



Mobile Multi-sensor Perimeter Monitoring System

# PAVLA

The system provides an early warning capability for perimeter monitoring of key military areas or other high value assets against biological aerosol attack.

Standalone remote stations are equipped with aerosol detectors, panoramic camera, GPS receiver, wind speed and direction sensor, temperature sensors, infrared sensors, seismic sensors and standard interfaces for additional sensors connection.

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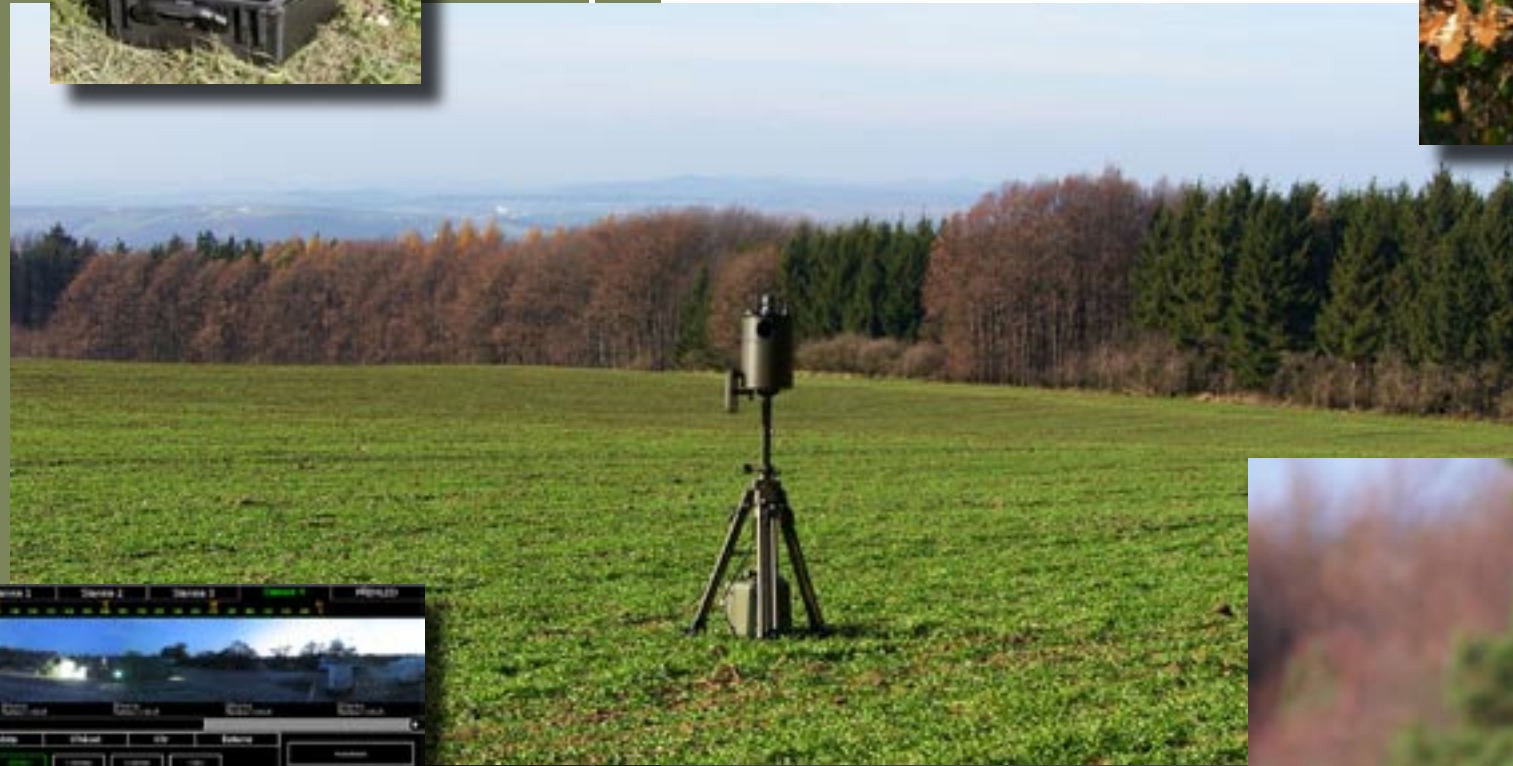
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analyzes the surrounding atmosphere by collecting aerosol samples and searches for a broad range of biological agent particles

**Features:**

- Multiple battery-powered remote stations communicate with central radio station through high-speed wireless data links
- Remote stations use high-gain directional antennas
- Central radio station employs single omni-directional antenna
- Remote station counts aerosol particles in 2 to 10 micron range
- Remote station includes a panoramic camera offering 360° live view of locality
- Panoramic camera provides high dynamic range and low noise in night scenes
- The camera contains no moving parts
- Built-in anemometer measures wind speed and direction
- The anemometer works without any moving parts
- Two temperature sensors measure both internal and outdoor temperature
- Independent passive infrared and seismic sensors with omni-directional wireless link can be used with each remote station
- Built-in GPS receiver in each remote station is used to locate it and to display its position within operator's application
- Standalone battery pack allows remote station operation for approximately 12 hours
- Multiple operator workstations can be connected to central radio station
- Operator workstation provides easy to use graphical interface
- Central radio station uses omni-directional antenna for connection to multiple remote stations
- Standalone battery pack allows radio station operation for approximately 24 hours
- Mobile operator workstation in ruggedized case is also available
- Operator workstation offers optional Internet connectivity
- Solar battery charger for charging of battery packs is provided with the whole system



**PAVLA**  
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**Target Application:**

- Military bases
- Hospitals
- Ports and airports
- Public buildings and facilities
- Convention centers
- Sports stadiums