

# Provide security and operational intelligence at the edge with Hitachi Smart Camera and Hitachi Edge Gateway for Video.

## DATASHEET

## Smart Edge Devices for Video

### Collect Vital Information With Intelligent Edge Devices

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.

### Hitachi Smart Cameras

Hitachi Smart Cameras are video intelligence platforms with integrated camera and communication devices, which are easily deployed on city poles and building infrastructure (see Figure 1). These pods are ideal for rapid deployment in any environment (hot, cold, humid) as well as remote locations. 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 connectivity options, including fiber, copper, wireless mesh and point-to-point.

TABLE 1. HITACHI SMART CAMERAS

Category or Model	Smart Camera 200	Smart Camera 600	Smart Camera 800
<b>Enclosure</b>	Fixed box-style, high-strength, UL94 certified, vandal-resistant polycarbonate housing with fans (IP66).	High-strength, vandal-resistant polycarbonate housing, completely sealed and thermoelectric cooled. Adds 520 cubic inches (IP66).	High-strength, vandal-resistant polycarbonate housing, completely sealed and thermoelectric cooled. Adds 520 cubic inches (IP66).
<b>Cameras</b>	Hitachi high-definition (HD), 3MP (megapixels), H.264 fixed 4mm lens, .07 lux, smart infrared (IR), wide dynamic range (WDR).	Hitachi HD, 3MP, H.264 fixed or 2MP pan-tilt-zoom (PTZ) with 20x min. optical zoom and .005 lux, WDR, endless pan, smart tracking and analytics.	Up to 3 fixed cameras and PTZ cameras.
<b>Edge Storage</b>	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.	Intel NUC running Microsoft Windows 8, standard 1TB solid-state drive (SSD). Up to 21 days recording.	Intel NUC running Microsoft Windows 8, standard 1TB SSD. Up to 21 days recording.
<b>Communications</b>	On-demand 4G LTE <sup>1</sup> , data usage statistics, Wi-Fi as WAN, Wi-Fi, remote power management.	Edge router with 4G LTE <sup>1</sup> and/or wireless picture transfer protocol (PtP) (optional) or Ethernet WAN. Includes high and low power over Ethernet (PoE).	Edge router with 4G LTE <sup>1</sup> and/or wireless PtP (optional) or Ethernet WAN. Includes high and low PoE.
<b>Power</b>	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.

All Smart Cameras 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 cameras.<sup>2</sup>

<sup>1</sup> 4G LTE service not provided

<sup>2</sup> Available only on some models

- Smart board for remote monitoring and management.
- Cloud-managed bandwidth monitoring and configuration.
- Multiple mounting options.
- Support for third-party cameras: Axis, Sony and others.

All of the edge 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.

## Hitachi Edge Gateway for Video

Edge Gateway for Video is an intelligent edge device that is used to integrate third-party video systems (see Figure 3). 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. Edge Gateway for Video comes with all solid-state components with an Intel i7 processor at the core running Microsoft Windows 8. It has a fanless design with heat sink and hard drive or drives up to 2TB size.

## Smart Spaces and Video Intelligence

[Hitachi Smart Spaces and Video Intelligence](#) is an end-to-end, intelligent and adaptable solution for cities, airports, retail, transportation, campuses and more. By providing intelligence for urban, commercial and industrial areas, Smart Spaces and Video Intelligence helps organizations become more effective, efficient and safer.



Figure 1. Hitachi Smart Cameras

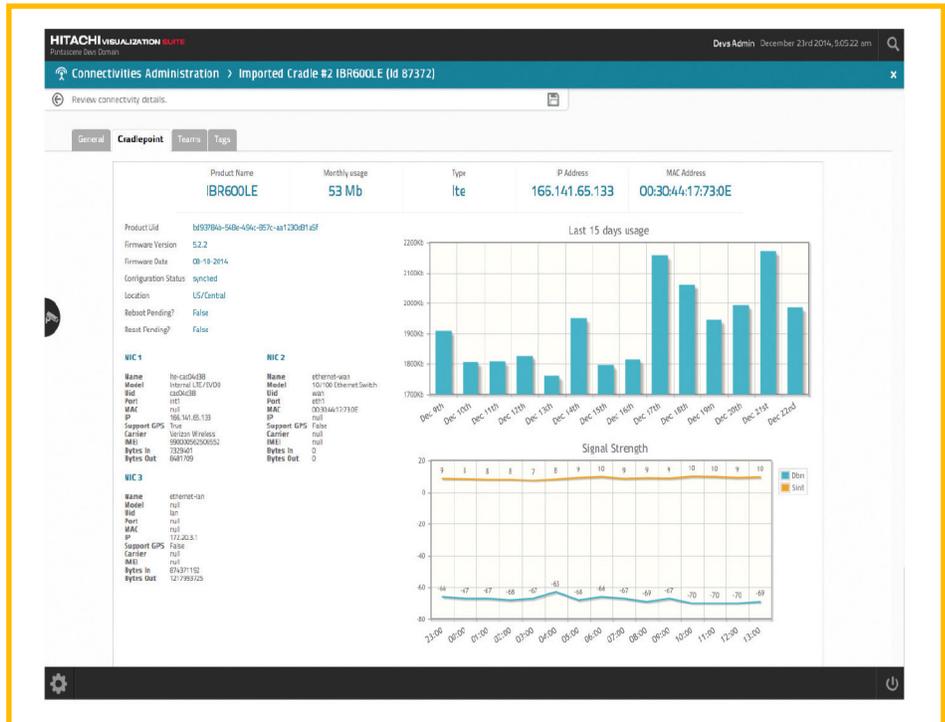


Figure 2. HVS Management Interface for Smart Cameras



Figure 3. Hitachi Edge Gateway for Video



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