DMI
STREAMING & BEYOND

DMI System
Ingest & Encoder

DRC STREAM 1600WF

DRC STREAM Series

- ☐ 500 Composite , S-Video
- ☐ 1400 Composite , S-Video, Component
- ☐ 1400 Composite , S-Video, Component, SDI
- ☑ 1600 Composite , S-Video, Component, IEE1394, SDI
- ☐ 2000 Composite , S-Video, Component - 2 Channels
- ☐ 2600 Composite , S-Video, Component, IEE1394, SDI - 2 Channels

Codec Stream Support

- ☑ W Windows Media support
- ☑ F Flash AVC (MPEG4) support
- ☐ G 3GGP mobille solution support
- ☐ H H.264 IPTV TS streaming support

connector

- ☑ Break out cable
- ☐ Stream Bob
- ☐ SDI connector

Hardware Specification

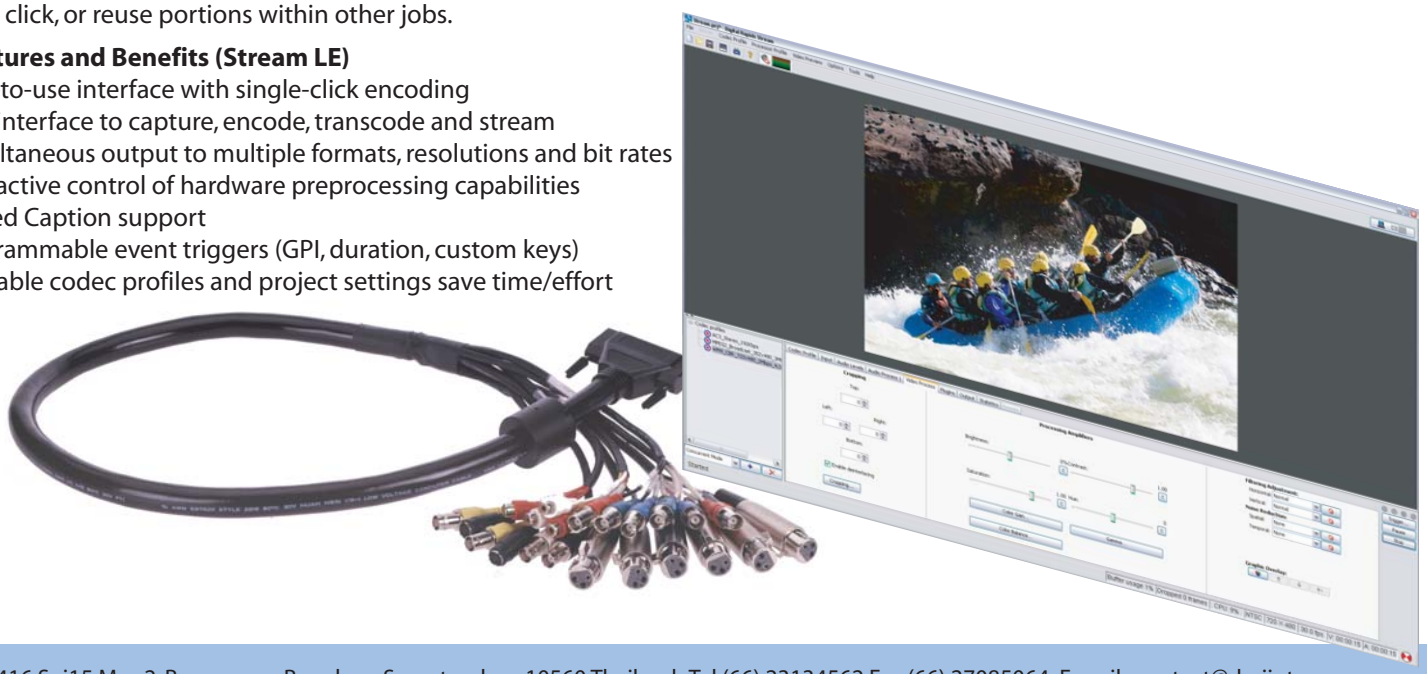
CPU : Intel Quad Core Xeon Processor (2.4 Ghz / 8 MB / 1066 Mhz)
RAM : 2GB ECC DDR2 FBDIMMS (667 MHz)
HDD : SATA2 500GB 300/7,200 rpm
Network : 2x Gigabit Ethernet Connection
Power Supply : 350 Watt
Chassis : Intel 1U Rack
USB port 2 Rear and 1 Front / 2 Hdd Fix Drive
Graphic ATI ES1000 with 16MB SDRAM

Stream LE

The Stream LE software leads you step-by-step through the process of creating multiple encoded formats. Simply choose your video and audio inputs (encode from a live input source, or transcode from existing digital media files), select the formats you wish to encode to, and choose your destination (media files or live streams). You can perform as many simultaneous real-time encodes as your system's CPU horsepower will allow. The Stream LE software lets you adjust compression settings and hardware pre-processing options as precisely as you want, from production-proven presets to a robust set of manually customizable parameters. Keyword shortcuts (tags) allow metadata, filenames and more to be automatically generated based on company and author information, time and date stamps, file info and more. Settings can be saved in reusable XML-based project files, letting you perform repeat tasks with a single click, or reuse portions within other jobs.

