VE300

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

The VE300 A/V Over Cat 5 Extender system is designed to integrate seamlessly into installations with the ATEN VM0808T Cat 5 A/V Matrix Switch. With ATEN's exclusive Deskew technology, the VE300 allows you to extend the distance between the A/V source and the display monitor by up to 500 feet (150 m) with a resolution of 1600x1200 (for the VE300R), or up to 1000 feet (300 m) with a resolution of 1280x1024 (for the VE300RQ).

It is able to accomplish this by means of a local transmitting unit (the VE300T), connected to the remote receiving unit (either the VE300R or VE300RQ), using Cat 5e twisted pair cable. Because it allows access to the audio/video source over large distances, the VE300 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 VE300RQ 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.

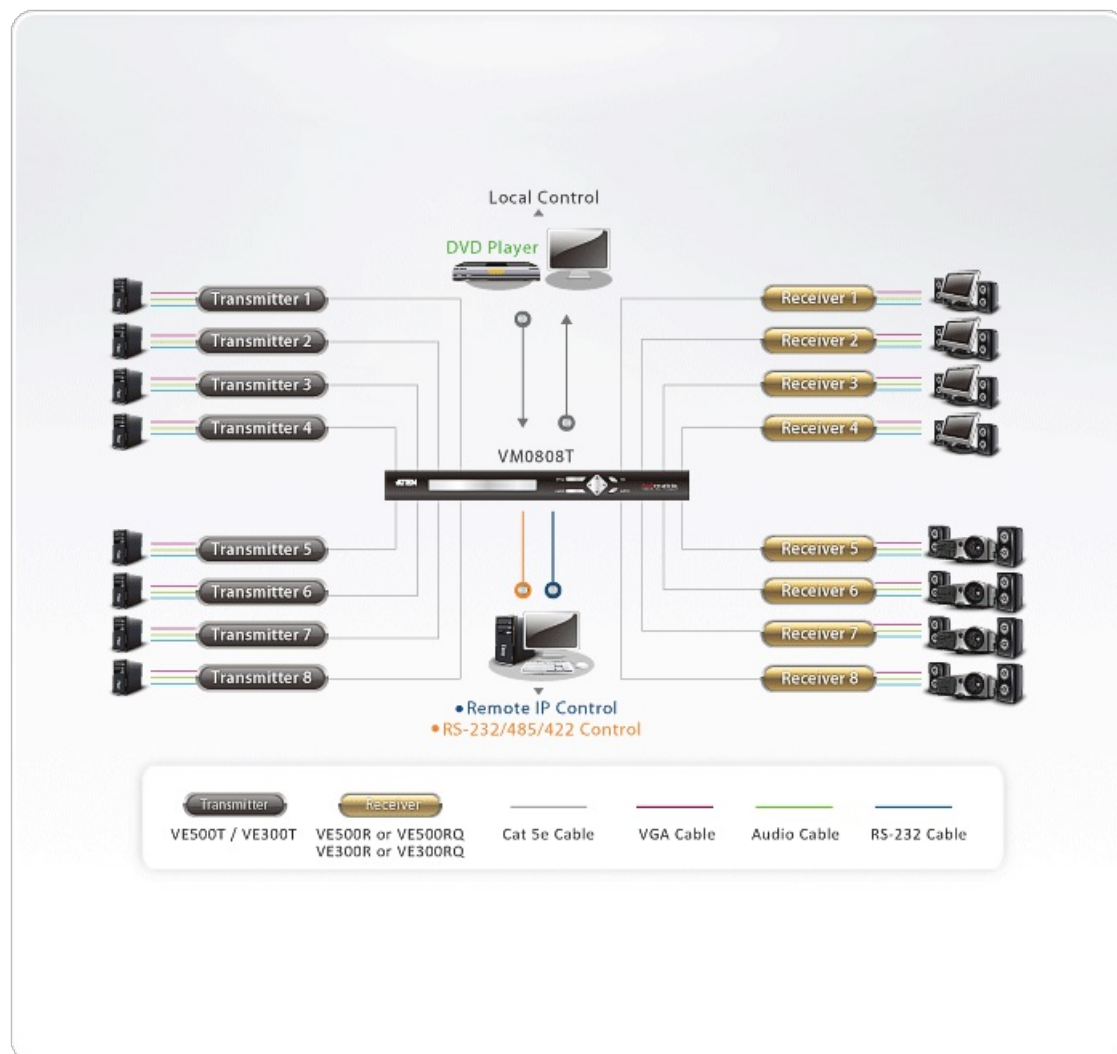Note: VE300T, VE300R and VE300RQ are sold separately.

Features

- Uses Cat 5e cable to connect the Transmitter and Receiver
- Extends A/V source in VM0808T installations
- Supports one local and one remote displays
- Superior RGB deskew function (VE300RQ)– automatically synchronizes the time delay of RGB signals to compensate for distance
- Long Distance Transmission up to 1000 feet (300 m)
- Superior video quality
  · VE300R: 1920x1200@60Hz 100 feet (30 m), 1600x1200@60Hz 500 feet (150 m), 1280x1024@60Hz 650 feet (200 m)
  ·VE300RQ: 1920x1200@60Hz 500 feet(150 m), 1280x1024@60Hz 1000 feet (300 m)
- Automatic and adjustable gain control – adjust signal strength to compensate for distance
- Supports wide screen
- Rack-mountable
- Built-in 8KV/15KV ESD protection

Specification

Video Input	
Interfaces	VE300T: 1 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	VE300R: 1920 x 1200@30m; 1280 x 1024@200m VE300RQ: 1920 x 1200@150m; 1280 x 1024@300m
Audio	
1 x Mini Stereo Jack Female (Green)	
Output	Stereo: 1 x Mini Stereo Jack Female (Green)
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	VE300T: 5.3 VDC, 2.61W VE300R: 5.3 VDC, 4.00W VE300RQ: 5.3 VDC, 4.32W 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