



## Using Portable Automated Surveillance to Solve Theft, Vandalism and Security Challenges

### What You Will Learn

Public safety organizations need cost-effective ways to address outdoor security challenges. New advances in rapidly deployable surveillance cameras and intruder detection accuracy make it possible to increase security and responsiveness even in remote areas that lack infrastructure. And new funding options and grant programs are available to provide equipment where it is needed most.

By using rapidly deployed surveillance technology to protect assets and prevent perimeter breaches, public safety and security professionals can:

- Stop vandalism and theft no matter how remote the location
- Secure remote crime “hot spots” and high-risk areas under surveillance by law enforcement, border patrol, and Drug Enforcement Administration personnel
- Gain an earlier awareness of events, enabling preemptive response
- Quickly lock down large outdoor scenes around hazardous events, e.g., fire, haz-mat, train, plane accidents, etc.
- Enforce perimeter detection for SWAT, sniper and active shooter operations
- Provide long-range covert surveillance
- Enhance collaboration among multiple responder agencies for a coordinated response

This white paper summarizes the advantages that public safety agencies gain through the use of rapidly deployed intelligent surveillance technology, explains advances in detection accuracy, and presents the funding options and application guidance for organizations to obtain equipment.

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## Value of Rapidly Deployed Surveillance for Public Safety

Automated surveillance cameras that can be easily transported to quickly establish a secure perimeter solves several public safety challenges:

- **Increase surveillance effectiveness:** Most surveillance tasks are tedious and lack activity of interest. Automated video offloads the burden of detecting events from human operators, and ensures “eyes on until hands on” capability.
- **Know where the intrusion occurs:** Precise location information about a target enables a swift response. Automated surveillance cameras can display GPS-based information about the location, size, and velocity of a detected threat, allowing officials to direct force appropriately.
- **See what would be missed:** In the real world, neither ordinary surveillance cameras nor the human eye can detect certain events because of poor lighting, shadows, clutter like shrubbery, light reflection, ripples in the water, and so on. Advanced detection cameras employ filters to determine actual threats from false alarms.
- **Rapid deployment for short-term operations:** Tactical surveillance operations must be quickly setup and torn down, with little or training needed. Pre-configured surveillance kits that interoperate with existing public safety systems can be set up in minutes.
- **Flexible Deployment:** Many surveillance operations are in remote locations and areas where infrastructure for setup may be difficult to provide (e.g. power, communications, pole mounts, etc.). Battery and solar power options as well as wireless communications are necessary options for remote monitoring of areas that are impractical to patrol in person, such as construction sites.
- **Lowered Costs:** Remotely deployed surveillance solutions reduce costs and can be mounted on existing infrastructure, vehicles, or tripods.
- **Meet 24/7 and day/night security requirements:** Many covert surveillance tasks require long-distance detection and take place after dark. Some cameras are designed for reliable operation in low-light, and are available in thermal models for effective night-time operations.
- **Providing an automated force multiplier:** Automated detection software performs better than people for monotonous surveillance tasks. People perform better for more complex decision making, such as determining the difference between a small animal and a person. By supplementing the force with automated video surveillance, law-enforcement agencies can deploy people and machines for what they each do best.

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## SightLogix Outdoor Video Surveillance Solution

Specially designed for portable, perimeter and outdoor area surveillance, SightLogix Rapid Deployment Kits meet the requirements for effective outdoor tactical operations.

The SightLogix Rapid Deployment Kit includes long-range, outdoor-ready intelligent surveillance SightSensor cameras (wired or wireless), a ruggedized laptop for viewing video and GPS-based target data, packaged in a portable case that one person can transport. The system can be deployed in minutes to provide reliable, actionable intelligence for all mobile, remote, and ad hoc security operations.



### Built for First Responders

SightLogix' automated detection cameras can view distant areas – up to thousands of feet – and can see areas beyond the fence line, providing law enforcement with additional time to intercept intruders before a perimeter breach occurs. Combining long-distance video with GPS-based target tracking lets security personnel know the precise location of an intruder, providing critical time to delay, deter and detect a crime.

SightSensor video detection sensors are the only outdoor video cameras to have multiple built-in Digital Signal Processors (DSPs) that virtually eliminate nuisance alarms. One DSP is dedicated exclusively to filtering out camera motion. Another one filters out non-salient motion such as foliage, fast-moving clouds, and water reflections. The result in an automated surveillance system that enables operators to see what they would otherwise miss, accurately report target location, and allow responders to apply force appropriately.

For these reasons, the United States Department of Homeland Security selected the SightLogix Rapid Deployment Kit for the 2008 and 2009 Commercial Equipment Direct Assistance Program (CEDAP). CEDAP is part of a coordinated effort to strengthen the nation's level of preparedness with pre-emptive and post-incident management security solutions for state and local public safety jurisdictions.

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## Section Two: Guide to DHS Grants and Programs

This section is designed to help explain the various grant programs that are available to help you acquire SightLogix equipment via state and federal agencies.

### US State and Local Agencies

The Department of Homeland Security provides funding through numerous programs to help state and local agencies as well as authorities and private sector partners procure SightLogix products. You can review the current list of available grants by visiting: <http://www.fema.gov/government/grant/index.shtm>.

To seek funding from any of these programs, work with your local or state point of contact. Each state has a designated point of contact that oversees the dispensing of homeland security funds. You can determine your particular state's point of contact by visiting: <http://www.dhs.gov/xgovt/grants/index.shtm>.

