



— DVS-301

M-JPEG 1-Channel Video Server

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

The DVS-301 is a high-performance M-JPEG video server designed for professional surveillance applications. It can network an analog camera -- a cost-effective single-box solution for transmitting digital video over your company network or the Internet.

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-301, you can turn your camera 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 video tapes, 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-301 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-301 digitizes analog video signals and distributes digital images directly over an IP-based network, effectively turning your analog camera into a network camera and enables you to view live images from a Web browser. The

DVS-301 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-301, you can have a professional surveillance application up and running in minutes. It is easy to install. Simply plug an analog camera 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. Usually, an IP-based computer network is already in place, which saves on infrastructure costs.

Connectable to Control Equipment

Through a built-in RS-232 serial port, you can control equipment such as Pan/Tilt/Zoom cameras. Inputs can be used to trigger the server to start transmitting images. The DVS-301 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
- 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
- General I/O for external sensor and alarm
- 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

DVS-301

Technical Specifications

Video Server

Hardware

RAM

16M bytes SDRAM

ROM

2M bytes FLASH ROM

Input Video Connector

1 BNC connector for camera

Serial Port

- 1 DB-9 RS-232 (max. 115200bps)
- 1 RS-485 (to share with RS-232 for PTZ camera control)
- RS-232 can be used with external modem

Auxiliary Power

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

Diagnostic LEDs

- Network activity
- Heartbeat
- Network interface

General I/O

- 1 opto-isolated sensor input, max. 12VDC 50mA
- 1 relay output 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: 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 Supply

Switching power supply

Input Power

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

Output Power

12VDC, 1.5A

Power Consumption

4.2 watts (max.)

Dimensions

122.9 mm (L) x 72.3 mm (W) x 50 mm (H) (device only)

Weight

340 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-301 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-301 M-JPEG 1-Channel Video Server



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