



EVENTGUARD

Video Motion Detection (VMD) Server



AXIAL
Technologies
A Division of PLE-Communications

Powered by AVT234[®] Software

EventGuard VMD Features

- ⊕ AVT234[®] Video Motion Detection Software Engine
- ⊕ Extremely low false alarms on snow, rain, lightening, foliage, sun glints, low lighting
- ⊕ Immediate visual assessment- live video remotely, or emailed image
- ⊕ Easily integrated into existing surveillance systems
- ⊕ Works with all brands of PTZ, Fixed, thermal, IR, Near IR cameras
- ⊕ A-GAS Damage Prevention Module for unattended pipeline protection is available
- ⊕ Meets NERC/CIP physical and cybersecurity regulations
- ⊕ Starts detecting less than 2 seconds after power on
- ⊕ Has passed multiple NERC/CIP audits

About AVT234[®] Software

The AVT234[®] software engine is at the core of the PLE/Axial product line. AVT234[®] Video Perimeter Surveillance and Intrusion Detection delivers superior outdoor performance in all weather conditions. No zones, camera calibration, or pre-populated databases are needed: AVT234[®] detects on the entire camera view the entire time. Choose from a number of products to fulfill your stationary, mobile or ruggedized perimeter surveillance needs. Low false and nuisance alarms and a high detection rate are promised by many. AVT234[®] delivers.

Utility/ Commercial/ Pipeline Protection



Securing critical gate stations, substations, gas and oil pipelines, and other critical energy and commercial infrastructure means more than just security cameras. The **EventGuard** Video Motion Detection (VMD) Server, powered by the AVT234[®] software engine, is a server-based solution for unattended video motion detection and assessment of perimeters in outdoor settings. With a tested detection rate of up to 99% accuracy outdoors and almost zero nuisance and false alarms, the **EventGuard** VMD Server is a cost-effective add-on to existing security systems. Its complex algorithm processing lets the AVT234[®] software engine “learn on the fly” to ignore natural outdoor scene changes like snow, sun glints, and leaves blowing, dramatically reducing false and nuisance alarms.

A mature, focused and field-tested technology, the **EventGuard** VMD Server can monitor up to eight camera feeds per unit, and generates alerts automatically and in real-time that pop up to alert the Security Operations Center, allowing rapid intervention of unauthorized access.

To protect against damage to oil and gas pipelines and right-of-ways, the A-GAS optional Damage Prevention module can be activated that generates an alert only when a detected object stops and pauses within a protected zone, reducing chances of third-party damage. Differentiated alerts from the VMD and A-GAS reside on the same server, and cameras can be individually designated.

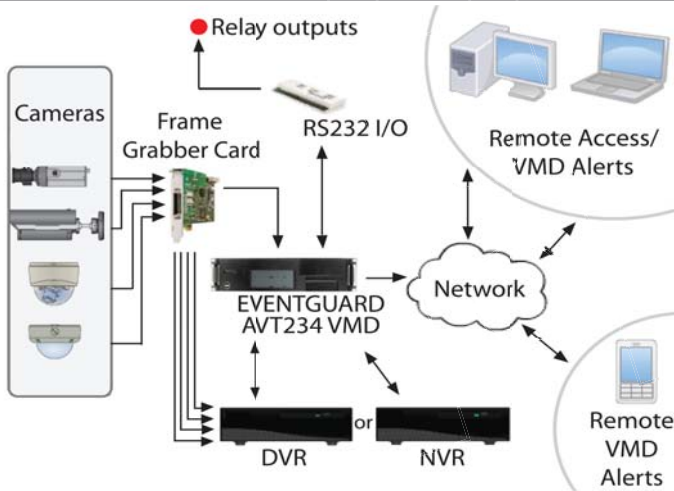
The AVT234[®] Horizon Line feature provides range and target estimates using proprietary calculations in place of range finders or GPS inputs.

The **EventGuard** VMD Server can be purchased for a new install or integrated with existing security systems and can integrate with analog or IP cameras, and has passed multiple NERC/CIP audits.

Watch. Identify. Respond.

Additional EventGuard VMD Features

- The A-GAS Damage Prevention module can be added to any EventGuard product to protect underground gas and oil pipeline right-of-ways and construction sites from third party damage. VMD and A-GAS can run simultaneously on the same server and cameras are individually configurable for either VMD or A-GAS.



- Meets NERC/CIP 006-05 Physical Security and NERC/CIP 006-03 Cybersecurity Requirements
- Alarms can be sent via email, serial relay, and XML, and can be audible at location
- Remote access available over network via VNC and SSH
- Works with all brands of fixed, PTZ, video, thermal, IR, Near IR, long-range and wide area cameras
- PTZ zooms in automatically on alarm
- Detects on the entire camera field-of-view, no zoning out or camera calibration required
- Horizon Line feature provides alert range and target track estimates



Server Specifications

Available AVT234 Configurations	Up to 8 Camera feeds per AVT234 [®] AVT234 [®] or AVT234-SE (Secure Edition) With or without A-GAS Damage Prevention module All products can be customized for specific applications
OS	Linux
NIC	100/1000 Ethernet
Inputs/Outputs	3 x RS-232, 1 x VGA, 2 x RJ45, 4 x USB, 4-8 video ports
BNC Input (NTSC/PAL)	PCIe frame grabber 4 port video capture
Dimensions	mm: 482.6 x 431.8 x 88.8 inches: 19 x 17" x 3.5"
Weight	12.7kgs / 27.9lbs
Input Voltage	120 VAC
Cooling	Middle: 2 x 80 x 25mm fans Rear: 1 x 97mm blower
Tested Outdoor Temp	32°F (0° C) ~ 122°F (50° C) Overheat and low voltage protection
Tested Humidity	5% ~ 95% non-condensing
Standards Met	US Air Force Certified PL 1-4 Intrusion Detection System Uses SEIWG-ICD-0101B VMD for XML Exchange AVT234-SE is Certified to meet NIST 800-53 Cybersecurity Risk Management Standards Meets NERC/CIP 006-5 Physical and 006-3 Cybersecurity requirements
Integration	Integrates with multiple NVR and annunciator display systems Cameras: Fixed, PTZ, thermal, IR, Near IR, long-range, wide-area, any brand
Alarming	Can be sent via email, serial relay, and XML, and is audible at location
Accessibility	Locally, and remotely via VNC or SSH

AVT234[®] alerts on a copper thief even though he is occluded by a transformer and intruding at night.

A-GAS Damage Prevention module alerts on backhoe but not on traffic.



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