

VM1616T

Media Matrix Solution

16x16 Cat 5 AV Matrix Switch

- The VanCryst™ Media Matrix Solution is a combination of the VM1616T 16x16 Cat 5 A/V Matrix Switch and the VE500 / VE300 A/V Over Cat 5 Extender. The VM1616T is a Matrix Switch that routes and distributes audio, video, and RS-232 signals over distances of up to 300 m with 1920 x 1200 video resolution. The VM1616T can receive data from up to 16 audio/video sources and transmit data to up to 16+1 audio/video displays. The VM1616T offers several convenient ways to access and control the source devices: locally, with front panel pushbuttons and an RS-232/ RS-485/RS-422 serial port; and remotely, over the Internet with a browser-based web page interface.

The Media Matrix Solution is an ideal solution when long runs to the A/V output locations are required, and where versatility and security are essential. The VM1616T is designed for deployment in environments that involve routing video signals such as those found in casinos, transportation and logistics centers, traffic control centers, port security facilities, industrial supervision settings, etc.

Front view



Rear view



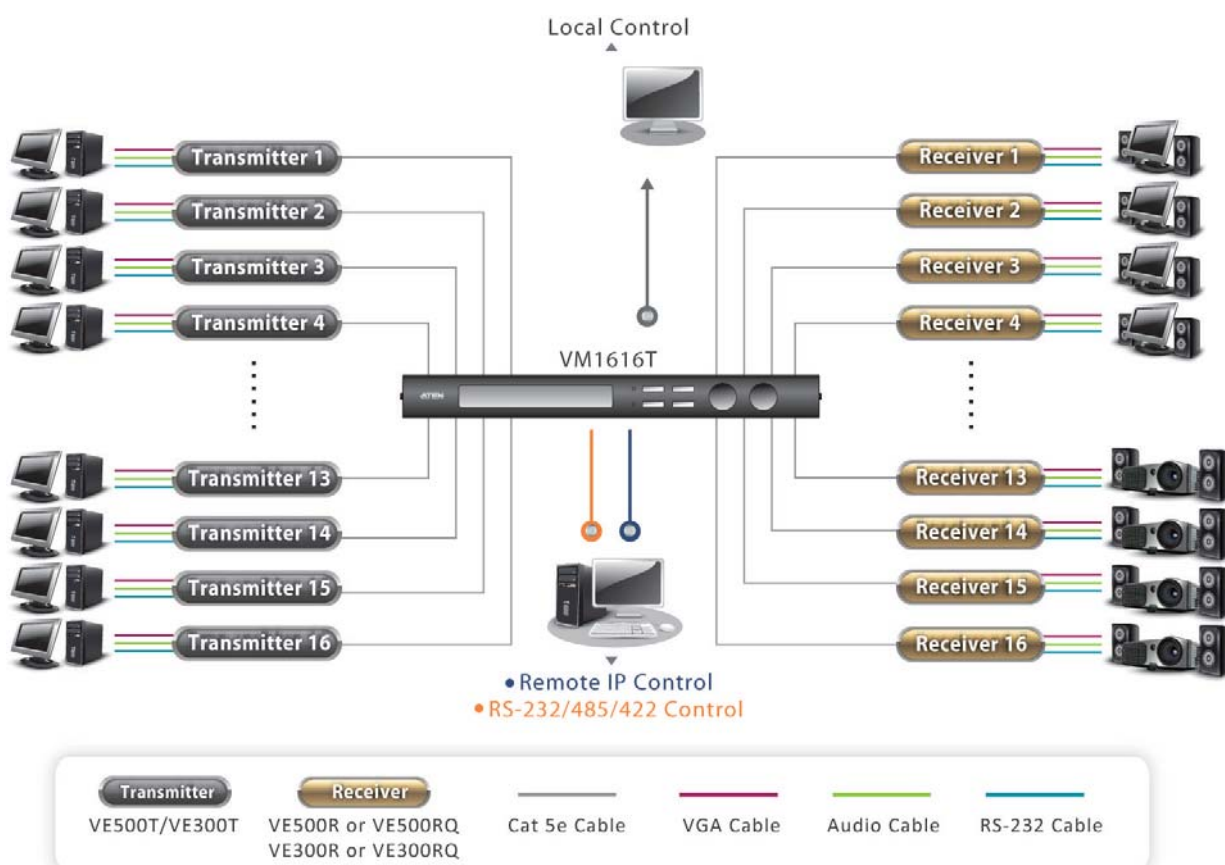
Features

- Connects any of 16 Cat 5 AV inputs to any of 16 Cat 5 AV outputs in combination with ATEN VE500/VE300 AV Over Cat 5 Extender system
 - Long signal range – supports up to 300 meters between VE500T/VE300T transmitters and VE500R/VE500RQ VE300R/VE300RQ receivers
 - Easily switch between multiple sources and multiple displays
 - Local Operation:
 - Front panel LCD display and pushbuttons
 - Serial controller
 - Remote Operation:
 - Browser Graphical User Interface (GUI)
 - Telnet
 - Supports additional local display – provides an extra output source
 - Built-in bi-directional RS-232 serial port for high-end system control
 - Supports video quality – up to 1920 x 1200@60Hz; DDC2B
 - Supports stereo and balanced audio
 - Automatic and adjustable video quality
 - Independent switching of audio and video sources – any audio source can be connected to any video source for output flexibility
 - Upgradeable firmware
 - Rack Mountable
- * **Note:** The VM1616T AP and GUI operation instructions can be downloaded from the ATEN website (www.aten.com)

