



MOTION DETECTION AND VIRTUAL PERIMETERS

IN CONJUNCTION WITH HAWKEYE

Increasingly municipalities, universities and corporations are installing and utilizing Pan-Tilt-Zoom (PTZ) Cameras for the purposes of crime prevention, public safety and theft deterrence. Some of these same organizations are also installing Event Detection equipment such as Motion Detection Systems. For the most part, Event Detection Systems work independently from the Video Management Systems that control the PTZ Camera Networks and the Network Digital Video Recorder (DVR) Systems that store the collected video imagery.

Pelican Technologies developed the HAWKEYE system to automatically command PTZ Cameras to respond to geospatial specific events detected by Event Detection Systems such as Motion Detectors and Virtual Perimeters.

HAWKEYE responds to events as they occur and actions the connected cameras instantly.

Simultaneously, HAWKEYE informs connected Video Management Systems of the camera action (to alert operators) and connected DVR systems to provide a bookmark that can be used to audit and review the event at a later date.

HAWKEYE is a hardware and software combination that ties into existing network infrastructure to process and act on externally detected events. Included in the system is a graphical user interface and mapping application to assist in setting up HAWKEYE, a set of data interfaces that allow HAWKEYE to communicate with common Event Detection systems and common Video Management Systems and comprehensive user documentation that details the setup and tuning options available to configure HAWKEYE to each unique environment.

HAWKEYE plugs into your existing facility hardware; there is no need to replace your existing Cameras, Video Management Systems, DVR or Event Detection Systems.

In studies performed by law enforcement groups and private security firms, the average time required for a human operator to focus a camera onto the scene of a detected event is measured in minutes. HAWKEYE performs the same function in less than a second. The difference is:

- the difference between a quick apprehension and a lengthy investigation;
- the difference between a digital video record and eyewitness memory;
- the difference between certainty and "reasonable doubt."

HAWKEYE enables municipalities to reduce the time required to collect valuable evidence and increases convictions. HAWKEYE allows corporations and private organizations to provide to law enforcement officials information that is critical to investigations and limits risk and liability exposure when the unforeseen occurs.

Those cities, companies and universities that invest in the HAWKEYE system will see an immediate ROI in the form of decreased vandalism, lowered liability risk, increased order and overall cleaner public environments.

Event detection alone is an incomplete assessment of activities. Once an event has been detected, video monitoring and recording is essential for an accurate assessment of risk and impact. Pelican Technologies has introduced HAWKEYE to tie together Event Detection and Video Management Systems into a coherent and automated system.



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HAWKEYE WITH MOTION DETECTION AND VIRTUAL PERIMETERS

A motion detector is a device that contains a physical mechanism or electronic sensor that quantifies motion that can be either integrated with or connected to other devices that alert the user of the presence of a moving object within the field of view. They're a vital component of comprehensive security systems, for both homes and businesses. Advancements in laser technologies has led to the development of Virtual Perimeter systems that can determine when and where a person, animal or other obstruction has crossed a predefined threshold.

Both Motion and Virtual Perimeters can be combined with other subsystems to produce specific action when a violation is detected. These subsystems may be:

- Sound device that produces an alarm
- Image recording device
- Automated lighting control system
- External alarm notification system

Many modern motion detectors and virtual perimeters use a combination of different technologies to detect when either motion occurs or when a threshold has been crossed. Combinations of different techniques allow sensors to be reactive, deterministic and use very little power.

Increasingly corporations are installing and utilizing motion and virtual perimeter sensors for the purposes of early warning on trespassing and security violations. In an age of corporate espionage, eco-terrorism and other politically motivated attacks, companies need the tools that these sensors provide; benefits include limiting risk, preventing financial loss through vandalism or worse and securing restricted areas.

Do your cameras seek out trespassers?

Exterior or perimeter motion sensors combined with automated lighting controls can deliver motion detection events to HAWKEYE. Assuming that the GPS position of the motion detection field is known and configured, HAWKEYE will automatically spin the cameras in the vicinity of the motion alarm to seek onto the offenders' location, alert camera operators that a camera action has occurred and bookmark the DVR video feed to allow for efficient review of the video associated with the incident at a later date. These implementations are typically more aligned with the needs of secure facilities and campuses than urban environments.



For a demonstration of HAWKEYE or to inquire about our tiered pricing, reseller, distributor and installer discounts, or to simply learn more about Pelican Technologies, please contact us at (866)-274-9483 or visit us online at www.technopelican.com or follow us on twitter (@technopelican).

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