



M-JPEG 4-channel Video Server

Transform Analog Video Into Images for Live Access Over Intranet or Internet

The DVS-104 is a MJPEG technology-based video server designed for professional IP surveillance application. It transmits up to four analog video streams over Ethernet or modem and provides additional video outputs for connection of analog monitors or traditional multiplexers. With 4-channel analog-to-digital image transmission, this video server provides a highly cost-effective device ideal for installation of a multi-camera surveillance system.

Save Money & Get Benefits of Digital World

You have invested time and money to install an analog surveillance system in your building, with analog cameras, multiplexers, time-lapse recorders, cabling and control room. There are drawbacks such as poor quality video, worn out tapes, video recorders that constantly need servicing, and no possibility to access live images when you are outside the building. By adding a DVS-104 video server, you can turn your cameras into a digital system and have images stored on a hard disk at a remote location for convenience and security purposes. You don't need to buy and change video tapes, or service the video recorder. Digital storage also reduces the risk of image degradation and provides quick and easy search capabilities.

Protect Previous Investments

The DVS-104 integrates easily with your existing analog CCTV (closed circuit television) system. You can get all the digital benefits without scrapping your investment in an analog system.

Remote Access

The DVS-104 digitizes analog video signals and distributes digital images directly over an IP-based network, effectively turning your analog cameras into network cameras and enables you to view live images from a Web browser. The DVS-104

allows you to remotely view live digital images derived from your analog cameras at any time, from any location using a networked computer. You can check on alarms while on the road or from the convenience of your own home. Images from an alarm event could be easily distributed via computer networks to many people in different locations for further examination.

Easy to Install & Use

With the DVS-104, you can have a professional surveillance application up and running in minutes. It is easy to install. Simply plug your analog cameras into the server and images can be transmitted via a LAN, DSL, or analog modem. All that is needed on the receiving end is a networked computer with a Web browser. With a network computer is already in place, you save on the infrastructure cost.

Connectable to Control Equipment

Through the built-in RS-232 serial ports, you can control equipment such as Pan/Tilt/Zoom cameras. Inputs can be used to trigger the server to start transmitting images. The DVS-104 can also be connected to special cameras such as super sensitive black/white cameras, miniature cameras or microscope cameras.

Key Features

- Motion-JPEG high-quality video server
- Stand-alone with built-in web server for network interface
- High-performance, fully customized motion JPEG compression engine
- Analog BNC video input, digital Ethernet or analog modem output
- 4 analog camera inputs, 4 analog video loop-through outputs
- Video stream 30/25 frames/sec for single input, 6 frames/sec for Quad
- Connectable to local area network, broadband Internet or analog modem Internet
- Configurable maximum bandwidth
- Automatic remote image retrieval and storage via e-mail and FTP with event triggering
- Remote PTZ camera control
- Connectable to sensor and alarm equipment
- Built-in real-time, non-Windows operating system that does away with Internet virus threats
- Personal viewing settings for each user
- Built-in motion detection with user-configurable percentage and sensitivity levels
- Remote access of images via FTP or e-mail
- Password protection and administrated privilege
- Powerful, easy-to-use Windows-based remote video surveillance software provided
- Easy wizard to guide through installation and application

Hardware

RAM

16M bytes SDRAM

ROM

2M bytes FLASH ROM

Video Connectors

- Input: 4 BNC connectors for cameras
- 75-ohm terminator for each channel
- Output: 4 BNC connectors for loop-through video outputs

Serial Port

- 2 DB-9 RS-232 interfaces, max. 115200bps
- 1 RS-485 interface to share with the first RS-232 for PTZ camera control
- Second RS-232 can be used for external modem

Auxiliary Power

- Input: 50 to 16000Hz
- Output: more than 60dB

Diagnostic LEDs

- 3 LEDs for network activity, link speed, half/full duplex
- 3 LEDs for system power, heartbeat, and network interface

General I/O

- 4 opto-isolated sensor inputs, max. 12VDC 50mA
- 2 relay outputs with NC/NO, max. 24VDC 1A/125VAC 0.5A

Network (Ethernet)

10/100BASE-TX port

Firmware

Operating System

Industry-standard real-time O.S. pSOS+

Network Protocols

- Standard TCP/IP protocol stack
- HTTP, SMTP, FTP, Telnet, NTP, DNS, DHCP

Service

- HTTP web server
- FTP server and client
- SMTP client
- Telnet server

Network Feature

Adjustable bandwidth limit

Video Algorithm

- JPEG compression
- Motion JPEG with boundary information

Image size

- NTSC: 176 x 112, 352 x 240, 704 x 480
- PAL: 176 x 144, 352 x 288, 704 x 576

Video Quality

5 levels of Normal, Standard, Good, Detailed, Excellent

Video Features

- NTSC: 30 frames/second
- PAL: 25 frames/second
- Flip and mirror for installation
- Built-in motion detection with sensitivity and percentage

Software

Viewing System Requirements

- Viewer: Web browser with server push capability, ActiveX control plug-in for Microsoft Internet Explorer
- Protocol: Internet TCP/IP protocol
- Operating system: Windows 98 SE, ME, NT 4.0, 2000, XP
- Browser: Internet Explorer 4.0 or above, Netscape Communicator 4.0 or above

Bundled Surveillance Software Features

- Operates in Windows environment
- Four-channel software DVR
- Full screen display
- Remote management and configuration
- Simultaneous real-time monitoring and recording
- 3 types of recording supported: event-triggered, scheduled, manual

- Warning provided as hard disk space approaching limit
- Scheduled backup
- Remote control of general I/O devices
- Flash speed time and event searching on playback
- Fast/slow shuttle playback
- Simultaneous display of multiple events on single screen for preview
- AVI format export

Physical & Environmental

Power

Switching power supply

Input

100 to 240VAC, 50/60Hz, 0.4A

Output

12VDC, 1.5A

Power Consumption

7.8 watts (max.)

Dimensions

216.7 mm (L) x 193.7 mm (W) x 44.3 mm (H) (device only)

Weight

970 grams (device only)

Operating Temperature

0° to 65 °C (32° to 122 °F)

Storage Temperature

-40° to 70 °C (-14° to 158 °F)

Humidity

95% RH (max.)

Safety

- FCC Class B
- CE Class B
- CNS

Package Includes

- DVS-104 Video Server device
- Surveillance software (on CD ROM)
- Installer (Windows IP address installation tool) (on CD ROM)
- Upgrade wizard (Windows assistant tool for firmware upgrade) (on CD ROM)
- RS-232 cable with DB-9 connectors on both ends
- RS-232 cable with DB-9 and PS/2 connectors
- External power adapter



Ordering Information

DVS-104 M-JPEG 4-Channel Video Server



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