

DRC-Stream500™

video encoding solutions

www.digital-rapids.com

Real Time Encoding with no penalties

Designed for professional applications but priced competitively with software only products, the DRC-Stream 500 is ideal for corporate messaging, live web streaming and video archiving, security, distance education and 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 your best solution.

Its all about workflow

The DRC-Stream 500 ships with its own native streaming software application known simply as Stream. Stream is very easy to use, perfect for the novice, and yet powerfully programmable for the expert user. To create high quality video files using Stream you simply configure your system for the video and audio inputs you will be using and select the formats you wish to encode to (Windows WM9, Real Helix, Quicktime, MPEG4, Flash, AVI, Image sequence, or optional MPEG1 or MPEG2). 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. To check your encoded files, select the integrated play button and the file you encoded will playback for you in the appropriate media player. 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, and 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 is completely up to you.

It is all about quality

Video in, high quality streams out. It is that easy. DRC-Stream 500 will allow you to consistently create high quality encoded video in real-time, every time without the complexity involved in software based systems. DRC-Stream 500 utilizes the same high quality Media Processing Engine (MPE) found in our high end cards and enterprise class server solutions. The MPE is a combination of video and audio pre-processing filters that run in hardware, in real-time, eliminating the guess work from creating high quality streaming video. The MPE features Motion Adaptive de-interlacing which will allow you to output progressive scan video at any size without having to worry about artifacts caused by interlaced video. Because your video will be converted to progressive scan, you will not be limited to low resolution video. You will be able to stream higher quality, higher resolution video without using more bandwidth. The noise reduction features of the MPE will automatically reduce or even remove the noise in your video caused by low light conditions, analog tapes or transmission, film grain, and many other types of noise. With less noise in your video your video will compress more efficiently and use less bandwidth and storage. The MPE also features advanced audio capabilities with 20 bit audio processing, 7-band Parametric EQ, and Dynamic Range Compression and Expansion. This will ensure your message gets through loud and clear.

capture

transcode

stream

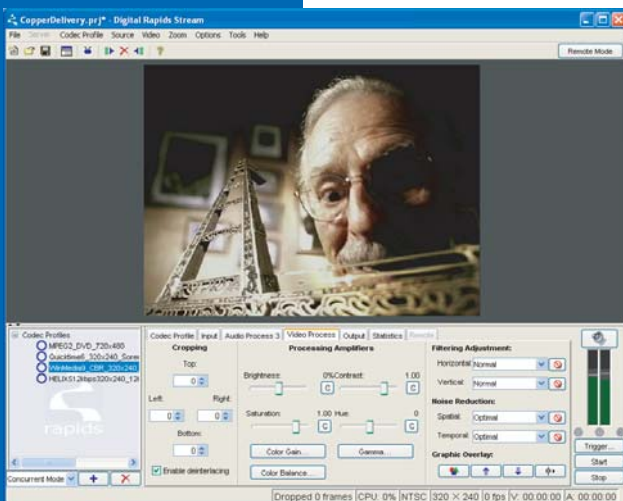


Image courtesy of Computer Cafe

"It is the best quality video on the web. Simply unbelievable. Our clients are blown away seeing previews at this quality. Grab your popcorn ... you can now watch TV on the Internet."
- David Ebner, Computer Cafe



focused on the future of digital video

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01:10:10:01



01:19:12:18



01:12:54:05



Specifications

Software Features

Easy to use interface with programmable environment for single click encoding.
Supports multiple output codec formats including Windows 9, Real Helix, Quicktime 6, AVI, MPEG4, Flash, and optional DivX, MPEG1 and MPEG2.
Multi-format video encoding with simultaneous output to a mixture of codecs and resolutions.
Multiple processors (SMP) and HyperThreading optimized.
Live monitoring of Video and Audio with interactive control of hardware pre-processing capabilities.
Supports programmable event triggers (GPI, Duration, custom keys).
Optimized transcoding from existing files (e.g., AVI/Quicktime/Quicktime Reference files) to multiple codecs.

capture

Form Factor

Half Length, Full Height PCI 64 bit /66Mhz
(32bit /33Mhz compatible)

Video and Audio Inputs

Supports NTSC and PAL video standards
1 – Composite Video (RCA)
1 – S-Video (Mini Din)
2 – Unbalanced Audio (L+R) on RCA
4 – Balanced Stereo Audio inputs on XLR

transcode

Hardware Video Processing

Motion Adaptive de-interlacing
3:2 and 2:2 inverse telecine processing
Aspect Ratio Conversion
Noise Reduction
Scaling and Cropping
Proc amp control

stream



Hardware Audio Processing

48kHz - 24 bits/sample
7-band Parametric EQ per channel (4)
Dynamic Range Compression / Expansion
Hardware sample rate conversion

Supported Video Capture & Encoding Formats

Windows Media 9
Real Helix
Quicktime 6
AVI (VFW/Directshow including DivX)
MPEG4
Flash (swf and flv)
Optional MPEG-1 / MPEG-2
SP@ML and MP@ML up to High@High; 4:2:0 or 4:2:2
192Kb to 100Mb/s encoded data rates
VBR / CBR
Elementary / Program Stream / Transport Stream
DVD / Video CD / Super Video CD

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