

Market View: Enhancing Security for Municipalities

The Challenge

Municipalities face a broad range of security threats including terrorism, weapons, robbery, assaults and vandalism. However, with multiple stakeholders, open spaces, programs and facilities; municipalities are presented with a challenge as to how best to ensure that public safety and security of residents are maintained at the appropriate level without compromising quality of life or affecting daily routine.

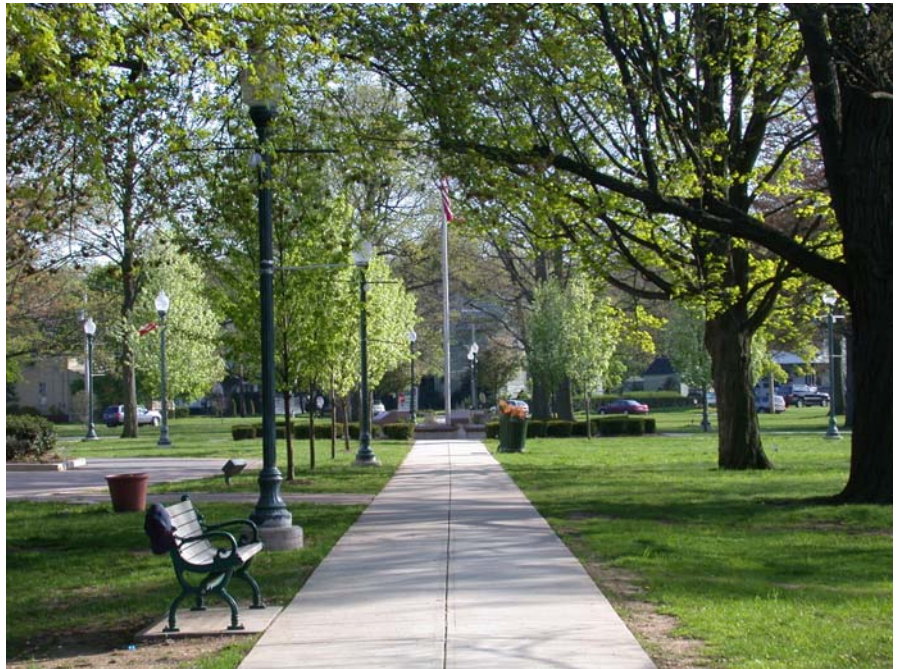
Overcoming the various types of threats that exist begins with awareness, educating the community, schools, emergency responders and municipal workers alike and developing strategies for how the various groups can work together. This type of holistic approach combined with technology based solutions elevates a community security program from being reactive to one that is both preventative and proactive.

Risk Mitigation

Visual Defence's core technology and security management software modules provide municipalities with comprehensive risk mitigation abilities. The technology enables municipalities to incorporate their own pre-defined "best-practice" procedures, removing decision-making requirements from the operators thereby reducing the risk associated with human errors. It also provides a framework to converge the multiple elements that make up a complete city-wide solution bringing all relevant information into one central system to support security response. This reduces risk and time associated with gathering and analyzing data from multiple sources and puts first responders in a position to react appropriately.

Flexibility. Scalability. Usability.

As a network based solution, the Visual Defence technology has the



flexibility to combine an unlimited number of systems located throughout a city in both open and closed spaces, the scalability to manage multiple cameras and edge devices and the usability to enhance not only security but also quality of life for city residents.

Technology Overview

Command and Control Center (3C)

3C is a common management platform providing municipalities with a customizable and scalable solution to converge all of their physical security subsystems into one easy-to-manage security management system.

3C is an intuitive system comprised of four modules; an event management and response module, a mapping module, a virtual matrix module for video management, and an intercom management module.

Event Management and Response

The event management and response module displays notification of an alarm indicating alarm type, description and priority. The associated predefined procedure for responding to the particular alarm also appears on this screen to guide the operator through the required response actions.

Mapping

The multi-level mapping module is designed to respond to alarms (e.g. fire alarms) from the event management system, instantly 'popping up' a map with an alarm icon to indicate the location of the alarm. The operator also has visual representation of nearby cameras and can double click to display for fast alarm verification.

Video Management

The Virtual Matrix System (VMS) allows operators to view both live and recorded video from multiple sources such as analogue cameras, IP cameras and digital video recorders from any vendor.

Video Analytics

The VMS seamlessly integrates with video analytics to detect elements such as motion detection, directional movement or people counting.

Wireless Video

The Visual Defence Eye is a designed for streaming video over narrow bandwidths to allow the ability to access video data on a wide variety of devices including laptops, tablet PCs, rugged PDAs, stationary PCs as well as a range of cellular phones,

Intercom Management System (IMS)

The IMS is a standards-based VoIP Intercom solution. IMS integrates voice, image and data into one cohesive solution allowing for the ability to communicate across vast distances over the network.

Network Solutions

A variety of network options exist, including fixed, VPN and mesh. Mesh networks are an ideal solution for open areas as they provide better bandwidth and enhanced reliability than other types of networks.

Key Management Software

Providing both the ability to easily distribute keys and the ability to easily track and monitor keys, the Key Management Solution enables easy-to-manage facility access

Technology Applications for Municipalities

Emergency First Response

Provide emergency workers with PDAs for viewing video from relevant cameras when responding to an emergency allowing for earlier scene survey and evaluation leading to faster, more informed response.

Public Cameras

Place cameras in high-risk areas to deter violence and illegal activity. Use the municipal cameras as a

revenue generating tool by allowing retail stores and municipal institutions like libraries, civic centers, and sports facilities the ability to access cameras based on priority rights.

Parks and Open Spaces

Install a mesh network throughout open areas and install IP cameras and IP help phones or code blue devices on light poles to deter crime and increase the sense of safety for residents.

Public Transportation

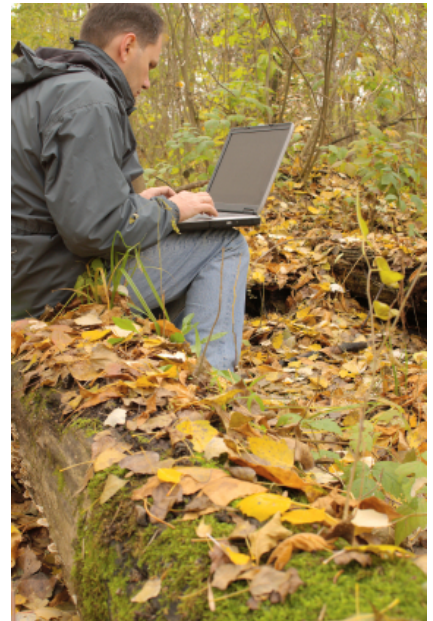
Enhance safety and improve operations, communications and service quality through the integration of multiple streams of data from systems like mobile cameras and video recorders, Automatic Vehicle Locating (AVL), passenger counting, Computer Aided Dispatch (CAD), voice communication systems, scheduling software, vehicle diagnostics and driver panic alarms.

Public Housing

Implement a key management solution to allow maintenance workers the ability to access the buildings without compromising security for the residents or future building access.

Services for Residents

The security infrastructure can be used for non-security applications,



providing revenue generating opportunities and enhanced quality of life for city residents.

Traffic Information

Allow residents the ability to access video from municipal traffic cameras on their cell phones so they can monitor their commute to work route.

Internet Hot Spots

Use a mesh network to provide residents the ability to stay 'connected' throughout the city with internet hotspots.