

BUSINESS BRIEF

Digital Security and Surveillance
Internet of Things Solutions



Gain situational intelligence anywhere with outdoor security from V5 Systems

Built with Intel and Dell* technology, the V5 Systems self-powered outdoor security and computing platform helps you improve safety, deploy security anywhere, and save time and money.



Challenge

Communities and organizations everywhere are looking for ways to improve safety

This is especially important in urban areas, since the United Nations estimates that nearly 70% of the world's population, over 6 billion people, will live in cities by 2050.¹ Crime rates are expected to rise as the population grows,² putting intense pressure on both public and private organizations to protect their people. Increasingly, keeping people safe is about improving protection beyond the four walls of a building—across city streets, parks, campuses, plazas, parking facilities, and other outdoor spaces.

With traditional surveillance systems, monitoring outdoor areas is challenging

Providing security coverage for outdoor environments can be difficult. Many outdoor areas do not have access to a fixed power source or internet connectivity, which are requirements for most surveillance systems.

Extending power and connectivity to an area often involves expensive trenching and time-consuming permitting—so deployment can take months or years. Fixed installations also lack the flexibility to support one-time events such as rallies, sporting events and concerts.

These requirements greatly limit the areas that can be covered, resulting in blind spots and leaving key locations exposed. Organizations looking to minimize security risks need a solution that overcomes these barriers and allows them to expand security coverage to wherever it is needed.

V5 Systems* enables organizations to enhance security in outdoor environments with an innovative, portable, self-powered outdoor security solution

V5 Systems* eliminates traditional obstacles to protecting outdoor areas, making it possible to quickly deploy security in places without power or internet access and gain ongoing insight. This empowers organizations to improve safety and security in ways that were never before possible.

“ An industrial platform that customers can quickly deploy in areas without power or internet access, which has never before been possible. ”

Business Drivers and Desired Outcomes

Business Drivers

From watching over city streets and stadiums to monitoring construction sites and agricultural areas, keeping people (and assets) safe is an ongoing priority.

At the same time, limitations such as time, budget, and location can get in the way of making valuable security enhancements. Organizations are looking for ways to address these limitations and better protect the people and places they serve.

With the advent of innovative solutions from V5 Systems, Dell* and Intel, organizations can extend security to areas that were previously hard to cover, reducing risks, saving time and money, and ultimately improving safety.

Desired Outcomes:

- Improve the safety of public spaces
- Increase crime detection and suspect apprehension
- Reduce the cost of planning, permitting, and deploying security solutions
- Relocate surveillance easily and cost-effectively
- Protect against the risk of reputation damage due to security incidents
- Leverage analytics to surface key security insights

Solution Overview

V5 Systems* delivers self-powered outdoor security solutions that provide situational intelligence anywhere. Units can be quickly and affordably installed in any outdoor location, are independent of the power grid, and connect wirelessly. They are easy to use, and easy to move when needs change.

There are two primary offerings – the Portable Security Unit* (PSU) for organizations implementing a new solution, and the Camera Adaptive Platform* (CAP) for those looking to extend an existing solution. The PSU* is a preconfigured, all-in-one, turnkey unit, and the CAP* integrates easily with existing video management hardware and software.

Both units support rapid time to deployment, easy data-device connectivity, real-time acoustic and video alerts, and built-in edge analytics and artificial intelligence. They are also easily configurable and customizable to suit varying needs.

Solutions from V5 Systems* include an Intel-based gateway, which offers manageability, security, connectivity, and the performance needed for edge analytics. They also leverage Intel storage technology, providing the flexibility to store data at the edge or send it to a back-end server or the cloud.

Solution Components

Both units

- V5 Systems power system and video camera
- Dell* Edge Gateway 5000 / 3000 series
- Intel Atom® processors
- Intel® Solid State Drives (SSDs)

V5 Systems Portable Security Unit (PSU)

- Multi-sensor technology (chemical, acoustic and more)
- V5 Systems software

V5 Systems Camera Adaptive Platform (CAP)

- Works with 3rd-party cameras
- Works with 3rd-party VMS systems



Business Benefits

With outdoor security solutions from V5 Systems, organizations are well-equipped to enhance their surveillance approach. This unlocks a powerful combination of benefits:



Improve safety

- Gain in-depth awareness
- Respond quickly with real-time alerts
- Monitor more than just motion



Deploy anywhere

- Extend surveillance into hard-to-reach areas
- Adapt to changing security needs



Save time and money

- Deploy in minutes
- Integrate with existing systems
- Eliminate costly power, trenching, cable, cloud and storage expenses

Proven Results

The City of Hayward, California needed to expand surveillance in areas without power infrastructure. By implementing the V5 Systems solar-powered PSU, the city:

- Saved \$172,500 in trenching cost for the first 10-unit deployment³
- Gained recurring savings every time they move a unit to another location around the city
- Experienced a 61% drop in calls for service and 60% drop in crime³

San Jose State University also needed to extend campus security in areas without power access. The school implemented V5 Systems solar-powered PSU and Gunshot Sensor, delivering:

- Increased flexibility, as cameras can be deployed where and when needed
- Reduced cost and man-hours required for deployment

Where to Get More Information

For details on the solution, visit www.intel.com/dellv5.

To learn more about V5 Systems, visit www.v5systems.us.

To learn more about Dell* IoT offerings and the Dell IoT Gateway*, visit <http://www.dell.com/iot>.

To learn more about Intel security solutions, visit the [Digital Security and Surveillance page](#).

1. United Nations, [World Urbanization Prospects](#), 2014.

2. Journal of Criminal Justice, [Establishing the statistical relationship between population size and UCR crime rate: Its impact and implications](#), 2004.

3. V5 Systems estimates.

*Other names and brands may be claimed as the property of others

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