# DV / DVCPRO

## Comprehensive A/C Codec Library

Largest video codec libraries on earth, supporting nearly every major format in use today in both consumer and professional markets.

MainConcept offers various DV / DVCPRO Codec Packages that provide encoder and decoder components for DV, DVCPRO 25, DVCPRO 50 and DVCPRO 100.

They support consumer DV 25 Mbps (IEC-61834), DVCPRO 25/50 Mbps (SMPTE 314M), and DVCPRO HD in 720 50/60p and 1080 50/60i (SMPTE 370M). All major YUV and RGB color spaces are supported. DVCPRO HD delivers considerably higher picture quality since it allows video data rates at 100 Mbps and also supports the YUV 4:2:2 colorspace. The Codec Packages include everything for decoding and encoding DV, DVCPRO 25/50 and DVCPRO 100 frames.

## FEATURES

- Supports the IEC 61834, SMPTE 314M and SMPTE 370M – 2002 standards.

- Support for all major RGB and YUV formats as input/output formats.

- Support for DVCPRO HD (DV 100) 1080i50, 1080i60, 720p60, 720p50 modes:

  - 1280x720 50 fps progressive

  - 1280x720 59.94 fps progressive

  - 1920x1080 25 fps interlaced

  - 1920x1080 29.97 fps interlaced

- 16:9 support (only mode supported in DV100).

- Chroma Format 4:2:2 (50/100 Mbps), 4:1:1 (25 Mbps).

- Interlace support.

- Internal Resampling can be switched off (for speed and quality preservation when decompressing from DV100, editing, then compressing back to DV100):

  - 960x720 50/59.94 fps progressive

  - 1280x1080 29.97 fps interlaced

  - 1440x1080 25 fps interlaced

- Available bitrates 25 Mbps, 50 Mbps and 100 Mbps.

- DV DIF Parser pull filter that reads and parses raw DV DIF files.

- Preview quality mode.

- Support for 16 cores in Encoder and Decoder to improve performance.

- Video for Windows API support.

# STREAM TYPES & FORMATS

**Elementary Stream:**
Generic DV / DV 25, DVCPRO 25, DVCPRO 50 and DVCPRO 100 (HD) Elementary Streams

**DIF:**
Generic DV / DV 25, DVCPRO 25, DVCPRO 50 and DVCPRO 100 DIF Streams

**AVI:**
Generic DV / DV 25, DVCPRO 25, DVCPRO 50 and DVCPRO 100 AVI Streams

**MXF:**
Panasonic P2 DVCPRO 25, P2 DVCPRO 50, P2 DVCPRO HD (Specialized Operational Pattern "Atom" SMPTE 390M); Sony XDCAM DV (DVCAM) (OP1a SMPTE 378M, DV video mapping SMPTE 383M)

# MAINCONCEPT DV / DVCPRO SDK PACKAGES

### DV/DVCPRO 25 ENCODER SDK

DV (Digital Video) Encoding SDK for creating media in the DV (25 mbps) format.

### DV/DVCPRO 25 DECODER SDK

DV (Digital Video) Decoding SDK for playing back media in the DV (25 mbps) format.

### DV/DVCPRO 25/50 ENCODER SDK

DV (Digital Video) and DVCPRO 50 Encoding SDK for creating media in the DV (25 mbps), and the DVCPRO (50 mbps) format.

### DV/DVCPRO 25/50 DECODER SDK

DV (Digital Video) and DVCPRO 50 Decoding SDK for playing back media in the DV (25 mbps), and the DVCPRO (50 mbps) format

### DVCPRO HD ENCODER SDK

DV (Digital Video), DVCPRO 50 and DVCPRO 100 Encoding SDK for creating media in the DV (25 mbps), and DVCPRO (50 and 100 mbps) formats.

### DVCPRO HD DECODER SDK

DV (Digital Video), DVCPRO 50 and DVCPRO 100 Decoding SDK for playing back media in the DV (25 mbps), and DVCPRO (50 and 100 mbps) formats.

# COMPONENTS

| DV / DVCPRO 25 ENCODER SDK | DVCPRO 25 Video Encoder<br>DV Multiplexer |
| --- | --- |
| DV / DVCPRO 25 DECODER SDK | DVCPRO 25 Video Decoder<br>DV Splitter<br>DV Dif Parser |
| DV / DVCPRO 25/50 ENCODER SDK | DVCPRO 25/50 Video Encoder<br>DV Multiplexer<br>MXF Multiplexer |
| DV / DVCPRO 25/50 DECODER SDK | DVCPRO 25/50 Video Decoder<br>DV Splitter<br>MXF Demultiplexer<br>DV Dif Parser |
| DVCPRO HD ENCODER SDK | DVCPRO HD Video Encoder<br>DV Multiplexer<br>MXF Multiplexer |
| DVCPRO HD DECODER SDK | DVCPRO HD Video Decoder<br>DV Splitter<br>MXF Demultiplexer<br>DV Dif Parser |

# TECH SPECS

- Microsoft Windows 10 (64-bit, x86 and ARM)
- Apple macOS 10.11 and newer (64-bit x86), macOS 11 and newer (M1)
- Linux Ubuntu 14.04 LTS, CentOS 7.9 (64-bit, x86), Ubuntu 18.04 (64-bit, ARM)

For Windows, Mac OS X and Linux, the codec package consists of a Low Level API (in the C programming language). Under Windows, it additionally includes DirectShow® filters for decoding and encoding.

**MORE INFORMATION:**
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**REQUEST YOUR DEMO SDK:**
WWW.MAINCONCEPT.COM/LICENSING-FORM.HTML