Simply Better Connections

VE500

VGA/Audio/RS-232 Cat 5 Extender with Auto Compensation (1280 x 1024@300m (RQ))

The VE500 A/V Over Cat 5 Extender is exclusively designed to integrate seamlessly with the ATEN VM0808T/VM1616T Matrix Switch. The VE500 allows you to extend the distance between a source device and video display up to 150 m with a resolution of 1600 x 1200 (VE500R), or up to 300m with a resolution of 1280 x 1024 (VE500RQ).

It is able to accomplish this by means of a local transmitting unit (the VE500T), connected to the remote receiving unit (either the VE500R or VE500RQ), using Cat 5e twisted pair cable.Because it allows access to the audio/video/RS-232 source over large distances, the VE500 is ideal for installations such as construction sites, factory floors, control and security centers, where the system equipment can reside in a safe and secure location, while the display is conveniently located in public view.

To provide optimum video quality over large distances, the VE500RQ supports RGB delay tuner functionality – allowing you to manually synchronize the RGB signals. It also provides a line synchronization function that corrects color phase and timing errors that occur over long distance transmissions, and stores the settings.

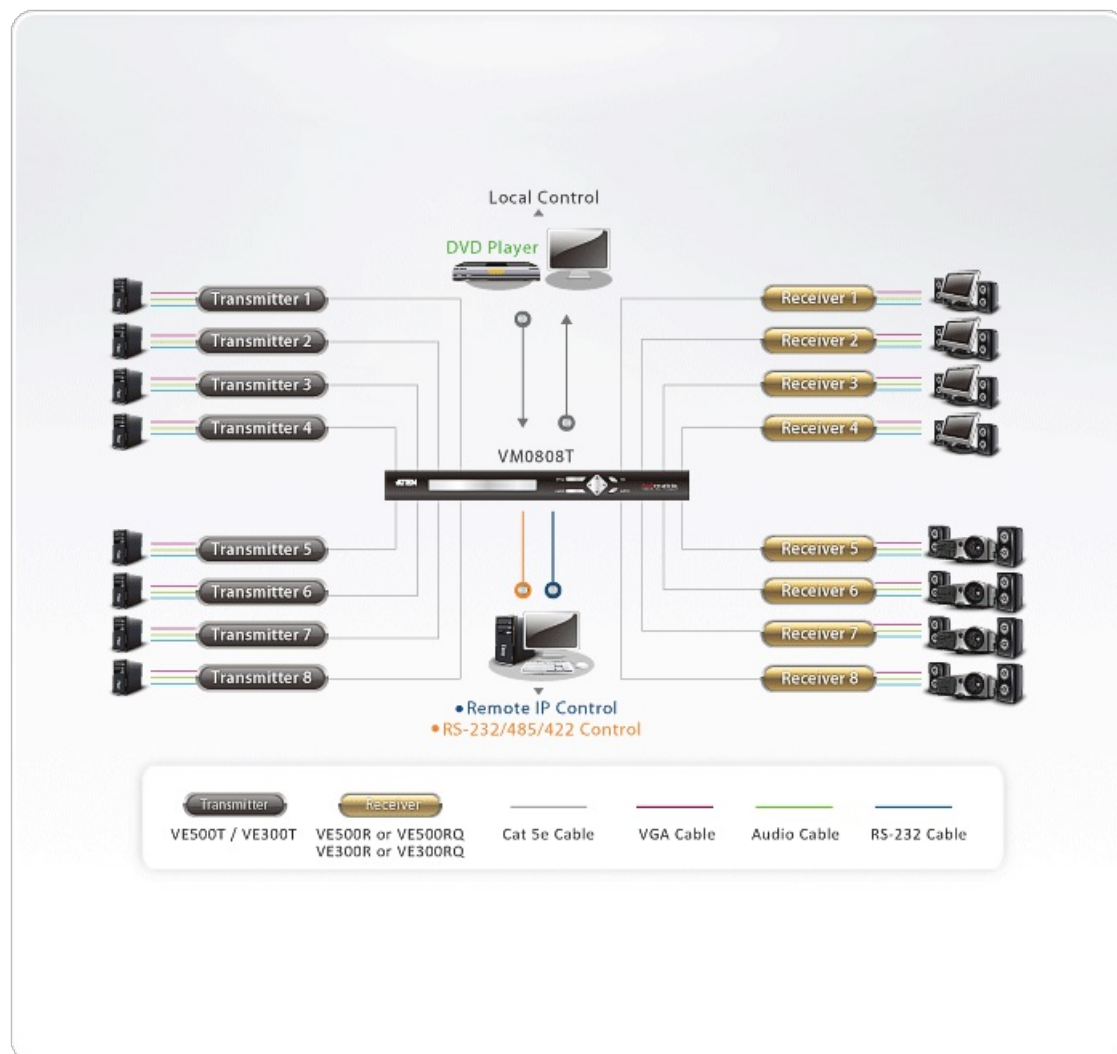Note: VE500T, VE500R and VE500RQ are sold separately.

Features

- Uses Cat 5e cable to connect the Transmitter and Receiver
- Deskew Function (VE500RQ) - automatically synchronizes the time delay of RGB signals to compensate for distance
- Long Distance Transmission up to 300 m
- Superior video quality
  • VE500R: 1920x1200 @60Hz (30 m); 1600x1200 @60Hz (150 m)
  • VE500RQ: 1920x1200 @60Hz (150 m); 1280x1024 @60Hz (300 m)
- Superior audio quality - balanced audio provides flawless long-distance transmission
- Adjustable gain control - manually adjust signal strength to compensate for distance
- Supports one local and one remote displays
- Provides RS-232 channel
- Supports wide screen
- Rack Mountable

Specifications

Video Input	
Interfaces	VE500T: 1 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m

Video Output	
Interfaces	VE500R/RQ: 1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	VE500R: 1920 x 1200@30m; 1280 x 1024@200m VE500RQ: 1920 x 1200@150m; 1280 x 1024@300m
Audio	
Balanced: 1 x Captive Screw Connector, 5 Pole (Green) Stereo: 1 x Mini Stereo Jack Female (Green)	
Output	Balanced: 1 x Captive Screw Connector, 5 Pole (Green) Stereo: 1 x Mini Stereo Jack Female (Green)
Control	
RS-232	Connector: VE500T: 1 x DB-9 Female (Black); VE500R/VE500RQ: 1 x DB-9 Male (Black) Serial Control Pin Configurations: Female: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd Male: Pin2 = Rx, Pin 3=Tx, Pin 5= Gnd
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	VE500T: 5.3 VDC, 2.98W VE500R: 5.3 VDC, 4.04W VE500RQ: 5.3 VDC, 5.63W Note: ● 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
Carton Lot	5 pcs

Diagram