It is important to provide ample justification for the purchase of SightLogix products in requesting funding. You must be prepared to explain:

- The operational use of the equipment to reduce the threat (the likelihood of an attack occurring), vulnerability and the consequences (relative exposure and expected impact of an attack) within your community.
- The use of equipment to support daily operations during natural emergencies and/or daily operations involving first responders.
- How this equipment contributes in protecting and safeguarding first responders through situational awareness in detecting, deterring, responding to, and recovering from natural and terrorist related incidents.

#### Example Justification:

SightLogix rapid deployment surveillance equipment will be employed as a preventative measure to detect and deter terrorist-related incidents in and around a jurisdiction's critical infrastructure and/or key assets [provide information related to tiered facilities and key resources, e.g., baseball stadium, airports, bus terminals, rail stations, chemical plants, food processing plants, utility assets (water/electric/gas/pipelines, etc.)], where long range outdoor surveillance may be necessary or serve as a deterrent.

Roadways and rail crossings/yards where hazardous materials and/or commuters pass through a jurisdiction, or even schools and universities, which could be incorporated considering these areas are also targets of terrorism. Based upon the mobility and rapid deployment of this equipment, surveillance of these critical sites can be easily moved from site to site in a strategic and random manner, disrupting terrorist related planning operations. This equipment can also

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be utilized once a credible threat is revealed or when a specific location requires long range surveillance capabilities to uncover terrorist activities.

Additionally, after a significant or catastrophic terrorist event the need to lockdown large outdoor scenes is accomplished through deployment of the SightLogix rapid deployment surveillance equipment. Besides having established a virtual perimeter, the rapid deployment surveillance equipment allows for the tracking of resources within the boundaries of that perimeter, leading to enhanced situational awareness at and around these events. Once deployed, other responders, e.g., fire, medical, health, environmental, emergency management officials, etc., can seamlessly insert themselves into command and control of the scene based upon the scenario and their incident management plans.

Prior to, during and after events/incidents requiring surveillance, perimeter detection and scene monitoring, the ability to lockdown large outdoor scenes is accomplished by deploying the rapid deployment surveillance equipment. Besides having established a virtual perimeter, the rapid deployment surveillance equipment allows for the tracking of resources within the boundaries of that perimeter, leading to enhanced situational awareness at and around events/incidents. Once deployed, other responders, e.g., fire, medical, health, environmental, emergency management officials, etc., can seamlessly insert themselves into command and control of the scene based upon the incident and their incident management plans and protocols.

These incidents, both large and small, occur on a daily basis where outdoor scene monitoring or establishment of a perimeter is required. Examples include:

- Serious accidents
- Fire scenes
- Field searches
- VIP details
- Sniper or hostage
- Large planned events
- Floods
- Road closures
- SWAT operations
- Downed wires
- Crime suppression operations
- Haz-mat scenes
- Active shooter

Lastly, by utilizing this equipment for events, the recorded video will serve as a “hot-wash” or post event review, seeking to improve upon response efficiencies and operational best practices. These daily event recordings will also serve as training materials for future response and deployment scenarios whereby personnel will have the added capability to view the situation geospatially, leading to a greater learning experience in dissecting response protocols.

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## **Operation Stonegarden – Border Security**

Operation Stonegarden grants are designed to enhance law enforcement preparedness and operational readiness along the borders of the United States to deter violence, enforce immigration laws, and combat illegal trafficking.

For 2009, Operation Stonegarden's risk-based allocation formula directs more funding to key areas along the Southwest US border while allowing local law enforcement greater flexibility to combat border crime.

For more information on Operation Stonegarden, visit <http://www.fema.gov/government/grant/opsg/index.shtm>.

## **US Communities Contract**

U.S. Communities is a nationwide strategic sourcing program designed by public purchasing professionals for use by local and state government agencies, school districts (K-12), higher education, and nonprofits.

The mission is to provide qualified agencies unparalleled value in public procurement. U.S. Communities is a nonprofit government purchasing cooperative that assists public agencies in reducing the cost of purchased goods and services through pooling the purchasing power of public agencies nationwide. This is accomplished through competitively solicited contracts for quality products through lead public agencies.

For more information about obtaining SightLogix equipment through US Communities, contact a SightLogix Grants Team Member at [grants@Sightlogix.com](mailto:grants@Sightlogix.com) or 609.951.0008, x109.

## **GSA Contract**

SightLogix products are available for purchase from the General Services Administration (GSA), simplifying procurement for federal agencies and other customers with authorization to purchase from the Federal Supply System.

SightLogix products are easy to use and easy to deploy, and have been designed to meet the US Department of Homeland Security's mission to improve the nation's readiness, response and recovery capabilities for both natural and man-made emergencies.

For more information about purchasing SightLogix through the GSA contract, please visit <http://www.sightlogix.com/gsa.html>.

## **SightLogix Grant Assistance**

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SightLogix can assist you with your grant application questions. To learn more about funding options available to purchase SightLogix equipment, contact a SightLogix Grants Team Member at [grants@Sightlogix.com](mailto:grants@Sightlogix.com).

## Conclusion

Automated outdoor video surveillance that can be easily transported solves many challenges for the law enforcement and first responder community. SightLogix systems are designed for reliable outdoor security regardless of the available infrastructure or technical capacity of the individual responder, and are well-suited to meet the unique needs of the public safety community.

To read more about SightLogix, visit: [www.sightlogix.com](http://www.sightlogix.com).

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