

Stream Software Comparison

version 3.7.3

One of two levels of the Stream software is included with each **StreamZ™**, **StreamZHD™**, **DRC-Stream™** and **Flux™** based solution, offering a streamlined interface for high-quality video and audio ingest, encoding, transcoding and live streaming 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 encoders.

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

Format Support

Standard and optional codec and container support is evolving constantly. Please see our web site for the latest information.

Input Formats and Containers (File-Based)

| | Stream LE | Stream FE |
|--|-----------|----------------|
| AVI ¹ | • | • |
| MPEG-1, MPEG-2 (including VOB), MPEG-4/H.264 | ○ | • |
| QuickTime® (Media and Reference files; incl. Apple® ProRes and Avid DNxHD® in MOV with free third-party codecs) ¹ | • | • |
| SMPTVC-1 / Windows Media | • | • |
| WAV (inc. RF64, Broadcast WAV), MP3 and AAC ² audio | • | • |
| Avid DNxHD® in MXF ⁶ | ○ | ○ |
| MXF ^{1,3} (including AS02) | ○ | ○ |
| Omneon (MOV) ¹ | • | • |
| GXF ¹ | ○ | ○ |
| LXF ¹ | ○ | ○ |
| Sony XDCAM/XDCAM HD (up to 4:2:2 at 50Mb/s) in MXF ⁶ | ○ | • ⁶ |
| DV/DVCP Pro 25/50/100(HD) in MXF ⁶ (incl. P2), AVI | ○ | ○ |
| DV/DVCP Pro 25 in MOV | • | • |
| RED Camera (R3D) | ○ | ○ |
| JPEG2000 in MXF ⁶ | ○ | ○ |
| Image Sequence import (18 still image formats) | | • |
| Dolby® Digital (AC3) audio with metadata support | ○ | • ⁷ |
| AES3 audio (SMPTC 331M and 302M, AES3-2003) | | • |
| Closed Caption/Timed Text file (SCC, DXFP) | | • |

Output Formats (Streaming)

| | Stream LE | Stream FE | Stream Live |
|---|-----------|-----------|---|
| VC-1 (Microsoft® Silverlight® incl. IIS Smooth Streaming; Windows Media incl. multicast) | • | • | Included formats vary by StreamZ Live model. |
| H.264 (AVC) progressive with AAC/MP3 Audio (RTMP for Adobe® Flash® incl. Dynamic Streaming; RTP/RTSP; Microsoft IIS Smooth Streaming) | ○ | ○ | |
| H.264 (AVC) for Apple® iPhone®/iPad™ with integrated segmenter; AAC audio | ○ | ○ | Please see the StreamZ Live brochure for details. |
| Advanced H.264 (AVC) with AAC Audio (RTP/RTSP) | | ○ | |
| On2 VP6 (Adobe Flash 8) ⁸ | ○ | ○ | |
| 3GPP (H.263, H.264, MPEG-4 Part 2, AAC, AMR) | ○ | ○ | |
| MPEG-2 in 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 (Microsoft® Silverlight® incl. IIS Smooth Streaming; Windows Media WMV; Elementary Streams) | • | • |
| H.264 (AVC) – DRC AVC for Web (Adobe® Flash® incl. Dynamic Streaming; Microsoft® Silverlight® incl. IIS Smooth Streaming; progressive .FLV/F4V/MP4/MOV/3GP file output; ACC and MP3 audio) | ○ | ○ |
| H.264 (AVC) for Apple® iPhone®/iPad with integrated segmenter; AAC audio | ○ | ○ |
| H.264 (AVC) - DRC Studio Encoder (H.264 Elementary Streams; frame-compatible 3D encoding) | | ○ |
| H.264 (AVC) – DRC Studio AVC Encoder Bundle (H.264 ES, H.264 in Transport Stream, H.264 in .MP4 file; frame-compatible 3D; AAC & MPEG Layer 2 audio) | | ○ |
| Dolby® Digital and Dolby® Digital Plus audio (stereo or surround) | ○ | ○ |
| Dolby® Pulse (AAC) audio | ○ | ○ |
| Advanced encoding/muxing for Sony® PlayStation® 3, PSP® and other Sony devices | | ○ |
| MPEG-4 Part 2 (via QuickTime®) | • | • |
| 3GPP (H.263, H.264, MPEG-4 Part 2, AAC, AMR) | ○ | ○ |
| On2 VP6 (Adobe® Flash® 8) ⁸ | ○ | ○ |
| AVI | • | • |
| MPEG-1 and MPEG-2 (4:2:0 and 4:2:2, compatible with CableLabs® VOD specifications) | ○ | • |
| QuickTime® | • ⁴ | • |
| Avid DNxHD® in MXF ⁶ | | ○ |
| AVC-Intra (Panasonic P2, MXF ⁶) | | ○ |
| MXF ^{1,3} (including AS02) | | ○ |
| GXF ¹ | | ○ |
| LXF ¹ | | ○ |
| Omneon (MOV, MXF) ¹ | | ○ |
| Sony XDCAM/XDCAM HD (up to 4:2:2 at 50Mb/s) in MXF ⁶ , MOV | | • |
| DVCP Pro 25/50/100(HD) in AVI | ○ | ○ |
| DVCP Pro 25/50/100(HD) in MXF ⁶ , MOV | | ○ |
| JPEG2000 in Image Sequence, MXF ⁶ | ○ | ○ |
| RealVideo / RealAudio (Helix) ^{9 & 10} | • | • |
| Image Sequence (18 still image formats) | | • |
| WAV audio (multi-channel, RF64, Broadcast WAV) | • | • |
| AES3 audio (SMPTC 331M and 302M, AES3-2003) | • | • |
| MP3 audio (stereo and surround) | ○ | • |
| Closed Caption / Timed Text file (SCC, SAMI, SRT, DXFP) ⁵ | • | • |

