

◆ INTELLIGENT CAMERA SYSTEM WITH GUNSHOT RECOGNITION

◆ INTEGRATED REAL-TIME SOLUTIONS

Sound & Optics Systems has developed a unique security platform that provides integrated real-time solutions for a variety of criminal and threat challenges. The Sentri II system is a neural stimuli blended technology product that is able to “hear” a sound, recognize it, and focus a camera on the sound source in less than a second. Within seconds, a command center or local patrol vehicle is able to view the incident in progress, as well as zoom in on possible suspects or other activity.

This unique leading edge sound recognition logic combined with a camera and other optional detection devices, such as seismic or vapor sensors, creates an intelligent surveillance system that will improve patrol effectiveness, significantly aid in crime reduction and increase officer safety. Sentri II also provides investigation assistance and prosecution evidence.

Potential Applications

The Sentri II system can provide significant benefits to many potential application areas including:

- Law Enforcement
- First Responders
- Border Patrol
- Sea Ports
- Parking Facilities
- Educational Facilities
- Private Security
- Forest Service
- Commercial
- Perimeter Surveillance

For each of these application areas, the Sentri II system:

- Provides real-time, pre-determined threat recognition for specified enforcement and/or protection areas
- Extends the capacity of current force by providing ‘on-site’ monitoring, reporting and recording of designated events such as gunshot or seismic occurrence
- Enhances responder effectiveness by providing on-going, real-time, on-scene information
- Serves as key witness with ‘photographic memory’ of criminal events and suspects

Product Description

The Sentri II System is an enclosed weatherproof platform that contains acoustical recognition detection capabilities, a high performance security camera, wired or wireless communications, an alert system, operating software and other optional equipment and sensors. When a pre-determined sound (e.g. gunshot) is recognized, typically in less than ¼ second, the camera automatically moves/zooms to the



sound source. It then sends an alert signal, other pertinent information and live video images to the Command/Control Center, patrol unit or PDA while capturing and displaying information about the incident in real-time.

This provides law enforcement or other personnel critical and timely information, assisting them in making rapid decisions and enabling them to quickly deploy appropriate response personnel and activate public safety protocols.

Sentri II units can be mounted in networked groups or as single units, to existing poles or structures in problem locations such as a high crime neighborhood, docks and piers, potential drug trafficking and border crossing trails or singly in targeted areas such as warehouses, office complexes, retail facilities, government buildings and critical infrastructure. The units are easily moved from one location to another.

Key Product Features

- Acoustical sound recognition module with internal microphone array
- Hi-density PTZ color camera with remote control capabilities
- Sound recognition criteria and system updates via remote upload
- Internal video backup recorder with remote download – Optional
- Wired or wireless (IEEE 802.11) communication transmission capabilities
- Wireless transceiver units with optional wired capabilities
- Weather resistant, light-weight housing; bullet resistant enclosure optional
- Automatic GPS location and event mapping system
- Internal sensor and detection diagnostics, remote monitoring capability
- Activation alert light with remote On/Off control
- Emergency back-up power sufficient to complete power-down sequence
- Easy installation, flexible deployment with relocation options

Technical Specifications

Housing Construction	Aluminum case, welded and sealed. Top door access.
Operating Conditions	-50° to 175°F (-20° to 80°C). Internal temperature control system
Dimensions	24" x 18" x 11" (triangular), 35 lb
Input Voltage	120/240 VAC, 50/60 Hz, 3 A
Signal I/O	Wireless IEEE 802.11, Hard wired Ethernet RJ45, RS232 or optical (customer specified frequency)
Signal format	Compressed mpeg format up to 25 (PAL)/30 (NTSC) fps or motion-JPEG video, as well as JPEG still images.
Camera	Pelco, Axis or customer specified
Remote Access	Yes
Security	128-bit data encryption. External Tamper Sensor and alarm