



# kramer

## MV-4X

4 Window Multi-viewer/4x2 Seamless Matrix Switcher

---



MV-4X is a high-performance HDMI matrix switcher with integrated scaling technology and multi-windowing options. It is an ideal solution for monitoring or displaying multiple sources simultaneously for use in control rooms, conference rooms or classrooms. Video resolutions up to 4K@60Hz 4:4:4 and LPCM audio up to 7.1 channels and 192kHz are supported on both inputs and outputs. In addition, MV-4X is fully compatible with the HDCP 1.x and 2.3 standards.

The product offers 2 outputs – HDMI and HDBT. Users can choose to display any of the four HDMI sources individually, in full screen, or in a variety of multi-window modes that include quad mode, PiP, and PoP on both outputs. Alternatively, MV-4X offers a seamless (zero-time video cut) 4x2 matrix switcher option. The product also supports chroma-keying and includes a logo overlay feature.

You can control and manage the MV-4X, including the input/window routing, position, and size via the front panel OSD buttons, Ethernet (with embedded webpages), and RS-232

## FEATURES

---

**High Performance Multi-Viewer** - 18G 4K HDMI product with 4 HDMI inputs and HDBT and HDMI outputs that supports HDMI up to 4K@50/60Hz 4:4:4 and HDBT up to 4K@50/60Hz 4:2:0

**Zero-Time Video Cuts** - Connect up to four HDMI sources, an HDMI and an HDBT sink, and seamlessly switch between them

**HDMI Support** - HDR10, CEC (for outputs only), 4K@60Hz, Y420, BT.2020, Deep Color (for inputs only), x.v.Color™, 7.1 PCM, Dolby TrueHD, DTS-HD, as specified in HDMI 2.0

**Content Protection** - Supports HDCP 2.3

**Chroma Keying Support** - select to key the video input using a uniform-colored background  
- Includes numerous filters and algorithms that eliminate picture artifacts

**Matrix Switching** - Truly seamless zero time 4x2 switching in Matrix mode

**Multiple Display Options** - Display any of 4 HDMI sources individually, full screen, with seamless switching in Matrix mode. Or choose to display the sources using multi-window modes such as fully customizable standard views like PiP (Picture in Picture) and PoP (Picture outside of Picture) as well as Quad-window modes

**4 Preset Memory Locations** - Supports storage of multi-window arrangements as a preset for later use

**Auto Layout Support** - Auto-window mode that automatically changes the number of visible windows based on the number of live sources

- Independent audio source selection in all modes

**Image Rotation** - 90, 180 and 270-degree rotation support for 4K output resolutions on input 1 in matrix mode

**Selectable Border Design** - Each window can have a border with a selectable color

**Logo Support** - Upload and freely position graphic logo overlay as well as a boot screen logo

**Multi-view window Setup** - Intuitive and easy adjustment of window size, position, and settings

**User-friendly Control** - Via the built-in WebGUI, as well via the OSD-driven front-panel switches

**EDID Management** - Per-input EDID management with internal or external EDID options

**Local Monitor View** - Matrix mode is ideal for applications where the user requires a local monitor to view the image on the display before switching it to the remote display



# kramer

## TECHNICAL SPECIFICATIONS

---

Inputs	4 HDMI On a female HDMI connector
Outputs	1 HDMI On a female HDMI connector 1 HDBT On an RJ-45 connector 1 Balanced Stereo Audio On a 5-pin terminal block
Ports	1 IR IN On an RCA connector for IR tunneling 1 IR out On an RCA connector for IR tunneling 1 RS-232 On a 3-pin terminal block for RS-232 tunneling 1 RS-232 On a 3-pin terminal block for device control Ethernet On an RJ-45 port 1 USB On a type A USB port
Video	Max Bandwidth 18Gbps (6Gbps per graphic channel) Max Resolution HDMI: 4K@60Hz (4:4:4) HDBaseT: 4K60 4:2:0 Compliance HDMI 2.0 and HDCP 2.3 Extension Range Up to 40m (130ft): At 4K@60Hz 4:2:0 Extension Range Up to 70m (230ft): At full HD (1080p@60Hz)
Control	Front Panel Input, output and window buttons, operation mode buttons, menu buttons, resolution reset and panel lock buttons
Indication LEDs	Front Panel Output and window indication LEDs
Analog Audio	Max Vrms Level 15dBu Impedance 500Ω Frequency Response 20Hz - 20kHz @ +/-0.3dB S/N Ratio >-88dB, 20Hz - 20kHz, at unity gain (unweighted) THD + Noise <0.003%, 20 Hz - 20 kHz, at unity gain
Power	Consumption 12V DC, 1.9A Source 12V DC, 5A
Environmental Conditions	Operating Temperature 0° to +40°C (32° to 104°F) Storage Temperature -40° to +70°C (-40° to 158°F) Humidity 10% to 90%, RHL non-condensing
Regulatory Compliance (Standards Compliance)	Safety CE, FCC Environmental RoHs, WEEE
Enclosure	Size Half 19" 1U

Type Aluminum

Cooling Convection Ventilation

CONDUCTORS

Net Dimensions (W, D, H) 21.3cm x 23.4cm x 4cm  
(8.4" x 9.2" x 1.6")

General

Shipping Dimensions (W, D, H) 39.4cm x 29.6cm x 9.1cm  
(15.5" x 11.6" x 3.6")

Net Weight 1.29kg (2.8lbs)

Shipping Weight 1.84kg (4lbs) approx

Accessories

Included Power cord and adapter

Product Dimensions 21.30cm x 23.40cm x 4.00cm (8.39" x 9.21" x 1.57" ) W, D, H

Product Weight 1.3kg (2.8lbs) approx

Shipping Dimensions 39.40cm x 29.60cm x 9.10cm (15.51" x 11.65" x 3.58" ) W, D, H

Shipping Weight 1.8kg (4.1lbs) approx

