



## INTRODUCTION AND SYSTEM OVERVIEW

### DOES YOUR SURVEILLANCE SYSTEM FOLLOW EVENTS AS THEY HAPPEN?

Increasingly cities, universities and corporations are installing Pan-Tilt-Zoom (PTZ) and fixed Cameras for the purposes of crime prevention, public safety and theft deterrence.

Pelican Technologies developed the HawkEye system to automatically command PTZ Cameras to respond to geospatial specific events detected by Event Detection Systems like:

- **Motion and Virtual Perimeter Alarms**
- **RFID Asset or Personnel Tracking**
- **Gunshot and Explosion Detection Systems**
- **Automatic License Plate Recognition**
- **Graffiti Detection**

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 Network Digital Video Recorders 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 mapping application to assist in setup, a set of data interfaces that allow communication with Event Detection systems and Video Management Systems and comprehensive 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.

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. At the same time it limits risk and liability exposure when the unforeseen occurs and helps to prevent intentional damaging activities.

Those organizations that invest in the HAWKEYE system will see an immediate ROI in the form of decreased crime, greater situational awareness, lowered liability, increased order and overall safer public and private environments.

Event detection alone is incomplete. 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 Systems and Video Management Systems into a coherent and automated system.

HAWKEYE provides a scalable, easy to use and easy to deploy system to automatically redirect the view area of cameras when external events are determined to be of interest. This solution is intended for campuses and urban environments that require automated real-time PTZ camera automation.



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[www.technopelican.com/HawkEye](http://www.technopelican.com/HawkEye)



## HOW INTELLIGENT IS YOUR EXISTING CAMERA NETWORK?

The HawkEye Graphical User Interface application is used not just in initial setup but also to fine-tune the operation of HawkEye and make adjustments to the system as time goes by.

The Administration GUI is a critical element when:

- Moving cameras from location to location
- Determining the placement of new cameras
- Installing additional cameras
- Removing cameras from the network
- Installing additional Event Detection systems
- Tuning camera action areas
- Setting the priorities of detected events
- Setting system wide defaults

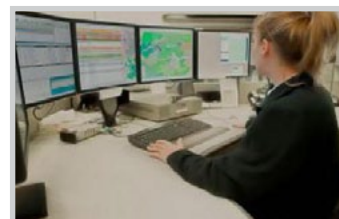
HAWKEYE uses an absolute positioning system to define a set of geospatial polygons around each camera. These polygons are used to configure how HAWKEYE directs camera motion. This dataset can be imported from or exported to a GIS database.

Each camera in the HAWKEYE database has its own associated set of geospatial polygons; as a result, multiple cameras may have polygons that overlap each other. This overlapping action system adds to the robust nature of HAWKEYE's operational logic: A single event may cause multiple cameras to respond.

HAWKEYE takes camera actions one step further: if an area can't be directly seen by a camera (like a parking lot), the camera can be told to focus to an alternate location (the entrance or exit of the lot) when an event occurs within the area.

Dispatch Areas and Redirection Areas: by defining specific areas for each camera in to these two categories, HAWKEYE allows a robust and flexible logic to be constructed for each unique environment in which it is installed. As a result, HAWKEYE can fit into any environment to action multiple cameras when an event is detected and in doing so provide critical situational awareness from multiple vantage points, simultaneously.

HAWKEYE can be connected to (and take direction from) multiple Event Detection Systems. As such it is possible that multiple event detection systems may try to utilize a single camera in opposite directions at the same time. HAWKEYE makes use of a patented Priority Action Queue to ensure that each camera is always focused onto the most important event occurring.



*HawkEye Camera Automation assisting with a critical incident.*

Input Ports and Output Ports connect HAWKEYE to external systems. These ports are configured to communicate XML via TCP/IP. Configurational Data Transformation Scripts and custom protocol modules allow HawkEye to connect to any existing Event Detection System, Computer Aided Dispatch, Video Management System, Network Digital Video Recorder, Access Control or any other system that allows external connectivity.

HAWKEYE servers can be clustered and linked to provide scalable support for large numbers of cameras, monitors, DVRs and Event Detection Systems. Parallel Event Processing of the cluster servers ensures the fastest possible response time when events occur.

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](http://www.technopelican.com) or follow us on twitter (@technopelican).

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