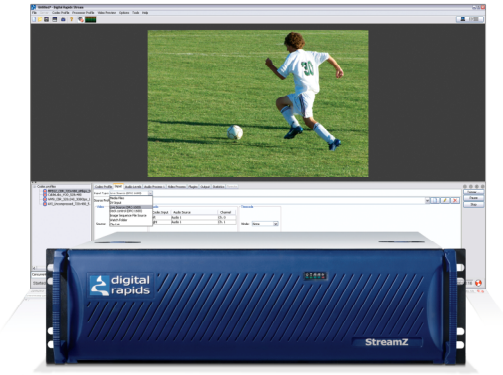

# StreamZ Servers

StreamZ standard definition media encoding servers deliver high-performance, multi-format video capture and encoding from live sources or decks, transcoding between media formats and live streaming in an easy to use, streamlined turnkey solution that integrates easily into any professional environment.

**SD video in, high-quality digital media out**

Combining the performance & quality advantages of hardware based preprocessing with the flexibility of software codecs and a powerful yet intuitive user interface, StreamZ scalable professional encoders are ideal solutions for today's expanding array of network-based content distribution and file-based production workflows. From real-time live encoding to faster-than-real-time transcoding from existing media files, StreamZ can dramatically increase your volume & quality of media produced easily & cost-effectively.




StreamZ systems feature 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 video and audio streams simultaneously.

### Key Features and Benefits

- High-quality, multi-format media encoding/transcoding/streaming
- Real-time live encoding, faster-than-realtime transcoding (dependent on format/settings)
- Comprehensive analog & digital input options including SDI
- Dual-channel models encode two distinct sources simultaneously
- Hardware based video preprocessing including deinterlacing and noise reduction
- Hardware based audio processing including EQ & dynamic range compression /expansion
- Simultaneous output to multiple formats, resolutions and bitrates from same source lets you optimize for multiple distribution channels
- Easy to use software with extensive integration, automation and customization features
- All features and benefits of Stream FE software

**Multiple formats, one easy workflow**

StreamZ servers include the powerful & intuitive Stream software, providing you with a simple, consistent interface with a streamlined workflow. You can encode to multiple formats, resolutions & bit rates simultaneously in real time, giving you exceptional productivity while targeting multiple distribution channels with individually optimized media streams. StreamZ encoders support advanced compression and file formats including Windows Media 9, SMPTE VC-1, AVC (H.264), MPEG-4, MPEG-2 & 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 & audio preprocessing settings, proc amp controls, gamma correction, cropping & more can be interactively adjusted. Output options include live streaming, archive files (which can be automatically referenced by an HTML file) & 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 & the cost of training is minimized.

**Automation for broadcast, production, IPTV and the enterprise**

The Stream FE 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 output (including support for Rimage disc publishing systems) 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. Keyword shortcuts (tags) automate data, metadata and filename entry. 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.

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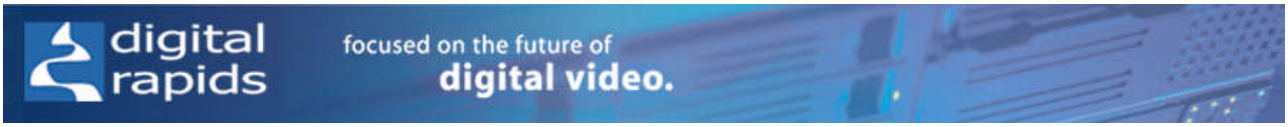


# Specifications

**Turnkey System Configuration (2RU "XS" Models - Europe and Asia)**

- 2RU chassis with 6 hot-swappable drive bays
- Intel multi-core processor(s)
- System drive, DVD R/W
- Digital Rapids SD capture board
- Stream FE software
- Physical dimensions (inches): 27.8 D x 16.9 W x 3.44 H
- Physical dimensions (mm): 705 D x 430 W x 87.3 H

**Rack-mountable video/audio breakout box**


## Analog Models

**StreamZ-1000xs** – Single-Channel Analog

**StreamZ-2000xs** - Dual-Channel Analog

## Digital/Analog Models

**StreamZ-1600xs** - Single-Channel Digital & Analog with DV support

**StreamZ-2600xs** - Dual-Channel Digital & Analog with DV support

| Hardware Feature | StreamZ-1000xs | StreamZ-1600xs | StreamZ-2000xs | StreamZ-2600xs |
|---|---|---|---|---|
| **Encoding channels (simultaneous inputs)** | 1 | 1 | 2 | 2 |
| **Component analog video inputs** | 2 | 2 | 2 | 2 |
| **Y/C (S-Video) video inputs** | 2 | 2 | 2 | 2 |
| **Composite video inputs (BNC)** | 4 | 4 | 4 | 4 |
| **Balanced analog audio inputs (XLR)** | 4 | 4 | 4 | 4 |
| **Unbalanced analog audio inputs (RCA)** | 4 | 4 | 4 | 4 |
| **SDI (with embedded audio)** | | 1 | | 2 |
| **AES/EBU stereo audio (XLR)** | | 1 | | 2 |
| **DV via host system IEEE1394 port**** | | 1 | | 1 |

*** DV capture supported through host system IEEE-1394 port (hardware pre-processing not applicable)*

## General Features

- Capture/encode to files from live inputs
- Capture/encode to files from deck with RS-422 control
- Transcode from source media files
- Live streaming
- Archive to files during live streaming
- VBI capture with Closed Caption support

## Hardware Processing (SDI, AES & Analog inputs)

- Video pre-processing (motion adaptive deinterlacing, 2D & 3D noise reduction, aspect ratio conversion, cropping, scaling, filtering, proc amp controls, gama correction)
- Audio pre-processing (7-band parametric EQ pre channel, dynamic range compression/expansion, bass/treble, sample rate conversion, volume)
- Graphics overlay

## Format Support

- **Input video frame formats/rates:**
  480i @ 59.94Hz (NTSC)
  576i @ 50Hz (PAL)
- **Encoding Formats (codecs and containers)**
  ***Standard:*** VC-1/WMV/ Silverlight, MPEG-2, MPEG-1, QuickTime® (inc. MPEG-4 and H.264), AVI, MP3 and more.

  ***Optional:*** Advanced H.264 (AVC, MPEG-4 Part 10), Adobe Flash (H.264 or On2 VP6), Dolby® Digital and Digital Plus, Avid DNxHD®, MXF, GXF, LXF, Omneon, DVCPRO, 3GPP and more.

## Key Features & Benefits Stream FE

- Easy-to-use interface with single-click encoding
- Simultaneous output to multiple codecs, resolutions and bit rates
- Interactive control of hardware preprocessing capabilities
- Programmable event triggers (GPI, duration, custom keys)
- Reusable codec profiles and project settings save time/effort
- RS-422 deck control for batch capture and logging
- Batch Encoding (real-time capture with auto transcode)
- Video and audio processing plug-ins (graphic and video overlay, adaptive inverse telecine, color space conversion, audio track mix-down and more) with third-party DirectShow and DMO plug-ins
- E-mail notifications and automated FTP distribution
- Watch Folder support and batch Clip Lists for media file transcoding
- Integration with Digital Rapids Transcode Manager and Digital Rapids Broadcast Manager (each separately)
- Optional Forensic watermarking for content protection (Civolution CompoTrack, Thomson NewGuard) and tracking/monitoring (Civolution Teletrax)

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