

VM6404HB

4 x 4 True 4K HDMI Matrix Switch with Scaler



True 4K Pro AV solutions with High Dynamic Range (HDR) technology is the trend of high-definition video that delivers the ultimate visual experience with exceptional sharp and vibrant video quality. ATEN's VM6404HB True 4K [HDMI Matrix](#) Switch with Scaler is compatible with the latest True 4K video resolutions of 4096 x 2160 / 3840 x 2160@60Hz (4:4:4) and HDR, guaranteeing crystal-clear images across four displays.

The VM6404HB supports 4K@60Hz, HDMI 2.0, and HDCP 2.2 and features Seamless Switch™ that employs an FPGA matrix architecture that ensures continuous video streams, real-time control, and stable signal transmissions. With a built-in high-performance scaler, the VM6404HB easily converts various input resolutions into various output display resolutions, giving viewers the best video and picture quality across all displays. The switch integrates video wall functionality with an easy-to-use web GUI that lets you create 8 connection profiles that can be customized into different video wall layouts.

The VM6404HB is an ideal solution for applications that require multiple HDMI displays with multiple HDMI sources to be conveniently set up – such as for stage presentations, digital classroom, video conference rooms, and any installation that requires real-time synchronization.



Features

- 4 x 4 HDMI input/output connections
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232 control, and Ethernet connection for web GUI or Telnet
- View and control via ATEN [Video Matrix](#) Control App in a swift and agile way
- [True 4K Resolutions](#) – handles uncompressed video resolutions up to 4096 x 2160 / 3840 x 2160@60Hz (4:4:4)
- [4K Scaler](#) – features a 4K video scaler to convert input resolutions to the optimum display resolutions
- Seamless Switch™ – features close-to-zero second switching for continuous video streams, real-time switching, and stable signal transmissions*
- [Video Wall](#) – allows you to create custom video wall layouts via intuitive web GUI*
- [True 4K EDID Expert](#) – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- [FrameSync](#) – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Audio-enabled – HDMI audio can be extracted to stereo audio
- HDMI (3D, Deep color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) support
- [ESD protection](#) for HDMI
- Rack-mountable (1U design)

*Note:

