

To meet your video surveillance, mobile and smart city communications challenges you need trustworthy devices at the edge. Hitachi Visualization Platform intelligent edge-capture devices allow you to rapidly deploy and manage robust communication networks across wide areas.

Hitachi Visualization Platform

Collect Vital Security Information With Intelligent Edge-Capture Devices From Hitachi Insight Group

Edge-capture devices come in several form factors, including pole-mounted enclosures with high-definition cameras, edge recording and analytics. Advanced and intelligent routers support bandwidth optimization and management. Gateways enable private-entity video integration, and ruggedized network video recorders (NVRs) are built to handle the rigorous demands of moving vehicles in the transit industry (see Table 1). Additionally, video management platforms are available. These turnkey hardware platforms are optimized for video management and storage.

Camera Pods

HVP camera pods are integrated camera and communication devices, which are



Figure 1. HVP 600 With Thermoelectric Cooler

TABLE 1. HVP CAMERA PODS

Category or Model	HVP 200	HVP 400	HVP 600
Enclosure	Fixed box-style, high-strength, UL94 Certified, vandal-resistant polycarbonate housing with fans (IP66).	High-strength, vandal-resistant polycarbonate housing with fans (IP66).	High-strength, vandal-resistant polycarbonate housing, completely sealed and thermoelectric cooled. Adds 520 cubic inches (IP66).
Cameras	Hitachi high-definition (HD), 3MP (megapixels), H.264 fixed 4mm lens, .07 lux, Smart IR, wide dynamic range (WDR).	Hitachi HD, 3MP, H.264 fixed or 2MP PTZ (pan-tilt-zoom) with 20x min. optical zoom and .005 lux, WDR, endless pan, smart tracking and analytics.	Hitachi HD, 3MP, H.264 fixed or 2MP PTZ with 20x min. optical zoom and .005 lux, WDR, endless pan, smart tracking and analytics.
Edge Storage	Onboard storage for up to 60 days onto 1TB Hybrid SSD, and redundant archiving with 128GB SD card, smart video analytics snapshots and alerting features.	SD card with 32GB, up to 7 days recording, and optional mini-NAS for additional storage.	Intel NVR running Microsoft® Windows® 8, standard 500GB solid-state drive (SSD) with optional 1TB SSD. Up to 21 days recording.
Communications	On-Demand 4G LTE ¹ , Data Usage Statistics, WIFI as WAN, WIFI, Remote Power Management.	Edge router with 4G LTE ¹ and/or wireless point-to-point or PtP (optional) or Ethernet WAN. Includes high and low Power over Ethernet (PoE).	Edge router with 4G LTE ¹ and/or wireless PtP (optional) or Ethernet WAN. Includes high and low PoE.
Power	100/240 VAC 50/60Hz - Standardized on 12VDC for Simple Solar Conversion.	110/230 VAC with 30 watts of power available for cameras and communications.	110/230 VAC with 30 watts of power available for cameras and communications.

easily deployed on city poles and building infrastructure. These pods are ideal for rapid deployment in any environment (hot, cold, humid) as well as remote locations (see example in Figure 1). Each pod includes high-definition, high-megapixel cameras

with superior capabilities, even in low-light conditions. With built-in Wi-Fi, GPS and 4G/LTE communications, remote video surveillance is available just about anywhere. The pods also support alternative

¹4G LTE service not provided

connectivity options, including fiber, copper, wireless mesh, and point-to-point.

All HVP camera pods include:

- Rugged thermoplastic IP66 enclosures.
- High-definition 3MP (2048 × 1536) megapixel fixed or 2MP PTZ cameras.
- Edge recording and video analytics.
- Built-in 4G LTE, Wi-Fi and GPS.
- Intelligent routing, bonding and failover.
- High and low Power over Ethernet (PoE) ports for external radios and cameras².
- Smart board for remote monitoring and management².
- Cloud-managed bandwidth monitoring and configuration.
- Multiple mounting options.
- Support for third-party cameras: Axis, Sony and others.

