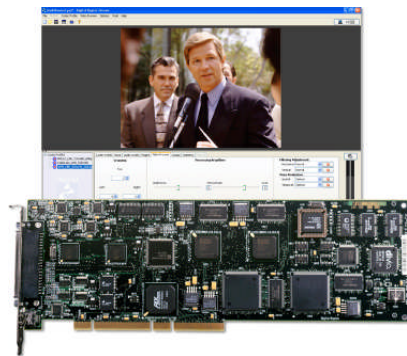


DRC-Stream

Video Capture, Encoding and Streaming Cards

Build your own multi-format capture, encoding and streaming workstation

Digital Rapids DRC-Stream™ PCI capture and processing boards allow you to add professional high-quality, real-time, multi-format video/audio encoding and web streaming capabilities to your existing workstation. With the included [Stream LE software](#), Digital Rapids Stream encoding solutions combine the performance and quality advantages of [hardware-based preprocessing](#) with the format flexibility of software codecs, all controlled by an intuitive, streamlined user interface.



The multiple-format encoding capabilities of Digital Rapids Stream solutions allow you to reach a wider audience than you ever have before, with video and audio optimized for each viewing environment. You can encode into formats including Windows Media, SMPTE VC-1, Real, QuickTime, MPEG and more in real time, saving you time and effort. The only limitation to the number of simultaneous real-time encodes is

the processing power provided by your workstation's CPU. You can encode video from live sources or transcode from existing digital media files. Whether you're webcasting live events; streaming live channels of IPTV; capturing media for archive or production; or encoding on demand content for the web, mobile devices, VOD or DVD, Stream can encode to the compression formats and bitrates needed to reach your target platforms with the highest quality video and audio possible.

Tightly integrated hardware and software

The secret to our industry-leading encoding quality is the powerful media processing architecture of the DRC-Stream hardware. DRC-Stream PCI capture cards are at the core of all Digital Rapids encoding solutions, and are available in configurations ranging from single-channel analog to dual-channel analog and digital. Dual-channel models feature two discrete channels of advanced video processing capabilities and up to eight channels of audio processing. Each video channel features [powerful real-time preprocessing](#) including motion adaptive de-interlacing, scaling, filtering and motion adaptive 3D noise reduction, delivering higher quality video that makes more efficient use of bandwidth than video created using competing systems. Each audio processing channel features 7-band parametric EQ and dynamic range compression/expansion to make sure your message gets through loud and clear.

The included [Stream LE software](#) gives you one simple, consistent interface that leads you through the process of creating multiple encoded formats in just a few steps, and lets you deliver your content with as little as one mouse click. One interface that controls all encoding parameters and manages the distribution, streaming and archiving of your media. One click and you can reach a whole world of new audiences.

Key Features and Benefits

- PCI capture card with preprocessing for optimal quality
- Realtime media encoding, transcoding and streaming
- Comprehensive input options for analog and digital video and audio
- Dual-channel models encode two distinct sources simultaneously
- Hardware based video preprocessing including deinterlacing and noise reduction
- Hardware based audio preprocessing inc. EQ & dynamic range compression/expansion
- Simultaneous output to multiple formats, resolutions and bitrates from same source lets you optimize for multiple audiences
- Easy to use software, customizable for single-click encoding

Supported Formats

Included

- SMPTE VC-1, Microsoft WMV (plus Silverlight publishing)
- QuickTime (MOV & MPEG4 Part 2)
- AVI, WAV, Uncompressed
- Real, Real Helix 9 and 10
- DivX support (codec not included)

Optional

- MPEG2 (to file), MPEG1
- MPEG-2 live streaming
- Digital Rapids AVC Encoder (Archiving file encoding to AVC/ H.264, MPEG4, AAC & Flash 9)
- DRC AVC for Flash (AVC (H.264) live streaming)
- Digital Rapids Studio AVC Encoder (H.264 in MPEG-2 Transport Stream, live H.264 streaming)
- Adobe Flash 8 with On2 VP6 (to file and/or live streaming)
- 3GPP/ Mobile Encoder
- AC-3 (Stereo & Dolby Digital)
- MXF import

DRC-Stream Specifications

Models

DRC-1000 - Single channel analog video & audio

DRC-1400 - Single channel digital & analog* video and audio

DRC-1600 - Single channel digital & analog* video & audio, plus DV support

DRC-2000 - Dual channel analog video & audio

DRC-2600 - Dual channel digital & analog* video and audio, plus DV support

* Optional breakout cable or breakout box required for analog and AES/EBU inputs with DRC-1400, DRC-1600 and DRC-2600 (SDI connectivity standard).

Form Factor

- Full length, full height PCI 64bit/66Mhz (32bit/33Mhz compatible)

Connections

- **DRC-1000, DRC-2000:** Video/audio breakout cable included standard
- **DRC-1400, DRC-1600, DRC-2600:** SDI connection module included standard; video/audio breakout cable optional
- **All models:** Rack-mountable video/audio breakout box optional



Video/audio breakout cable



SDI connection module



Rackmountable video/audio breakout box

Analog Video Inputs (with breakout cable or breakout box)

- 2 x Component (3 BNC)
- 2 x S-Video (Mini-Din)
- 4 x Composite (BNC)

Digital Video Inputs (digital-capable models only)

- 2 x SDI
- 1 x DV via host system IEEE-1394 port (DRC-1600 & -2600)

Analog Audio Inputs (with breakout cable or breakout box)

- 4 x balanced audio (XLR)
- 4 x unbalanced audio (RCA)

Digital Audio Inputs (digital-capable models only)

- Embedded SDI audio
- 2 x AES (XLR - with breakout cable or breakout box)

Hardware Video Processing (Analog and SDI)

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

Hardware Audio Processing (Analog, SDI and AES)

- 48kHz, 24-bit audio processing (16-bit capture)
- Eight audio processing channels
- 7-band parametric EQ per channel
- Dynamic range compression / expansion
- Hardware sample rate conversion
- Bass and treble control
- Volume control

Stream LE Software Features (included with all boards)

- Easy-to-use interface with single-click encoding
- One interface to capture, encode, transcode and stream
- Simultaneous output to multiple formats, resolutions and bit rates
- Interactive control of hardware preprocessing capabilities
- Closed Caption support
- Programmable event triggers (GPI, duration, custom keys)
- Reusable codec profiles and project settings save time/effort

Optional Upgrades to Stream FE Features

- 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, audio track mix-down and more)
- E-mail notifications and automated FTP distribution
- Watch Folder support and Batch Transcoding to multiple files or concatenated output
- Direct DVD publishing
- Parallel file multiplexing from independent encodes
- Controllable for live streaming with Digital Rapids Broadcast Manager