

ADVC1000

Advanced Digital Video Converter
Broadcast-quality DV / SDI Converter

AV/C-to-RS422
device control
conversion

Supports both SDI
embedded audio
and AES/EBU

Award-Winning DV
Codec Technology

DV-to-SDI conversion
with perfect signal
synchronization
to external
reference signals

Windows and Mac
OS Compatible

NTSC and PAL
Compatible



canopus



ADVC1000 is a professional, high-quality bidirectional SDI/DV video converter designed for use with broadcast studio equipment. Featuring front-side controls and LCD display, analog video and unbalanced audio outputs for monitor preview, and a solid half 19-inch rack mount design, ADVC1000 is an ideal SDI in/out solution for any DV interface in a studio environment.

Proven DV Codec Technology

At the heart of the ADVC1000 is Canopus's proprietary DV codec chip providing the industry's best picture quality preservation and locked audio support during SDI to DV conversion. Locked audio ensures perfect audio and video synchronization at all times.

Key Features

- > Canopus's proprietary DV technologies provide the best picture quality preservation
- > SDI and DV I/O - Digital audio I/O (AES/EBU) - Reference input
- > Analog video and unbalanced audio output (for monitor preview)
- > Quick configuration using front panel controls
- > Front LCD panel for status and settings display
- > 9-pin serial port (AV/C-to-RS422 command convert function)
- > Solid half 19-inch rack mount design
- > NTSC and PAL compatible
- > Windows and Mac OS compatible

Perfect Signal Synchronization*

- Canopus "PerfectSync" (patent pending)

Canopus has realized a perfect signal synchronization output to "house" sync for DV-to-SDI conversion. ADVC1000 features original technology to control the transfer rate of IEEE1394 communication, which prevents skip/hold frames and produces perfect conversion of all frames for DV-to-SDI conversion.

VTR Control by AV/C-RS422 Conversion

ADVC1000 converts DV device control signals to RS422, to control an external VTR. Such control makes it possible to take in data from professional VTRs such as Digital BetaCam from any standard DV editing software that features DV device control.

Professional Video System Input

Reference input and LTC input/output can be utilized to create a professional video editing system with editors or switchers.

- > Reference Input
- > LTC input/output
- > Reciprocal TC conversions (LTC, VITC, DV TC)

Four-channel Embedded Audio Support

SDI supports up to four channels of embedded audio. It transfers professional level video/audio signals and can connect to long distance transmission systems. ADVC1000 has AES/EBU terminals to support MA operation with a professional audio mixer.

Advanced Usability

ADVC1000 is quickly configurable. Front panel controls include a mode switch and menu selection buttons with an LCD display for conversion settings. ADVC1000 can operate as a stand-alone device not requiring a computer while keeping any preprogrammed settings.

Package Contents

- > ADVC1000 converter box
- > AC adapter
- > User Manual
- > 1 x FireWire cable (4-pin - 6-pin)

Technical Specifications

Digital Video Input/Output (DV)

- > 1 x 4-pin FireWire
- > 1 x 6-pin FireWire

Digital Video Input (SDI)

- > 2 x BNC (SDI and Active Through, SMPTE 259M-C)

Digital Video Output (SDI)

- > 2 x BNC (SDI, SMPTE 259M-C)

Analog Video Output (For monitoring)

- > 1 x S-Video (4-pin miniDIN)
- > 1 x composite video (RCA)

Digital Audio Input

SDI

- > Embedded audio (SMPTE 272M-A, 20-bit/48kHz, locked)
- > 4-channel input support
 - For SDI - DV (2ch): ch1/2 or ch3/4 (choose either)
 - For SDI - DV (4ch): converts ch1~ch4 to 32kHz/12 bit/ch1~ch4

AES/EBU

- > 2 x BNC (channel 1/2, channel 3/4)
- > 32kHz, 44.1kHz, 48kHz, 16-bit, 20-bit, 24-bit unlocked/locked

DV

- > 32kHz, 44.1kHz, 48kHz, 16bit, 2-channel unlocked/locked
- > 32kHz, 12-bit, 4-channel unlocked/locked

Digital Audio Output

SDI

- > Embedded audio (SMPTE 272M-A, 20-bit/48kHz, locked)
- > 4-channel output support
 - For DV (48kHz/2-channel) - SDI conversion, a copy of channel 1/2 is output to channel 3/4

AES/EBU

- > 2 x BNC (channel 1/2, channel 3/4)
- > 48kHz (locked) or AES input through

DV

- > 48kHz, 16-bit, 2-channel locked
- > 32kHz, 12-bit, 4-channel locked

Analog Audio Output (for monitoring)

- > 2 x RCA (unbalanced)
 - Select output channel: channel 1/2, channel 3/4, channel 1+3/2+4 mix or 1+2+3+4 mix

Timecode

- > 1 x BNC LTC input
- > 1 x BNC LTC output
- > VITC input (decoded from SDI input)
- > VITC output (encoded in SDI output, line selection available)

REF In

- > 2 x BNC B.B. input (input and loop through, automatic 75 Ohm ON/OFF)
- > SDI output available by REF sync

Device Control

- > 1 x D-SUB 9-pin (female) RS422A
 - AV/C-to-RS422A command conversion feature

Power

- > DC-12V, 1.2A (AC adapter)

Unit Dimensions

- > Width 215mm x Depth 240mm x Height 44mm

* For NTSC video conversion using Windows 2000, PerfectSync operation cannot be guaranteed due to a limitation of the operating system

Service and Support

- > Three-year limited warranty