

capture

transcode

stream

Video in, high-quality digital media out

StreamZ™ standard definition media encoding servers deliver high-performance, multi-format video capture, encoding and live streaming in an easy to use, streamlined turnkey solution that integrates easily into any professional environment. Combining the performance and quality advantages of hardware based preprocessing with the flexibility of software codecs and a powerful yet intuitive user interface, StreamZ encoders are ideal for today's expanding array of network-based content distribution and file-based production workflows. From real-time live encoding from live sources or decks to faster-than-real-time transcoding from existing media files, StreamZ can dramatically increase your volume and quality of media produced easily and cost-effectively.

StreamZ features advanced video and audio preprocessing that runs in hardware in real time. Video preprocessing features include motion adaptive de-interlacing, scaling, filtering and 2D and 3D noise reduction, enabling optimum quality and the most efficient use of bandwidth in the compressed result. StreamZ also offers hardware-based graphic overlay and video proc amp controls, with 7-band parametric EQ and dynamic range compression/expansion ensuring great-sounding audio. This preprocessing also reduces the amount of work that the compression engine needs to do, letting you process more streams simultaneously.

Multiple formats, one easy workflow

StreamZ servers include the powerful and intuitive Stream software, providing you with a simple, consistent interface with a streamlined workflow. You can encode to multiple formats, resolutions and bit rates simultaneously in real time, giving you exceptional productivity while targeting multiple distribution channels with individually optimized media streams. StreamZ supports advanced compression and file formats including Windows Media 9, SMPTE VC-1, AVC (H.264), MPEG-4, MPEG-2, Adobe Flash Video and many more. Optional format modules like the Digital Rapids Studio AVC Encoder™ deliver output optimized for the stringent requirements of advanced applications such as VOD and IPTV. Video and audio preprocessing settings, proc amp controls, gamma correction, cropping and more can be interactively adjusted. Output options include live streaming, archive files (which can be automatically referenced by an HTML file) and more. Popular Windows Media DRM license providers are supported. The parameters associated with each encoding session can be saved in part or in whole, letting you recreate an entire project or reuse portions within other jobs. Your productivity is increased with less effort and the cost of training is minimized.

Automation for broadcast, production, IPTV and the enterprise

The StreamEnterprise™ software included with StreamZ "XS" models includes powerful workflow integration and automation tools including RS422 device control, VBI capture with Closed Caption support, GPI triggers, e-mail notification, automated FTP delivery, direct DVD output and XML-based project files. For particularly complex simultaneous encodes, Batch Encoding mode lets you ingest once in real time and automatically transcode to multiple formats. Watch folder support can be combined with powerful template-based publishing to empower your content creators, enabling them to automatically encode and publish to your web site, intranet or FTP server by simply dropping their finished content into your watch folder. External scripting lets you extend StreamZ functionality and customize how it works in your environment. Java-based, platform independent remote control provides access to StreamZ over your network, while our optional Digital Rapids Broadcast Manager™ software application provides management and control of multiple systems for live streaming on an enterprise scale.



Image courtesy of Computer Cafe



Specifications

Turnkey Configuration ("XS" Models)

3RU or 2RU chassis (varies internationally)
Hot-swappable drive bays
Dual dual-core Xeon processors
System drive, DVD R/W
Digital Rapids SD capture board
StreamEnterprise software

capture

Analog Video/Audio Inputs (all models)

2 x Component video (3 BNC)
2 x Y/C (S-Video) (Mini-Din)
4 x Composite video (BNC)
4 x Balanced audio (XLR)
4 x Unbalanced audio (RCA)

transcode

Digital Video/Audio Inputs (digital models only)

2 x SDI (supports embedded audio)
2 x AES/EBU stereo audio
1 x DV via host system IEEE-1394 port
(StreamZ-1600xs and StreamZ-2600xs only)

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Models

StreamZ-1000xs Single-channel analog
StreamZ-1600xs Single channel digital and analog with DV support
StreamZ-2000xs Dual-channel analog
StreamZ-2600xs Dual-channel digital and analog with DV support

I/O Connectivity

Breakout cable for video and audio standard
Breakout box optional

Supported formats

Standard and optional codec support is evolving constantly and may vary between models. Please see our web site for the latest format support information.



Breakout Cable standard, Breakout Box optional

Hardware Video Processing

NTSC or PAL inputs (user-selectable)
Motion adaptive de-interlacing
Noise reduction (3D and 2D)
Aspect ratio conversion
Cropping and scaling
Proc amp control; gamma correction
Graphics overlay with scaling and positioning

Hardware Audio Processing

48kHz, 24-bit audio processing
7-band parametric EQ per channel
Dynamic range compression / expansion
Hardware sample rate conversion
Volume control; Bass and Treble control

StreamEnterprise Software Features:

Easy to use interface with single click encoding
Simultaneous output to a mixture of codecs/resolutions
Encode from live input or transcode from existing files
Live monitoring of video and audio
Interactive control of hardware preprocessing capabilities
Programmable event triggers (GPI, duration, custom keys)
RS422 deck control
Batch Encode and Batch Transcode
Keyframeable video processing plugins
E-mail notifications and automated FTP distribution
Watch folder support
Remote control interface (Java based)

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