



Cisco Video Surveillance Encoding Server

Cisco Video Surveillance Product Portfolio

Cisco® offers network-centric video surveillance software and hardware that supports video transmission, monitoring, recording, and management. Cisco video surveillance solutions work in unison with the advanced features and functions of the IP network infrastructure—switches, routers, and other network security devices—to enable secure, policy-based access to live or recorded video. With support for many third-party video surveillance cameras, encoders, and applications, Cisco video surveillance solutions allows customers to build best-in-class video surveillance systems that optimize cost, performance, and capability.

Cisco video surveillance products are deployed within the Cisco Intelligent Converged Environment architecture. Through this architecture, video can be accessed at any time from any place, enabling real-time incident response, investigation, and resolution. As an extension of the Cisco Self-Defending Network, the Cisco Intelligent Converged Environment enables customers to use existing investments in video surveillance and physical security while enhancing the safety of people and protection of assets. The open, standards-based Cisco infrastructure enables the deployment and control of new security applications and maximizes the value of live and recorded video.

Problems Solved

- Reduces rack space with a single compact encoding and digital recording platform
- Simplifies administration of recording and archival of video components
- Optimizes recorded video quality by mixing MJPEG and MPEG-4 encoding format on a per-video-channel in a single recording platform



Cisco Video Surveillance Encoding Server Overview

The Cisco Video Surveillance Encoding Server is an all-in-one appliance that encodes, distributes, manages, and archives digital video feeds. Each server encodes up to 64 channels and provides up to 12 TB of storage. It offers the power and flexibility to meet a diverse range of video surveillance requirements and is cost-effective and simple to install.

Combine multiple video codecs in a single Encoding Server, including MJPEG and MPEG-4. Manage bandwidth over each part of your IT network to complement capacity and protect other applications. Create redundant archives of events or loops and automatically store them in a secure location. With the addition of the Cisco Video Surveillance Operations Manager, the Encoding Server also provides administrators and operators with multiple Web-based consoles to configure, manage, display, and control video.

The benefits of this cost-effective solution include powerful, streamlined video systems management and scalable support, so that you can add cameras and viewers as your requirements evolve. As an all-in-one appliance, it can be quickly deployed. The Encoding Server is a perfect retrofit solution, providing a lower total cost of ownership.

Cisco Video Surveillance Encoding Server

Encoding Server Features

Powerful video management

- Flexibility to use a broad array of analog cameras and IP cameras
- Simultaneous MJPEG and MPEG-4 encoding
- Low-latency video with high-quality images
- CIF, 2CIF, and 4CIF, up to 30 fps
- PTZ and alarm inputs
- Motion detection
- Scalable deployment with multiple sites, cameras, users, and storage

Flexible archiving

- Archives at different frame rate, duration, and location
- Efficient redundant multi-site archiving that conserves bandwidth
- Loop- and event-tagged video recording and event export (video clip) capabilities
- Ability to connect to external storage



Encoding Server Specifications

- Intel Dual-Core Pentium 4
- 3U rack unit
- 1 GB RAM
- Up to 12 TB internal storage
- 10/100 or dual Gigabit Ethernet interface
- SUSE Linux Enterprise Server (SLES) Version 9 Service Pack 3 or SLES Version 10

PC Specifications for Viewing Video

- 3.0 GHz Intel Pentium 4
- 1 GB RAM
- 10/100 Ethernet adaptor
- Windows XP and Internet Explorer 6 or 7
- DirectX 9.0c
- nVidia or ATI AGP graphics adaptor with 128 MB RAM

Encoding Server Video Specifications

Compression	MJPEG, MPEG-4
Video channels	Up to 64 channels
Resolution	CIF (352 x 240), 2CIF (720 x 240), 4CIF (720 x 480)
Compression throughput (16 channels)	CIF = 480 fps (16 x 30 fps); 2CIF = 240 fps (16 x 15 fps); 4CIF = 120 fps (16 x 7.5 fps)
Alarm inputs	Up to 16
PTZ (RS-485)	Up to 2 channels, addressable
Motion detection	Yes
Options	IP camera and external storage connection

Why Cisco

Cisco technologies and convergence expertise help businesses and organizations improve their return on investment and lower their total cost of ownership. With vast experience in digital video, including video surveillance, Cisco engineers understand how to use the power of an IP network to deliver new, innovative capabilities in a highly scalable and secure manner. As a trusted advisor and networked physical security user, Cisco has helped forward-thinking organizations maximize the value of their systems, personnel, and applications for more than 20 years. With deployments in transportation, airports, military, education, municipalities, retail, and more, the Cisco Video Surveillance Manager products meets the uncompromising needs of today's safety and security professionals.

Contact your Cisco account team or Cisco Physical Security Authorized Technology Provider today for a personal demonstration, and to learn more about how Cisco can help you ensure the safety and security of people and assets while unlocking the true value of your video system.

For more information see: www.cisco.com/go/videosurveillance or Call 1-866-428-9596.