

VM5404D

4 x 4 DVI Matrix Switch with Scaler



reddot award 2015
winner interface design



While HDMI-compliant devices are becoming more popular, the majority of traffic control centers and other large-scale, centralized control rooms still rely on DVI display devices.

In order to avoid signal instability, quality deterioration and other factors associated with interface converters, ATEN created the VM5404D: A seamless matrix switch for DVI signals that offers an easy and affordable way to route any of 4 DVI video sources to any of 4 DVI displays.

The VM5404D includes [seamless switching](#) that employs an FPGA matrix architecture to ensure continuous video streaming, real-time control and stable signal transmission. With a built-in high-performance scaler, the VM5404D easily converts various input resolutions into a array of output resolutions, giving viewers the best image quality across all displays. The switch also integrates video wall functionality with an easy-to-use web GUI that lets you create 8 connection profiles for convenient layout customization.

The VM5404D is the ideal solution for any control center streaming multiple sources to multiple displays.



Features

- 4 x 4 DVI I/O connections
- Configuration and Control via pushbuttons / IR Remote Control
- View and control via ATEN [Video Matrix](#) Control App in a swift and agile way
- System Operation via bi-directional RS-232 serial controller / Browser Graphical User Interface (GUI) / Telnet
- Extends IR transmission via IR extension cable
- Built-in Scaler on each output port converts input resolutions into the display's native resolution, supports scaling 1920 x 1200 resolutions up or down
- Seamless Switch™ – ATEN FPGA design unifies video formats to provide continuous video streams, real-time switching and stable signal transmissions *
- Video Wall – features up to 8 video wall profiles for custom screen layouts via point-n-click web GUI *
- EDID Expert – configures optimum [EDID](#) settings for smooth power-up, high-quality display and use of the best resolution across different screen
- Firmware Upgradeable
- Rack Mountable (1U Design)

Note:

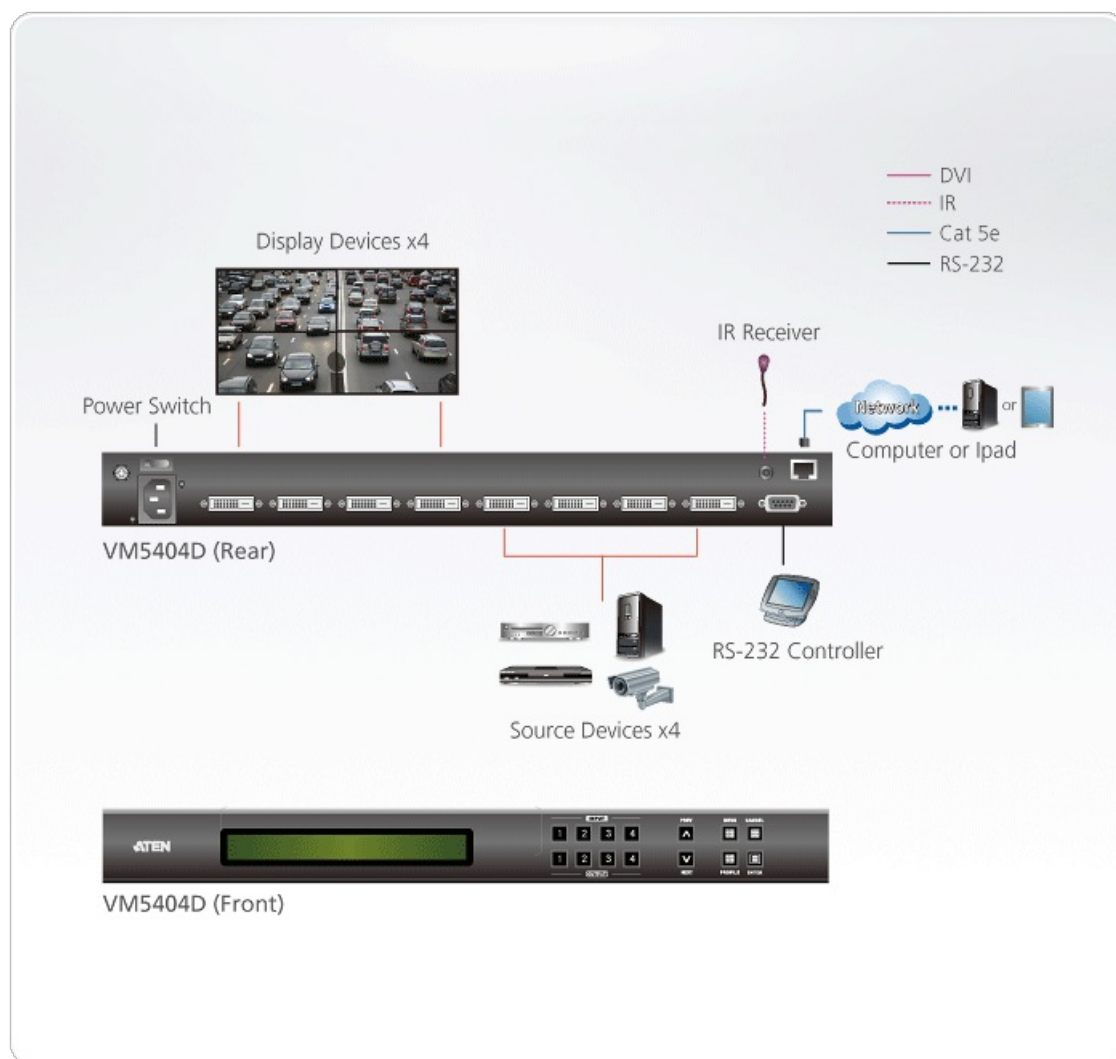
1. If [Seamless Switch](#) is enabled, the video output will not display 3D, Deep Color, or interlace (i.e., 1080i) resolution features. To use these features, you must disable [Seamless Switch](#).
2. Videos may not display within range when [Seamless Switch](#)™ or Video Wall is enabled, in which case please adjust the display settings on your device.

Specifications

Video Input	
Interfaces	4 x DVI-D Female (White)
Impedance	100 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	4 x DVI-D Female (White)
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDCP 1.4 Compatible
Max. Resolution	Up to 1920 x 1200
Max. Distance	Up to 5m
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Black)
EDID Settings	EDID Mode: Default / Port 1/ Remix / Customized
Connectors	
Power	1 x 3-Prong AC Socket
Power	
Maximum Input Power Rating	100-240VAC; 50-60Hz; 1.0A
Power Consumption	AC110V:34.1W:160BTU AC220V:34.4W:161BTU
Environmental	
Operating Temperature	0-50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	3.50 kg (7.71 lb)

Dimensions (L x W x H)	43.24 x 25.98 x 4.40 cm (17.02 x 10.23 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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