

# Stream Software Comparison

version 3.0

One of two levels of the Stream software is included with each StreamZ™, StreamZHD™ and DRC-Stream™ solution, offering an intuitive, streamlined interface for high-quality video and audio ingest, encoding, transcoding, streaming and distribution with simultaneous output to multiple formats. Stream LE™ provides all core functionality, while Stream FE™ (Facility Edition) adds expanded workflow automation, integration tools, publishing capabilities and more. A third software configuration, Stream Live™, is included with the StreamZ Live™ family of dedicated live streaming media encoders.

Bundling	DRC-Stream	StreamZ	StreamZHD	StreamZ Live
Stream LE	•			
Stream FE	○	•	•	
Stream Live				•

## Format Support

The Stream software's extensive standard and optional codec and container support is evolving constantly. Please see our website for the latest information.

### Input Formats and Containers (File-Based)

	Stream LE	Stream FE
AVI <sup>1</sup>	•	•
MPEG-1, MPEG-2 (including VOB), MPEG-4/H.264	○	•
QuickTime® (Media and Reference files) <sup>1</sup>	•	•
Microsoft Windows Media/SMPTE VC-1	•	•
WAV (inc. RF64, Broadcast WAV), MP3 and AAC <sup>2</sup> audio	•	•
Avid DNxHD® in MXF <sup>6</sup>	○	○
MXF <sup>1,3</sup>	○	○
Omneon (MOV) <sup>1</sup>	•	•
GXF <sup>1</sup>	○	○
LXF <sup>1</sup>	○	○
DV/DVCPro 25/50/100(HD) in MXF <sup>6</sup> , AVI	○	○
DV/DVCPro 25 in MOV	•	•
Image Sequence import (18 still image formats)		•
AES3 audio (SMPTE 331M and 302M, AES3-203)		•

### Output Formats (Streaming)

	Stream LE	Stream FE	Stream Live
VC-1 (Windows Media WMV, Microsoft Silverlight)	•	•	Choice of formats available when ordering StreamZ Live
VC-1 Advanced Features (Closed Captioning, muxing with non-WMA audio formats)		•	
H.264 (AVC) with AAC Audio (RTP/RTSP)		○	
H.264 (AVC) progressive with AAC/MP3 Audio (RTMP for Adobe Flash, RTP/RTSP)	○	○	
On2 VP6 (Adobe Flash 8)	○	○	
3GPP (H.263, H.264, MPEG-4 Part 2, AAC and AMR audio)	○	○	
MPEG-2 Transport Stream (UDP/RTP with RTSP)	○	•	
H.264 (AVC) in Transport Stream		○	○
Dolby® Digital and Dolby® Digital Plus (stereo or surround) in Transport Stream	○	○	○

### Output Formats and Containers (File-Based)

	Stream LE	Stream FE
VC-1 (Windows Media WMV, Microsoft Silverlight)	•	•
VC-1 Advanced Features (Elementary Streams, Closed Captions in script stream, muxing with non-WMA audio formats)		•
H.264 (AVC) – DRC AVC for Adobe® Flash® (progressive .FLV/F4V/MP4/MOV/M4V/3GP file output; AAC and MP3 audio)	○	○
H.264 (AVC) – DRC Studio AVC Encoder (H.264 Elementary Streams)		○
H.264 (AVC) – DRC Studio AVC Encoder Bundle (H.264 ES, H.264 in Transport Stream, H.264 in .MP4 file; AAC & MPEG Layer 2 audio)		○
Dolby® Digital and Dolby® Digital Plus (stereo or surround)	○	○
MPEG-4 Part 2 (via QuickTime®)	•	•
3GPP (H.263, H.264, MPEG-4 Part 2, AAC and AMR audio)	○	○
On2 VP6 (Adobe Flash 8)	○	○
AVI	•	•
MPEG-1 and MPEG-2 (4:2:0 and 4:2:2, compatible with CableLabs® VOD specifications)	○	•
QuickTime®	• <sup>4</sup>	•
Avid DNxHD® in MXF <sup>6</sup>		○
MXF <sup>1,3</sup>		○
GXF <sup>1</sup>		○
LXF <sup>1</sup>		○
Omneon (MOV) <sup>1</sup>	○	○
DVCPro 25/50/100(HD) in AVI	○	○
DVCPro 25/50/100(HD) in MXF <sup>6</sup> , MOV		○
RealVideo / RealAudio (Helix) 9 & 10	•	•
Image Sequence (18 still image formats)		•
WAV audio (multi-channel, RF64, Broadcast WAV)	•	•
AES3 audio (SMPTE 331M and 302M, AES3-203)	•	•
AAC audio (Nero)	○	○
MP3 audio (stereo and surround)	○	•
Closed Caption file (SCC, SAMI, SRT) <sup>5</sup>	•	•

