



GRAFFITI DETECTION

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 Graffiti 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 Graffiti Detection Systems.

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 GRAFFITI DETECTION

Until recently, graffiti abatement techniques were ineffective. Typically these systems were comprised of materials that resist spray-paint combined with digital imagery to catalogue the location and signature styles of each piece of graffiti in an attempt to discern patterns and likely suspects.

In 2008, United States law enforcement professionals determined:

- **Graffiti is a \$22 billion annual problem**
- **Graffiti is likely to happen in all types of communities**
- **Graffiti threatens the livelihood of businesses**
- **Urban graffiti leads to the decline of commercial centers**

New technology combines advanced heuristics with chemical sensors to detect graffiti events as they occur. Graffiti sensors alert dispatchers within seconds of the first mark being made and thus allowing very little time for the perpetrator to get away from the scene. Typically these systems are small and cost effective solutions with multiple sensor types to provide reliable, accurate and precise event detection. New chemical sensors are designed to seamlessly integrate into any existing alarm, event detection and notification infrastructure alerting connected systems and operators immediately.

HAWKEYE is able to take event detection input from graffiti detection systems. When one of these systems detects a graffiti event, the GPS position of the sensor is communicated to HAWKEYE. When HAWKEYE receives event detection information, it spins all of the PTZ cameras in the vicinity of the graffiti detector onto the vandal, alerts dispatchers and camera operators that a camera action has occurred and bookmarks the DVR video feed to allow for efficient review of the video associated with the incident at a later date.

Do your cameras automatically respond to vandals?

Identifying vandals and catching them in the act is the only way to prevent costly graffiti. HAWKEYE allows you to respond quickly and efficiently, stop the criminal behavior before their work is complete and supplies you with the video evidence needed to prosecute the offenders to the fullest extent possible.



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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