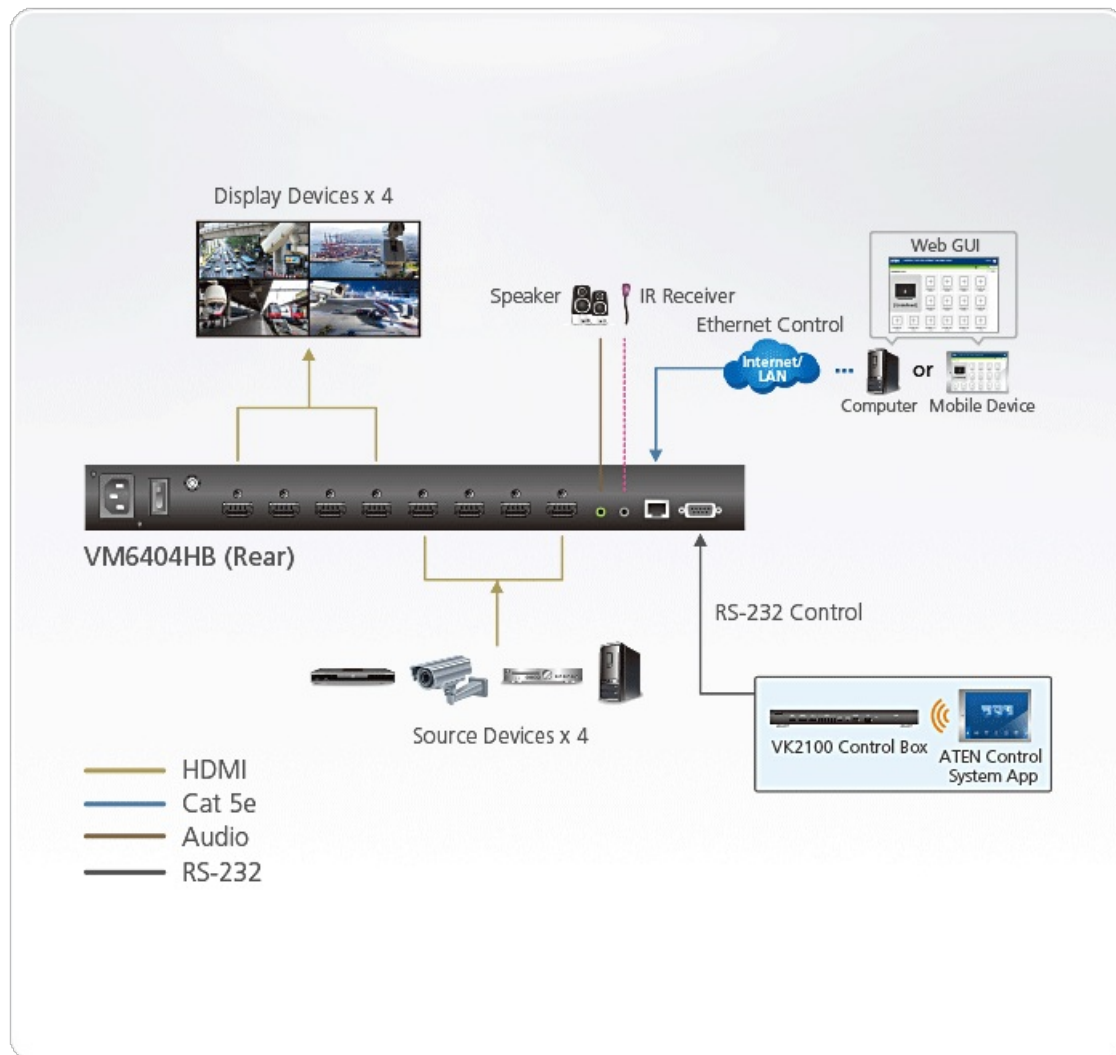
1. When Seamless Switch™ is enabled, 3D, Deep Color, or interlace (i.e., 1080i) formats will not be supported. To use these formats, make sure to disable Seamless Switch™.
2. Videos may not display within range when Seamless Switch™ or Video Wall is enabled, in which case please adjust the display settings on your device

Specifications

| | |
|----------------------------|--|
| Video Input | |
| Interfaces | 4 x HDMI Type A Female (Black) |
| Impedance | 100 Ω |
| Max. Distance | 5.0 m |
| Video Output | |
| Interfaces | 4 x HDMI Type A Female (Black) |
| Impedance | 100 Ω |
| Max. Distance | 5.0 m |
| Video | |
| Max. Data Rate | 18.0 Gbps (6.0 Gbps per lane) |
| Max. Pixel Clock | 600 MHz |
| Compliance | HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC) |
| Max. Resolution | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) |
| Max. Distance | Up to 5.0 m |
| Audio | |
| Output | 1x Mini Stereo Jack Female |
| Control | |
| RS-232 | Connector: 1 x DB-9 Female (Black); Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No |
| IR | 1 x Mini Stereo Jack Female (Black) |
| Ethernet | 1 x RJ-45 Female |
| EDID Settings | EDID Mode: Default / Port 1 / Remix / Customized (EDID Wizard Support) |
| Connectors | |
| Power | 1 x 3-prong AC Socket |
| Power | |
| Maximum Input Power Rating | 100-240 VAC;50-60Hz;1.0A |

| | |
|------------------------|--|
| Power Consumption | AC110V:43.7W:205BTU/h AC220V:43.1W:202BTU/h Note: <ul style="list-style-type: none"> ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. |
| Environmental | |
| Operating Temperature | 0-40°C |
| Storage Temperature | -20 - 60°C |
| Humidity | 0 - 80% RH, Non-Condensing |
| Physical Properties | |
| Housing | Metal |
| Weight | 3.52 kg (7.75 lb) |
| Dimensions (L x W x H) | 43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.) |
| Carton Lot | 1 pc |
| Note | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format. |

Diagram



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