Benefits

Easy Configuration and Control	The Media Matrix Solutions make managing your equipment easy and convenient by offering several access and control options – including front panel pushbuttons, RS-232/RS-485/RS-422 serial connectivity, and a browser based web interface.
Boost Management Efficiency	Media Matrix switches support for over IP connectivity increases management efficiency and flexibility. Operators are no longer tied to the work center. Now, they can log in remotely over a standard TCP/IP connection from just about anywhere.
Convenient Local Management	Local AV ports on the switch's back panel permit connecting directly to any device in its vicinity, eliminating the need for receivers. Convenient monitoring at the local site is provided by support for an extra local display – allowing administrators to easily view the video output of each source device.
Independent Routing	The switch's audio and video sources can be routed independently to their target destinations. The audio output of one source can be sent to one destination, while its video output can be sent to a different one – providing unsurpassed control of the installation's media output.
Serial Connectivity	Media Matrix switches incorporate a bi-directional RS-232 serial port that provides the ability to integrate serial connectivity devices – such as barcode scanners, POS terminals, kiosk touch screens, etc. – as part of the installation.

Bi-directional Serial Control	The VM1616T provides bi-directional serial RS-232 / 485 / 422 functionality that allows you to access the device, providing port switching, mute, save/load profile, video adjustment and audio adjustment controls using a high-end serial controller.
Exceptional Video Over Long Distance	ATEN's patented Deskew technology automatically synchronizes the time delay of RGB signals and corrects the color phase and timing errors that occur over large distances, allowing you to transmit HD video signals over distances of up to 300 meters without sacrificing video quality. The result is clear, sharp, video at all supported distances.
Flexible Deployment	Use of RJ-45 connectors and Cat 5e cable to connect the transmitters and receivers means your devices can be deployed in the most convenient locations for viewing and listening – up to 300m from the switch. The VM1616T can be located anywhere within 300 m.
Superior Balanced Audio Quality	The balanced audio connector consists of three wires – two carrying the signal and a shield/ground conductor. It uses XLR connectors or a 1/4" TRS jacks for connection, and provides the highest quality balanced audio.



Specification

Model	VM1616T
A/V Input	16
A/V Output	16
Audio Enabled	Stereo, Balanced*
Video Quality	1920 x 1200
Distance	Up to 300 m**
Serial RS-232 Support	•* (command control and channel by pass)
Group Screen On / Off	• (RS-232 Commands)
Compatible Transmitters or Receiving Devices	VE500T/VE500R, or VE500RQ VE300T/VE300R or VE300RQ
Deskew Technology	•*
Picture Adjustment	Pushbutton / Browser / RS-232
Power Consumption	120V, 34W; 230V, 35W
Housing	Metal
Weight	3.63 kg
Dimensions (L x w x H)	43.24 x 27.12 x 4.40 cm

* Depends on transmitter and receiver type.

** The maximum transmission distance between transmitter and receiving device is 300 m. VM1616T can be located anywhere within 300 m.

Model	VE500	VE300
Interface	VGA	VGA
Inputs to outputs	1 to 1	1 to 1
Max. Video Resolution	VE500R: 1920 x 1200 @ 60 Hz at 30m, 1600 x 1200 @ 60 Hz at 150m VE500RQ: 1920 x 1200 @ 60 Hz at 150m, 1280 x 1024 @ 60 Hz at 300m	VE300R: 1920 x 1200 @ 60 Hz at 30m, 1600 x 1200 @ 60 Hz at 150m, 1280 x 1024 @ 60 Hz at 200m VE300RQ: 1920 x 1200 @ 60 Hz at 150m, 1280 x 1024 @ 60 Hz at 300m
Audio	• (Balanced Audio)	•
RS-232	•	
Video Quality Control	Manual and Automatic deskew / compensation control	Manual and Automatic deskew / compensation control
Power Consumption	VE500T : DC5.3V, 3 W VE500R : DC5.3V, 4W VE500RQ : DC5.3V, 5.6W	VE300T : DC5.3V, 2.6 W VE300R : DC5.3V, 4W VE300RQ : DC5.3V, 4.3W
Housing	Metal	Metal
Weight	0.48 kg	0.47 kg
Dimensions (L x w x H)	20.20 x 8.64 x 2.50 cm	20.20 x 8.20 x 2.50 cm

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