

SV-3200 Network Security Appliance

Powered by Genetec

Enterprise Class H.264 Video Recording with
Advanced Management Capabilities

IONODES

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GENETEC



Highlights

- Experience innovative time-saving features, complete reliability and the industry's most intuitive user interface with Genetec's Omnicast.
- Benefit from broadcast quality video on every input using a combination of JPEG and H.264 compression at 4CIF 30 fps.
- Save valuable storage space for your video archives by using H.264 high profile compression.
- Customize your live streaming and recording scenarios by creating up to three different compression profiles per video stream.
- Apply your preferred storage strategy by opting for internal (HDD) and/or external network storage options.
- Ensure high availability through the use of redundant power supplies and network connections.
- View multiple live and recorded H.264 compressed video at full resolution and frame rate via the on-board accelerated HDMI interface.

IONODES' SV-3200 network security appliance is powered by Genetec's innovative IP video surveillance solution, Omnicast, bringing widely distributed retail, finance, government, education, corporate and commercial facilities an instant solution for heightened level of operational efficiency. Combined with the renowned flexibility and reliability of Omnicast, the SV-3200 offers customers the distinct advantages of a cutting-edge hybrid NVR platform.

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Powered by Genetec's Omnicast software, the SV-3200 appliance can be seamlessly integrated to any new or existing Omnicast system, making this instant out-of-the-box platform the most advanced hybrid NVR solution on the market.

Unmatched Scalability

Omnicast's impressive Federation feature allows independent SV-3200 appliances to be connected and managed as though they were a unified system. Unlike any other hybrid DVR platform available, unbounded scalability and growth is possible as needs arise.

Modular by Design

Built-in hot-swappable expansion ports allow the SV-3200 to host up to four video encoder modules for a total of up to 16 analog video channels.

High-Quality Video Compression

Using the H.264 high profile compression codec (MPEG4 Part 10), the SV-3200 can reduce storage requirements by over 50% when compared to a compliant MPEG4 SP codec. It also supports MJPEG compression profiles.

Triple-Encoding

The SV-3200's powerful video encoding engine can generate up to three different compression profiles per analog video input, allowing it to adapt to various streaming and recording environments. For example, one high-quality stream could be used for recording, while two lower-quality streams could be used simultaneously to serve various live clients.

IP Camera Support

The SV-3200 can manage configuration, recording and streaming of up to 32 IP cameras and customers are given the freedom to choose their preferred hardware thanks to Omnicast's pioneering open architecture. Direct connectivity of up to eight IP cameras is supported via a built-in eight port Ethernet switch, eliminating the need for any additional external switch.

Flexible Storage Options

To ensure important data is never lost, the SV-3200 supports "recording at the edge" scenarios through its dual internal SATA storage drives. For more advanced storage scenarios and longer retention times, the appliance can also be connected to external network storage.

Reliable and Secure

The feature-rich SV-3200 appliance provides high-availability by offering redundant power supplies, redundant gigabit network connections and support for fault-tolerant RAID5 external storage. Security and tamper protection is also ensured through authenticated access, encrypted communication channels and digital video signatures.



IONODES SV-3200 Network Security Appliance Specifications

Standard / Integrated Interfaces

Network	Dual 10/100/1000 Base-T Ethernet ports half/full duplex, auto-sensing, RJ-45 Additional eight 10/100 Base-T Ethernet ports for IP camera connectivity
USB	Four USB ports (Mouse, keyboard, expansion)
HDMI output	High-definition display for administrative interface and local viewing and playback (up to 1080p resolution)
COM Port 1	RS-232 port for interfacing alarm equipment or POS terminals via a DB-9 connector
COM Port 2	Configurable RS-232/422/485 port for PTZ support via terminal strip

Video Encoder Module Interfaces

Video In	Four analog video inputs: NTSC or PAL
Audio In	Single line level analog audio input
Audio Out	Single line level analog audio output
Alarm In	Four dry contacts
Relay Out	Single output relay contact

Video Compression

Standards	H.264 high, main and baseline profiles Motion JPEG
Data Rate	64 kbps – 6 Mbps per channel (H.264 requires less than 2 Mbps @ 4CIF/30fps)
Resolutions	4CIF/D1, 2CIF, 2/3 D1, 1/2 D1, CIF, QCIF
Delay	< 165 ms when H.264 video profile configured for low latency

Audio Compression

Standard	G.711
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Storage

Internal	Dual internal SATA HDD (2.5-in or 3.5-in) (Capacity of up to 3.0 TB)
External	Network Attached Storage (NAS), iSCSI

Protocols

Networking	IPv4/v6, UDP, TCP, IGMP, ICMP, ARP, DHCP, DNS, RTP, HTTP, RTSP, HTTPS, Bonjour, NTP, FTP
Security	Password protection Basic / digest authentication Digital signatures

General Features

Software	Embedded Omnicast IP video surveillance software
System Monitoring	Video input signals, disk subsystem, fans, power supplies, temperature, network monitor
Access Control	SSL, basic and digest authentication
Media Recording	Digitally signed media recording
Software Update	Fault-tolerant, remote accessible
Video Analytics	Video motion detection

Mechanical / Environmental

Dimensions	Height: 1.75 in / 4.45 cm Width: 17 in / 43.18 cm Depth: 14 in / 35.56 cm
Enclosure	Fits into a standard 19-in rack
Input Voltage	Dual 12V DC
Operating Temperature	32°F - 122° F / 0°C - 50°C
Certifications	FCC, UL, CE