Key Features and Benefits (Stream LE)

* 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



223/416 Soi15 Moo2, Bangpreng, Bangboo, Samutprakarn10560 Thailand. Tel (66) 23134562 Fax (66) 27085064 E-mail : contact@dmiinter.com
Digital Media Interface Co.,Ltd. :
Version 1.1 May 2009

Stream Version Supported Formats

Version

☑ LE ☐ FE ☐ Live

Input Formats and Containers (File-Based)	LE	FE
AVI1	•	•
MPEG-1, MPEG-2 (including VOB), MPEG-4/H.264	o	•
QuickTime (Media and Reference files)1	•	•
Microsoft Windows Media / SMPTE VC-1	•	•
WAV (incl. RF64, Broadcast WAV), MP3 and AAC2 audio	•	•
Avid DNxHD® in MXF6	o	o
MXF1,3	o	o
Omneon (MOV)1	•	•
GXF1	o	o
LXF1	o	o
DV/DVCPro 25/50/100(HD) in MXF6, AVI	o	o
DV/DVCPro 25 in MOV	•	•
Image Sequence import (18 still image formats)		•
AES3 audio (SMPTE 331M and 302M, AES3-2003)		•

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

Output Formats (Streaming)	LE	FE	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)		o	
H.264 (AVC) progressive with AAC/MP3 Audio (RTMP for Adobe Flash, RTP/RTSP)	o	o	
On2 VP6 (Adobe Flash 8)	o	o	
3GPP (H.263, H.264, MPEG-4 Part 2, AAC and AMR audio)	o	o	
MPEG-2 in Transport Stream (UDP/RTP with RTSP)	o	•	
H.264 (AVC) in Transport Stream		o	o
Dolby® Digital and Dolby® Digital Plus (stereo or surround) in Transport Stream	o	o	o

Output Formats and Containers (File-Based)	LE	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)	o	o
H.264 (AVC) – DRC Studio AVC Encoder (H.264 Elementary Streams)		o
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)		o
Dolby® Digital and Dolby® Digital Plus (stereo or surround)	o	o
MPEG-4 Part 2 (via QuickTime®)	•	•
3GPP (H.263, H.264, MPEG-4 Part 2, AAC and AMR audio)	o	o
On2 VP6 (Adobe Flash 8)	o	o
AVI	•	•
MPEG-1 and MPEG-2 (4:2:0 and 4:2:2, compatible with CableLabs® VOD specifications)	o	•
QuickTime	•4	•
Avid DNxHD® in MXF6	o	o
MXF1,3		o
GXF1		o
LXF1		o
Omneon (MOV)1	o	o
DVCPro 25/50/100(HD) in AVI	o	o
DVCPro 25/50/100(HD) in MXF6, MOV		o
RealVideo / RealAudio (Helix) 9 & 10	•	•
Image Sequence (18 still image formats)		•
WAV audio (multi-channel, RF64, Broadcast WAV)	•	•
AES3 audio (SMPTE 331M, AES3-2003)	•	•
AAC audio (Nero)	o	o
MP3 audio (stereo and surround)	o	•
Closed Caption file (SCC, SAMI, SRT)5	•	•

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Stream Format Options

Below are highlights of just some of the optional codec and container format modules available for DRC-Stream, StreamZ, StreamZHD and Digital Rapids Transcode Manager. Note that some of these modules may be included as standard with select system configurations. Please see the Supported Formats chart for details of version compatibility and bundling. Select sets of modules may also be available in bundles for easy ordering; please ask your Digital Rapids representative for details

Digital Rapids Studio AVC Encoder

The Digital Rapids Studio AVC Encoder options provide premium-quality AVC/H.264 (MPEG-4 Part 10) live streaming or file-based encoding meeting the stringent requirements of professional applications and distribution platforms including VOD, IPTV and Blu-ray.The Studio AVC Encoder supports Baseline, Main and High AVC/H.264 profiles, with full configurability of levels and parameters, and interlaced or progressive output. Closed Caption data can be embedded in H.264 Elementary Streams with support for EIA-608, EIA-708 and SCC. Stream FE software or Digital Rapids Transcode Manager is required.

The Studio AVC Encoder is available by itself or as a bundle:

DRC Studio AVC Encoder — AVC/H.264 video encoding to Elementary Streams (files or RTP streams)

DRC Studio AVC Encoder Bundle — AVC/H.264 video encoding to Elementary Streams (files or RTP streams) and output to .MP4 files, plus flexible multiplexing of H.264 video and audio streams into Transport Streams with muxing technology from Manzanita Systems

Flexible muxing architecture enables simultaneous output of multiple Elementary and Transport Streams in a single step while eliminating redundant encoding (e.g. multiple Transport Streams with the same video but differing audio such as languages)

AAC-LC, HE-AAC and MPEG Layer 2 audio support included (Dolby Digital/AC-3 and Dolby Digital Plus audio support available as an additional option)

DRC AVC for Flash

Two optional modules support the creation of premium-quality H.264-based video for Adobe® Flash® Player (version 9 and higher), Adobe Media Player and Adobe AIR based applications. Both modules output progressive H.264 with Baseline or Main AVC/H.264 profiles, and include HE-AAC, AAC-LC and Thomson MP3 audio support.