Ingest • Encode • Transcode • Stream • Protect • Deliver



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## Features

• standard ○ optional

### General Functionality

	Stream LE	Stream FE	Stream Live
Capture/encode to files from live inputs	•	•	
Capture/encode to files from decks with RS-422 control	○	•	
Transcode from source media files	•	•	
Live streaming	•	•	•
Archive to files during live streaming	•	•	•

### Input Functionality

Live video inputs	•	•	•
Live audio inputs (multi-channel)	•	•	•
Media file inputs	•	•	
Watch Folder for media file inputs		•	
RS-422 deck control	○	•	
Batch Encoding (real-time capture with auto transcode)		•	
Timecode (preserve, auto increment or time of day)	•	•	•
VBI capture (with Closed Caption support) <sup>5</sup>	•	•	•
CEA-608/708 Closed Caption capture from SD/HD SDI	•	•	•
Clip Lists (multiple input clips to multiple or concatenated output)		•	
Duration-based encoding	•	•	

### Video and Audio Processing

Motion adaptive de-interlacing (hardware)	•	•	•
Spatial (2D) noise reduction (hardware) <sup>7</sup>	•	•	•
Motion adaptive temporal (3D) noise reduction (hardware)	•	•	•
Horizontal and vertical filtering, Proc Amp controls, gamma correction, scaling, cropping (hardware)	•	•	•
Graphic overlay (hardware)	•	•	•
Cropping and de-interlacing (software)	•	•	•
Video processing plug-ins (software-based) – Graphic and Video overlay, scaling, adaptive Inverse Telecine, Burn-in Timecode/Time-of-Day and more		•	
Audio processing plug-ins (software-based) – Volume (Level), Track Mix-down, Channel Selection and Audio Mapping		•	
Support for third-party DirectShow and DMO audio and video plug-ins		•	
Forensic video watermarking (Civolution CompoTrack)	○	○	
Forensic video watermarking (Thomson NexGuard)	○	○	
Content tracking/monitoring watermarking (Civolution Teletrax)	○	○	
Audio volume control, sample rate conversion	•	•	•
7-band Parametric EQ, Dynamic Range Compression/Expansion, Bass and Treble controls (hardware) <sup>7</sup>	•	•	•

### Publishing and Advanced Output

CEA-608 and 708 Closed Captioning support (including 608 to 708 translation from 608-only sources; codec-dependent)	•	•	
Template-based publishing interface	•	•	
Log publishing – per codec	•	•	
Log publishing – per project or persistent (all projects and codecs)		•	
DVD publishing (menuless or chapter-based menu from deck capture points or clip list)		•	
Direct DVD publishing to Rimage Producer III, Rimage Professional and Primera multi-disc production systems		•	
E-mail notification		•	
Automated FTP distribution		•	
Group codecs (including parallel file multiplexing from single encodes)		•	
Media file encryption/decryption		•	
Support for third-party Windows Media DRM providers (Entriq, SyncCast, thePlatform, generic)	•	•	•

### Workflow and Application Integration

GPI and keystroke encode trigger	•	•	
LTC timecode encode trigger	•	•	
Controllable via Digital Rapids Broadcast Manager <sup>®</sup>		○	○
Integration with Digital Rapids Transcode Manager <sup>®</sup> (sold separately)	•	•	
Web Services (SOAP) API	○	○	
WDM (Windows Driver Model) drivers <sup>7</sup>	•	•	

1. Container (wrapper) support. Additional codecs may be required for encoding or decoding the compressed essence within the container.

2. AAC decoding may require additional decoder (included with many players) to be installed on the system

3. Powered by OpenCube technology.

4. QuickTime H.264, AAC, AMR not supported in Stream LE

5. Closed Caption from VBI capture with DRC-1000 boards and higher

6. Requires MXF module, sold separately

7. Standard-definition models (DRC-500 to DRC-2600 boards) only



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