



# Virtual Perimeter Monitoring System (VPMS)<sup>™</sup>

## *Intelligent Video Surveillance Kit*

### REMOTE, RAPIDLY DEPLOYABLE SOLUTION

The virtual perimeter monitoring system (VPMS<sup>™</sup>) kit is a proven surveillance solution that enables users to access remote video in real time from a central location. Originally developed by 3e Technologies International for the U.S. Navy, the VPMS kit utilizes video analytics technologies in a wireless mesh video network configuration to better protect civilian operations by alerting users to emergencies or potentially threatening situations.

All equipment is housed in a heavy duty, waterproof case and is suitable for storage, transport and deployment that sets up quickly, virtually anywhere. The portable VPMS kit is comprised of six video sensor units and one alert console unit, each packaged in a rugged, watertight case. The sensor units intelligently analyze video taken on scene and relay information

to the alert console unit, typically located at a remote command center, over a FIPS 140-2 Validated<sup>™</sup> secure wireless LAN. Video sensors placed within 2,000 feet of each other automatically establish a mesh network that relays video and data to the alert console. The wireless network can cover extended distances up to several miles via the use of higher gain omni-directional antennas.

The video sensor and alert console units are connected over a secure IEEE 802.11 a/b/g wireless mesh network using 3eTI FIPS 140-2 Validated<sup>™</sup> devices. Data rates of 54 Mbps with actual data throughput of up to 20 Mbps are possible. The kits are powered by any standard 110V AC power source, and for remote deployments an optional battery kit can power the kits for up to 24 hours (recharging takes 6 to 12 hours).

### **BENEFITS**

- Fast deployment — 20 minutes or less for each kit
- Real-time video surveillance for a range of applications
- Intelligent system using video analytics for alerts
- IDN camera for 24-hour surveillance
- Self-forming, self-healing mesh network for uninterrupted operation



# 3eTI Solutions: Protecting the Infrastructure of America

## Video Sensor Unit

The video sensor units (VSU) are made up of an integrated day / night (IDN) video camera, wireless video server, Ethernet video server, wireless access point / bridge, and tripod. The video sensor units contain all the components needed to set up a wireless video sensor with *video analytics* software and stream the video in real time to the alert console. The sensor unit components can be mounted on the tripod and deployed in 20 minutes or less; they can also be bracketed to convenient railings or bulkhead, or mounted on a vehicle, depending on what the situation demands.

## Alert Console Unit

The alert console performs all rule and alert set-up functions, serving as the display console for all alerts. The console includes a rugged laptop loaded with *video management* and 3eTI secure client software, and a 3eTI wireless access point and bridge packaged in a watertight case. The laptop connects to the remote sensors over a FIPS 140-2 Validated™ secure wireless LAN integrated via the 3eTI wireless access point and bridge.

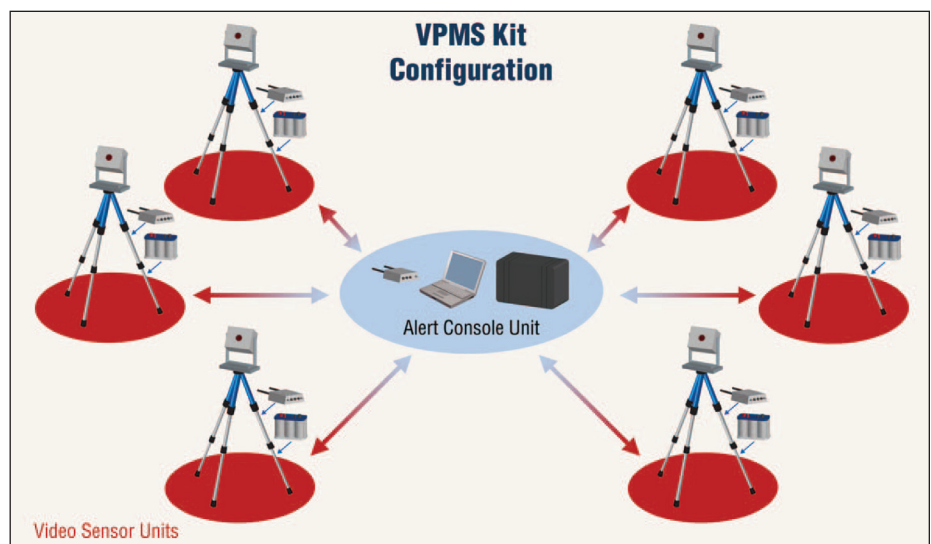
## VPMS Specifications

### Video Sensor Unit Components

- IDN PTZ video camera
- 3e-525Ve-4 Wireless Video Server with embedded video analytics
- Ethernet video server
- Rugged tripod
- Battery (optional)
- Battery charger (optional)
- Waterproof case

### Alert Console Unit Components

- Rugged notebook computer
- 3e-525A-3 wireless AP / bridge
- Video Management System with rules and alert management
- 3eTI secure client software
- Waterproof case



## About 3eTI

3eTI is a leading provider of wireless networking solutions that are completely customized to a client's security challenges, for video, data and voice communication needs. We design and manufacture secure Wi-Fi products, including mesh network, access point, bridge, and client infrastructure products, wired systems and security software for military, industrial and first responders.

3eTI specializes in secure government wireless broadband solutions and has achieved many firsts in technology, including the first validated FIPS 140-2 Layer 2 access point. In 2006, 3eTI became the **first** wireless supplier to receive National Information Assurance Partnership (NIAP) Evaluation Assurance Level 2 Common Criteria Validation for its wireless LAN access point and client software.