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 and multi-channel audio inputs | • | • | • |
| Media file inputs | • | • | |
| Watch Folder for media file inputs | | • | |
| RS-422 deck control | ○ | • | |
| Batch Encoding (real-time capture with auto transcode) | | • | |
| Timecode (preserve with discontinuity support per SMPTE 328M, auto increment or time of day) | • | • | • |
| VBI capture (with Closed Caption support) ⁵ | • | • | • |
| CEA-608/708 Closed Caption capture from SD/HD SDI | • | • | • |
| Raw ancillary data capture ⁹ | • | • | |
| Clip Lists (multiple input clips to multiple or concatenated output) | | • | |

Video and Audio Processing

| | | | |
|---|---|---|---|
| Interactive control of hardware-based pre-processing (motion adaptive de-interlacing, proc amp controls, graphic overlay, etc.) | • | • | • |
| Video processing plug-ins (software-based) – cropping and de-interlacing | • | • | |
| Video processing plug-ins (software-based) – graphic and video overlay, scaling, adaptive Inverse Telecine, 3:2 pulldown insertion, speed changes, Closed-to-Open Captions, burn-in Timecode/Time-of-Day and more | | • | |
| Audio processing plug-ins (software-based) – volume (level), track mix-down, audio mapping and more | | • | |
| Support for third-party DirectShow and DMO audio and video plug-ins | | • | |
| Forensic video watermarking (Nexguard by Civolution) | ○ | ○ | |
| Content tracking/monitoring watermarking (Civolution Teletrax) | ○ | ○ | |
| YouTube Content ID reference file (fingerprint) generation | ○ | ○ | |
| Vobile VideoDNA fingerprint generation | | • | |

Publishing and Advanced Output

| | | | |
|---|---|---|---|
| CEA-608 and 708 Closed Captioning support (including 608 to 708 translation from 608-only sources; select formats) | • | • | • |
| Active Format Description (AFD) insertion (MPEG-2) | ○ | • | |
| 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 | | • | |
| Insert SCTE 35 Cueing Messages for Digital Program Insertion (requires optional Manzanita TS Muxer) | | • | |
| Frame-compatible 3D encoding – side-by-side, top/bottom (requires optional Digital Rapids Studio AVC Encoder) | | ○ | |
| Group codecs (including parallel file multiplexing from single encodes) | | • | |
| Media file encryption/decryption | | • | |
| Script command insertion into ASF (on-the-fly via Web Services API or from file) | • | • | • |
| Cue point insertion (onCuePoint) into Adobe Flash RTMP streams (on-the-fly via Web Services API or from file) | • | • | • |
| SCTE 35/104 support (Cueing Messages for ad insertion) | • | • | • |
| Insert Closed Captions from live sources as timed text into MP4 files for Adobe Flash playback (requires optional DRC AVC for Web module) | • | • | |
| Microsoft PlayReady protection for Smooth Streaming content (including PIFF-compliant H.264 media) with support for third-party providers (BuyDRM, CSG Systems, EZDRM, generic) | • | • | • |
| Windows Media DRM protection with support for third-party providers (Entriq, Irdeto DayPort, SyncCast, thePlatform, generic) | • | • | • |

Workflow and Application Integration

| | | | |
|--|---|---|---|
| Triggered encoding (GPI, keystroke, LTC timecode, VITC) ¹⁰ | • | • | • |
| Controllable via Digital Rapids Broadcast Manager [®] | | ○ | ○ |
| Integration with Digital Rapids Transcode Manager [®] (sold separately) | • | • | |
| Web Services API | ○ | ○ | ○ |

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. Integrated Dolby Digital (AC3) decoding included with new Stream FE purchases after July 25/2011. Not included with free upgrades.

8. On2 VP6 and RealVideo/RealAudio offered for legacy compatibility; no ongoing development support.

9. Raw ancillary data capture available on DRC-5600, DRC-5650 and Flux family of boards

10. VITC timecode trigger from VBI available with Flux family of boards



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