

# MV401EXP™ Encoder Series

Full resolution H.264 and Windows Media® 9 Video Encoding /Streaming Systems



- Embedded, power-on-and-forget technology for dedicated encoding and streaming
- MV401EXP-H264 encodes live H.264 video at full D1 resolution and up to 4 channels of MPEG AAC audio
- MV401EXP-WM9 encodes multiple-resolution video and stereo audio into Windows Media 9 Professional format
- Automated streaming on startup - trouble-free, unattended operation
- Recent configuration protection mode available for reliable, optimal performance
- Low-profile rack-mounted design for reduced cost-per-channel
- Remote operation/configuration/status monitoring via LAN/Internet
- Interfaces to most analog and digital A/V equipment
- Supports variety of resolutions, bitrates and frame rates
- Adaptive video noise reduction filter and de-interlacing hardware
- Broadcast D1 stream delivery to remote multi-format decoder (MV410EXP)
- Low-latency unicast and multicast streaming of H.264/AAC encoding unit
- Multiple WM9 encoders can interface to Windows 2003 Media Server for content distribution/archiving



No more tradeoffs! Now you can reliably deliver outstanding video quality even with bandwidth constraints. **MV401EXP-H264** and **MV401EXP-WM9** broadcast A/V encoders are the state-of-the-art multimedia content encoding devices designed for live streaming over the Internet or satellite links. The MV401EXP-H264 model is tuned up for the newest H.264 video and MPEG4 AAC audio formats, while the MV401EXP-WM9 model is using the advanced Windows Media 9 Professional compression. Based on solid-state media design, MV401EXP-H264 and MV401EXP-WM9 systems consistently perform A/V encoding and streaming day after day. In addition to remote configuration GUI, each supports IPMI technology for remote monitoring of internal temperature and voltage sensors inside the box. Automatic Watchdog function ensures that a system is reboots and resumes operation quickly in case of an unexpected software problem.

The combination of **MV401EXP** series encoders and a **MV410EXP** multi-format decoder is the ideal solution for low-bandwidth long distance digital A/V transmission. The MV401EXP-H264 offers increased video and audio compression without sacrifice in quality. It supports RTP unicast and UDP multicast streaming right out of the box with a much lower latency. All these advantages allow users of MV401EXP-H264 to transmit more channels over the same satellite bandwidth than currently used for MPEG2! This not only increases channel capacity but also saves time and money.

The MV401EXP-WM9 model is capable of live content streaming in conjunction with Windows 2003 Media Server. This combination makes it possible to deliver encoded content at a different bitrate and quality to a potentially unlimited audience over the Internet. The client side will automatically pick up the proper video stream based on the available network bandwidth.

A companion product, MV410EXP is a dedicated multi-format broadcast quality A/V decoding device used on the receiving end. It is capable of converting compressed video and audio contents obtained from the network link to digital or analog signal suitable for studio monitors, VTRs, switches and other professional equipment.

# MV401EXP-H264

# MV401EXP-WM9

## MV401EXP-H264 Encoder

- Ultra slim profile 1U rack mount case
- Automatic streaming after power on
- H.264 (Main profile) Video Encoding
- MPEG1 Layer 1, 2 or MPEG4 AAC (Main or Low profiles) Audio Encoding
- Analog video and audio output to monitor
- Optimized for the full D1 resolution
- 720x480, 30 fps in NTSC / 720x576, 25 fps in PAL
- Dual-stereo channel audio encoding capability
- Half-D1, CIF and lower resolutions available to conserve bandwidth
- Adaptive video noise reduction and de-interlacing
- Low-latency RTP, UDP unicast/multicast MPEG2 TS streaming
- Supports DHCP and static IP assignment
- Configurable with Remote Desktop or VNC software
- Additional Options:
  - IEEE1394 DV input
  - Remote storage of encoded contents
  - Streaming Scheduling software (coming soon)
  - Real time system status monitoring via LAN (IPMI)
  - Alarms via SNMP, pager

### Video Inputs:

Composite  
S-Video  
Component (YUV/RGB with Int. or Ext. sync)  
SDI

### Audio Inputs:

Balanced analog audio (4 mono/2 stereo channels)  
AES/EBU digital audio

### Network:

Dual (100Mbps and Gigabit) Ethernet ports

### Outputs:

Composite video and mono audio connections to monitor  
Optional RS232 port for emergency recovery console

## MV401EXP-WM9 Encoder

- Ultra slim profile 1U rack mount case
- Automatic streaming after power on
- Windows Media 9 Professional Video and Audio encoding configuration
- Analog video and audio output to monitor
- Multiple resolution options, up to full D1
- 720x480 in NTSC / 720x576 in PAL
- CIF and lower resolutions available to conserve bandwidth
- Variable frame rates available up to 30 fps in NTSC and 25 fps in PAL
- Multiple bitrate encoding simultaneously
- Adaptive video noise reduction and de-interlacing
- Provides MMS streaming to WM server or clients
- Supports DHCP and static IP assignment
- Configurable with Remote Desktop or VNC software
- Additional Options:
  - IEEE1394 DV input
  - Backup and indexing of encoded contents
  - Streaming Scheduling software
  - Real time system status monitoring via LAN (IPMI)
  - Alarms via SNMP, pager

### Video Inputs:

Composite  
S-Video  
Component (YUV/RGB with Int. or Ext. sync)  
SDI

### Audio Inputs:

Balanced analog audio (1 stereo channel)  
AES/EBU digital audio

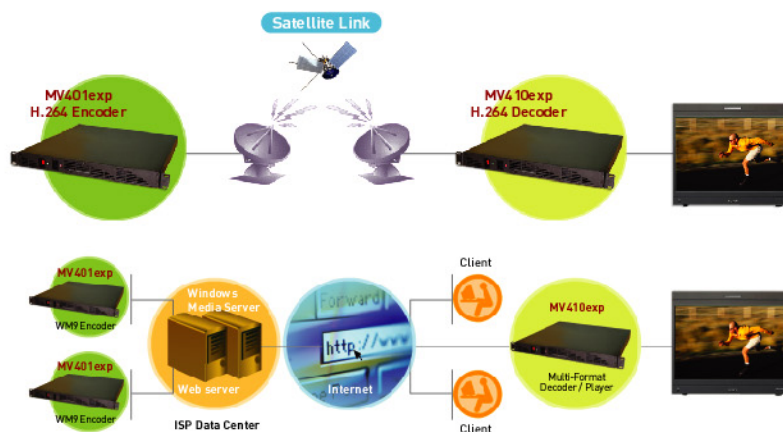
### Network:

Dual (100Mbps and Gigabit) Ethernet ports

### Outputs:

Composite video and mono audio connections to monitor  
Optional RS232 port for emergency recovery console

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