

VM6404H

4x4 4K HDMI Matrix Switch with Scaler



reddot award 2015
winner interface design



4K is the next generation of image quality for high definition video. 4K delivers eight million pixels which is four times as much detail as 1080p Full HD resolutions. ATEN's VM6404H 4K HDMI Matrix Switch with Scaler is compatible with the two latest 4K video resolution standards: 3840 x 2160 and 4096 x 2160. The VM6404H provides powerful HD processing to produce 4K resolutions across four displays with crystal clear images.

The VM6404H supports 4K@60Hz, HDMI 2.0* and HDCP 2.2 and features seamless switching that employs a FPGA matrix architecture that ensures continuous video streams, real-time control and stable signal transmissions. With a built-in high-performance scaler, the VM6404H 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.

* HDMI 2.0 supports 3840 x 2160 @30 Hz (4:4:4), 3840 x 2160 @60 Hz (4:2:0), 4096 x 2160 @ 30Hz (4:4:4), 4096 x 2160 @ 60 Hz (4:2:0) resolutions

The VM6404H is an ideal solution for applications that require multiple HDMI displays with multiple HDMI sources to be conveniently setup – such as for stage presentations, digital classroom, video conference rooms and any installation that requires real-time reporting.

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HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE



Features

- 4 x 4 HDMI input/output connections
- Multiple means for system configuration including front-panel pushbuttons, IR, RS-232 control, and Ethernet connections for web GUI or Telnet
- View and control via [ATEN Video Matrix Control App](#) in a swift and agile way
- **4K Scaler** – features a 4K video scaling function to convert input resolutions to the display's native 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*
- **EDID Expert** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- 4K Video Wall using Lower-Resolution Displays – split a 4K signal to four 1080p displays to form a 2x2 4K video wall
- **FrameSync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- HDMI (3D, Deep color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) supported*
- **ESD protection** for HDMI
- Rack mountable (1U design)

*Note:

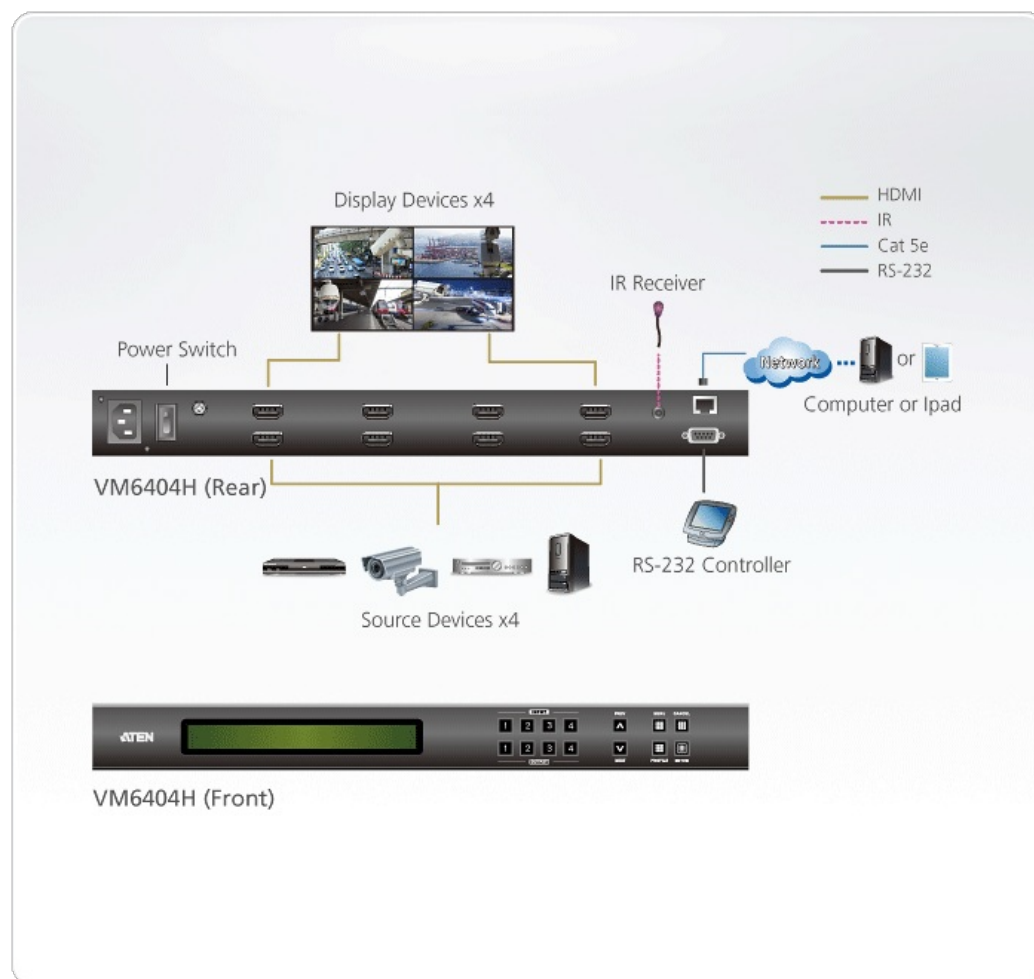
1. When Seamless Switch™ is enabled, 3D, Deep Color, or interlace (i.e., 1080i) formats will not be supported. To use these formats, make sure to disable Seamless Switch™.
2. Videos may not display within range when Seamless Switch™ or Video Wall is enabled, in which case please adjust the display settings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

Specification

Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3.0 m
Video Output	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m
Video	
Max. Data Rate	10.2 Gbps (3.40 Gbps per lane)
Max. Pixel Clock	340 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 (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	Up to 15 m
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:47.6W:223BTU/h AC220V:47.5W:223BTU/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	0-50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	4.72 kg (10.4 lb)
Dimensions (L x W x H)	43.24 x 30.73 x 4.40 cm (17.02 x 12.1 x 1.73 in.)
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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