND + Noise	0.33% @0dBu @ 1kHz
Optical Max Output Level	1Vpp on 75 $\Omega$ , 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