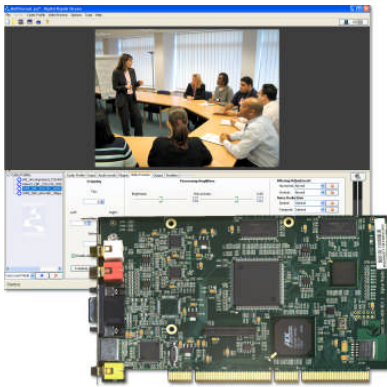# DRC-Stream500

Video Capture, Encoding and Streaming Cards

Professional real-time encoding at an entry-level price

Designed for professional applications but priced competitively with software only products, the low-cost DRC-Stream 500 PCI card & software bundle is ideal for corporate messaging, live web streaming, video archiving, security, distance education, government communication & many other applications. If you have video and you want to get it onto the Internet, onto your local network, or onto a CD/DVD, the DRC-Stream 500 is the ideal solution.

It's all about workflow

The DRC-Stream 500 includes Stream LE software. Stream LE is very easy to use – perfect for the novice & yet powerfully programmable for the expert user. To create high quality video using Stream LE you simply configure your system for the video and audio inputs you will be using (you can encode from a live input source, or transcode from existing digital media files), select the formats you wish to encode to Windows Media Video, SMPTE VC-1, Real Helix, Quicktime, MPEG-4, AVI or optional MPEG1, MPEG2, H.264, Flash and more, and choose your destination (media files or live streams). You can perform as many simultaneous encodes as your system's CPU horsepower will allow. Every time you want to use the system you simply load your project and hit the start button. Stream will manage all of the codec parameters and output filenames for you, allowing you to concentrate on other tasks. If you want to closely manage the encoding process, you can interactively tweak video parameters using the integrated proc amp controls, set cropping, change aspect ratios, set audio levels, pre-program your metadata and save all of those settings into a standard XML formatted project file. This process can be set to be fully automatic or fully interactive; it's completely up to you.

It's all about quality

Video in, high-quality encoded video out. It's that easy. DRC-Stream 500 will allow you to consistently create high-quality encoded video in real time, every time, without the complexity or performance bottlenecks of software-based systems. DRC-Stream 500 utilizes the same high quality video and audio preprocessing filters found in our high-end cards & server solutions. The preprocessing filters run in hardware in real time, eliminating the guess work to create high quality streaming video. The video preprocessing include motion adaptive de-interlacing, letting you output progressive scan video at any size without having to worry about interlace artifacts. 2D & 3D noise reduction features automatically reduce or even remove the noise in your video caused by low light conditions, analog tapes or transmission, film grain, & many other types of noise. With less noise your video will compress more efficiently. These powerful preprocessing capabilities let you stream higher quality, higher resolution video without using more bandwidth or storage. The advanced audio capabilities include 24-bit audio processing, 7-band parametric EQ, and dynamic range compression & expansion - ensuring your message gets through loud & clear.

Key Features and Benefits

- PCI capture card with preprocessing for optimal quality
- Realtime media encoding, transcoding and streaming
- Flexible analog video and audio inputs
- 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
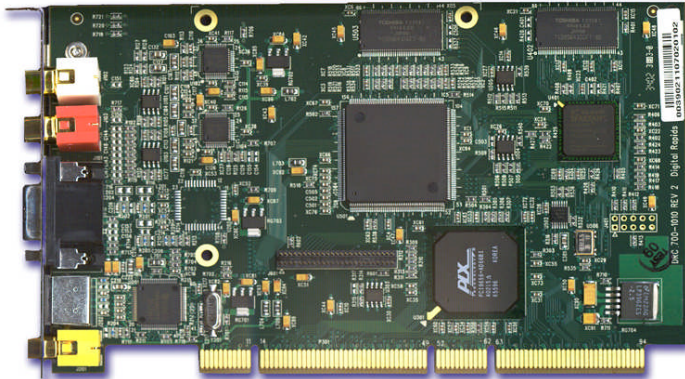- DivX support (codec not included)

Optional
- MPEG2 (to file), MPEG1
- MPEG-2 live streaming
- Digital Rapids AVC Encoder (Achiving 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 500 Specifications

Form Factor

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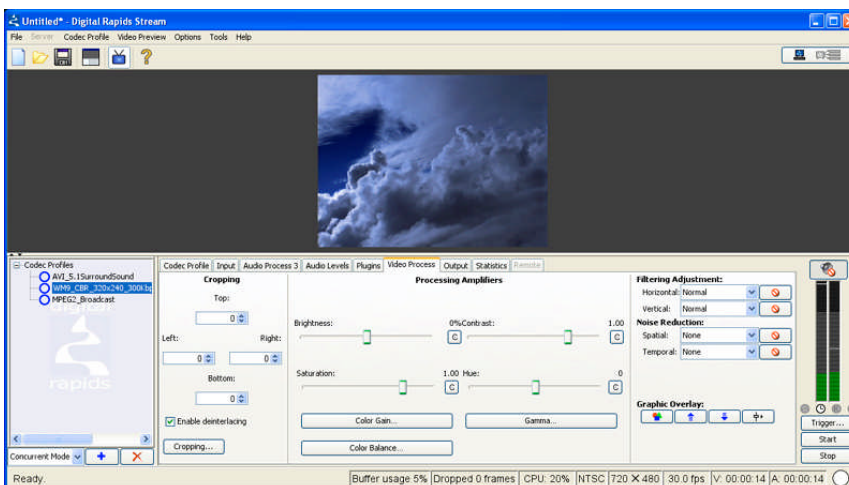

Video and Audio Inputs

- 1 x Composite Video (RCA)
- 1 x S-Video (Mini-Din)
- 2 x Unbalanced Audio (L+R, RCA)
- 4 x Balanced Audio (XLR)

Hardware Video Processing

- Supports NTSC and PAL video standards
- Motion adaptive de-interlacing
- Noise reduction (2D and motion adaptive 3D)
- 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 (16-bit capture)
- 7-band parametric EQ per channel
- Dynamic range compression / expansion
- Hardware sample rate conversion
- Bass and treble control
- Volume control

Stream LE Software Features

- Easy to use interface with programmable environment for single-click encoding
- Supports an extensive range of standard and optional codec formats
- Simultaneous output to a mixture of codecs, resolutions and bitrates
- Encode from live input or transcode from existing media files
- Live monitoring of video and audio with interactive control of hardware pre-processing capabilities
- Programmable event triggers (GPI, duration, custom keys)