DRC AVC for Flash, File Only — encoding and transcoding to files (FLV/F4V/MP4/MOV/M4V/3GP) for on-demand Flash applications from live, tape-based or media file inputs

DRC AVC for Flash — all of the features of the file-only version, plus live H.264 streaming over RTMP protocol to Adobe Flash Media Server or equivalent. Also supports progressive H.264 streaming over RTP/RTSP. Supports simultaneous archive to file during live streaming

MXF Import

Import media packaged in the MXF (Material eXchange Format) file format

This option "extracts" the media essence stored within the MXF file; additional codecs may be required for decoding the compressed media itself

Powered by OpenCube technology

Compatible with Stream LE, Stream FE and Digital Rapids Transcode Manager

MXF Import/Export

Import and export media packaged in the MXF (Material eXchange Format) file format

This option "extracts" or "packages" the media essence stored within the MXF file; additional codecs may be required for encoding and decoding the compressed media itself

Powered by OpenCube technology

Requires Stream FE or Digital Rapids Transcode Manager

DNxHD Import/Export

Import Avid DNxHD® compressed media files, and encode or transcode to the DNxHD format from live, tape or file-based inputs

Supports DNxHD compressed media in MXF container

Requires MXF Import/Export option (sold separately, or as a bundle with DNxHD codec)

Requires Stream FE or Digital Rapids Transcode Manager

3GPP/Mobile Encoder

Encoding to files and live streaming for 3GPP and other mobile devices

Includes H.263, H.264 and MPEG-4 Part 2 video with AAC-LC or AMR audio

Compatible with Stream LE, Stream FE and Digital Rapids Transcode Manager (please specify software level when ordering)

GXF Import

Import media packaged in the GXF file format (common with Grass Valley servers)

This option "extracts" the media essence stored within the GXF file; additional codecs may be required for decoding the compressed media itself

Compatible with Stream LE, Stream FE and Digital Rapids Transcode Manager

GXF Import/Export

Import and export media packaged in the GXF file format (common with Grass Valley servers)

This option "extracts" or "packages" the media essence stored within the GXF file; additional codecs may be required for encoding and decoding the compressed media itself

Requires Stream FE or Digital Rapids Transcode Manager

LXF Import

Import media packaged in the LXF (Leitch/Harris server) file format

This option "extracts" the media essence stored within the LXF file; additional codecs may be required for decoding the compressed media itself

Compatible with Stream LE, Stream FE and Digital Rapids Transcode Manager

LXF Import/Export

Import and export media packaged in the LXF (Leitch/Harris server)

This option "extracts" or "packages" the media essence stored within the LXF file; additional codecs may be required for encoding and decoding the compressed media itself

Requires Stream FE or Digital Rapids Transcode Manager

Omneon MOV Export

Output MOV-wrapped media files compatible with Omneon servers

This option packages the media essence into an Omneon-compatible MOV file; additional codecs may be required for encoding the compressed media itself

Compatible with Stream LE, Stream FE and Digital Rapids Transcode Manager

On2 VP6 Encoder for Adobe® Flash® 8

Available in File (encoding to files from live, tape-based or media file inputs) or File+Live (adds Live Flash Video streaming with Flash Media Server or equivalent) models

Encode to FLV or SWF file formats

Supports MP3 audio with On2 VP6 video (standalone MP3 audio is a separate option)

Supports simultaneous archive to file during live On2 VP6 streaming

Dolby® Digital (AC-3) and Dolby Digital Plus

Four optional modules support the encoding of audio in the Dolby Digital (AC-3) and Dolby Digital Plus formats.

Dolby Digital Plus Stereo, File-Only — supports file-based encoding and transcoding of Dolby Digital and Dolby Digital Plus stereo audio

Dolby Digital Plus Stereo — supports live streaming (multiplexed into Transport Stream with Stream FE) and file-based encoding/transcoding of Dolby Digital and Dolby Digital Plus stereo audio

Dolby Digital Plus Surround, File Only — supports file-based encoding and transcoding of Dolby Digital and Dolby Digital Plus stereo or surround audio

Dolby Digital Plus Surround — supports live streaming (multiplexed into Transport Stream with Stream FE) and file-based encoding/transcoding of Dolby Digital and Dolby Digital Plus stereo or surround audio

AAC Audio Encoder

AAC-HE and AAC-LE audio encoding (to files, or multiplexing into live streams with Stream FE)

Thomson MP3 Encoder

Stereo and multi-channel surround encoding to MP3 audio files