All of the HVP devices can be managed centrally using Hitachi Visualization Suite (HVS) software (see Figure 2). With HVS, an administrator can view bandwidth usage, cellular signal, monitor temperature, power input and draw, and reboot ports on the embedded switch. In addition, all of the edge router configurations can be viewed and modified from a single management interface.

Gateways

The HVP gateway is an intelligent edge device that is used to integrate third-party video systems. It performs transcoding for optimal cloud live streaming and recording and acts as a data ingest service for any external sensor data. The gateway also includes a powerful workflow to act on any sensor or alarm data. There are three primary form factors, depending upon the number of simultaneous live streams anticipated from the source systems.

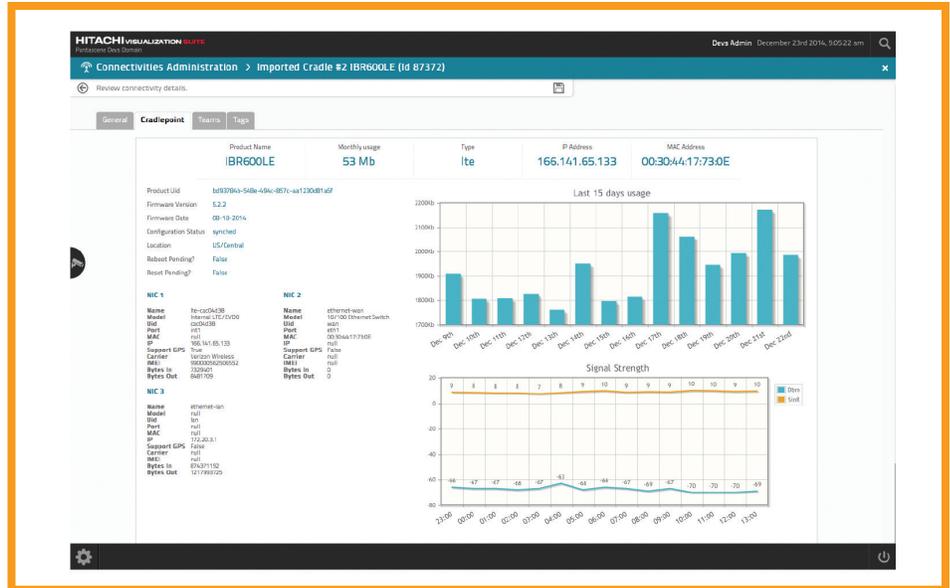


Figure 2. HVS Management Interface for HVP Devices

At the low end, we offer an affordable gateway with small form factor that is ideal for small private entity integrations (see Figure 3). This unit comes with all solid-state components with an Intel i7 processor at the core running Windows 8. It has a fanless design with heat-sink and hard drive up to 500GB in size.

The gateways are also offered in a ruggedized version, which is shock and vibration resistant, along with a built-in 16 channel analog encoder. Lastly, a 1U rack-mount compact form factor version with quad-core processors is available for more demanding deployments.

Hitachi Visualization

Hitachi Insight Group finds ways to use The Internet of Things to bring together people and machines to help make more informed decisions and improve outcomes. Hitachi Visualization Platform with Hitachi



Figure 3. HVP 100 Gateway

Visualization Suite provides public safety organizations with a comprehensive end-to-end solution for improved situational awareness. By combining intelligence at the edge with intuitive, map-based cloud software for both video and event sources, Hitachi Visualization allows for the integration of disparate public safety and sensor systems to create actionable intelligence. Hitachi Visualization breaks down the barriers that traditionally plague older physical security information management (PSIM) architectures by using the ubiquitous nature of the Internet and software as a service (SaaS) deployment model.

²Available only on some models



Hitachi Insight Group
Global Headquarters
 3315 Scott Boulevard, 4th Floor
 Santa Clara, CA 95054-3103 USA
www.HitachiInsightGroup.com
community.HDS.com/community/IoT

Regional Contact Information
Americas: +1 877 765 1832
International: +1 408 471 4999
info@HitachiInsightGroup.com