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## MV-4X

4 Window Multi-viewer/4x2 Seamless Matrix Switcher

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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

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**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



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## TECHNICAL SPECIFICATIONS

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| Inputs                                       | 4 HDMI On a female HDMI connector  |
| Outputs                                      | 1 HDMI On a female HDMI connector<br>1 HDBT On an RJ-45 connector<br>1 Balanced Stereo Audio On a 5-pin terminal block   |
| Ports  | 1 IR IN On an RCA connector for IR tunneling<br>1 IR out On an RCA connector for IR tunneling<br>1 RS-232 On a 3-pin terminal block for RS-232 tunneling<br>1 RS-232 On a 3-pin terminal block for device control<br>Ethernet On an RJ-45 port<br>1 USB On a type A USB port |
| Video  | Max Bandwidth 18Gbps (6Gbps per graphic channel)<br>Max Resolution HDMI: 4K@60Hz (4:4:4)<br>HDBaseT: 4K60 4:2:0<br>Compliance HDMI 2.0 and HDCP 2.3  |
| 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<br>Impedance 500Ω<br>Frequency Response 20Hz - 20kHz @ +/-0.3dB<br>S/N Ratio >-88dB, 20Hz - 20kHz, at unity gain (unweighted)<br>THD + Noise <0.003%, 20 Hz - 20 kHz, at unity gain   |
| Power  | Consumption 12V DC, 1.9A<br>Source 12V DC, 5A  |
| Environmental Conditions                     | Operating Temperature 0° to +40°C (32° to 104°F)<br>Storage Temperature -40° to +70°C (-40° to 158°F)<br>Humidity 10% to 90%, RHL non-condensing   |
| Regulatory Compliance (Standards Compliance) | Safety CE, FCC<br>Environmental RoHs, WEEE   |
| Enclosure                                    | Size Half 19" 1U<br>Type Aluminum<br>Cooling Convection Ventilation  |

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|---------------------|---|
| CONDUCTORS          | Net Dimensions (W, D, H) 21.3cm x 23.4cm x 4cm<br>(8.4" x 9.2" x 1.6")  |
| General             | Shipping Dimensions (W, D, H) 39.4cm x 29.6cm x 9.1cm<br>(15.5" x 11.6" x 3.6")<br><br>Net Weight 1.29kg (2.8lbs)<br><br>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<br><br>21.30cm x 14.50cm x 4.00cm (8.39" x 5.71" x 1.57" ) W, D, H                                |
| Product Weight      | 1.3kg (2.8lbs) approx<br><br>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<br><br>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<br><br>1.8kg (4.1lbs) approx  |

