



SOLUTION PROFILE

## Solutions for Public Safety and Smart Communities

### Intelligent, Cloud-Based Software and Edge Capture From Hitachi Data Systems

Over the past few years, the majority of public and private organizations have implemented a diverse set of systems to protect their assets, premises and people. With this multitude of disparate technologies come increased challenges in effectively managing large amounts of critical information. Today's systems must be integrated in a way that allows you to easily make informed decisions in a timely manner. Hitachi Visualization is the first truly integrated, end-to-end solution built specifically for the smart community.

### Overview

Hitachi Visualization is a comprehensive, state-of-the-art, 2-part solution. It consists of Hitachi Visualization Platform (HVP) intelligent edge-capture devices and Hitachi Visualization Suite (HVS), an integrated cloud and mobile software platform. HVS enables correlation of disparate data and video systems in a user-friendly, award-winning Web interface. HVS provides real-time access to all data via selectable layers, such as: gunshot detection, license-plate recognition (LPR), video-management system, access control, computer-aided dispatch (CAD) or 911 systems, radioactive isotope detection, radar and so forth (see Figure 1).

Hitachi Visualization is a highly scalable solution used by leading government agencies and forward-thinking public safety agencies around the world. The solution integrates with all major law enforcement systems, including 3rd-party video-management systems, CAD or 911 systems, license-plate readers, gunshot detection, and 3rd-party sensors, to name a few. Automated camera selection and notifications allow you to monitor by exception while searchable databases and point-and-click viewing allow you to proactively navigate your systems with ease. This solution, which gathers actionable intelligence from a "single plane of glass," is the one law enforcement and emergency management have been waiting for: It enables citywide, campus and mobile video surveillance and public and private entity integration.

## Hitachi Visualization Platform

Edge-capture devices, called the Hitachi Visualization Platform, come in camera pods, video-management platforms and gateways.

Camera pods enable edge recording and analytics capabilities with built-in 4G LTE, Wi-Fi, GPS and optional wireless point-to-point (PtP) and copper connectivity. These devices integrate with LPR, gunshot detection and CAD or 911 systems.

The video management platform is a turnkey hardware platform that is optimized for video-management-system processing and storage. It incorporates both storage and compute along with redundancy and fault tolerance for 3rd-party video management systems.

This platform's gateways can scale from an integrated, single solid-state device to high-end performance computing environments, allowing the platform to scale from single cameras to thousands of simultaneous streams. Gateways economically integrate with private-entity cameras.

All HVP devices are managed centrally using our award-winning cloud-based visualization software (HVS).

## Hitachi Visualization Suite

Hitachi Visualization Suite is a comprehensive software application that provides a common operating picture for full situational awareness. It supports incident management and investigative features, and connects with a wide range of security assets combined with powerful workflow and analytic capabilities. All that is required to access this information is a Web browser, a user account and an Internet connection. It also includes a mobile application. HVS architecture includes 3 major components: visualization, analytics and workflow.

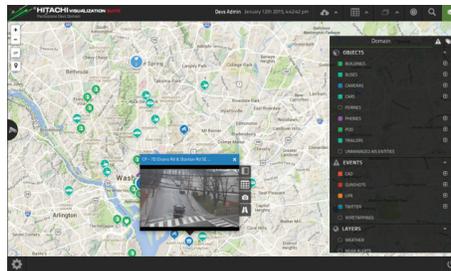


Figure 1. Hitachi Visualization consolidates disparate data for full situational awareness.

End users can visualize alerts from sensors, cameras and just about any public safety and 3rd-party system. All video and data are represented on the map as icons: one click and you're viewing a live video stream or a gunshot detection alarm report (see Figure 1).

HVS analytic modules work as a data-mining engine to gather and even predict where and when crime can occur: They ingest real-time feed from open source, crime databases and online social media applications.

HVS workflow modules integrate 3rd-party video management software with critical sensors and systems to provide access control, video analytics, CAD and 911, GPS and mapping.

## Mobile Application

The optional mobile application supports both iOS and Android devices (phones and tablets). In addition to supporting all the major browser applications, the device's camera can be used for video ingest. Stream video from the device and view in a browser anywhere, and save it as evidence.

## Conclusion

Hitachi Visualization, using intelligent, cloud-based software and edge-capture devices, provides communities with a solution to

## Solve Community Issues

### Public Safety

Public safety officials can enhance community communication, gain situational awareness and respond faster with Hitachi Visualization. They can direct cameras to events, push camera streams to workstations, and make video accessible to the police mobile data terminals.

### Campus Education Environments

At schools and universities, the No. 1 priority is to provide a safe learning environment. HVS can link buildings within a campus and their respective access control, video, call boxes and emergency notification systems to provide full situational awareness during events.

### Transportation

Railways, buses, sea ports, airports, traffic and parking can add an extra level of security by having live video accessible to public safety officials. Hitachi Visualization can provide critical data about the operation and overall health of the transportation machinery and infrastructure.

### Utilities

Multiple sensors and assets from various locations can be integrated into a common control platform with Hitachi Visualization to view and detect breaches of critical assets. The video can be transferred to first responders to make them better prepared.

enhance public safety and better manage critical situations, both in real time and proactively. It offers end-to-end situational awareness and surveillance in a Web-based, secure manner and is available for public, private and hybrid clouds.

## Hitachi Data Systems

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