PURPOSE

ADVC1000
Advanced Digital Video Converter

Broadcast-quality Bidirectional SDI/DV Conversion
ADVC1000 is a professional, high-quality bidirectional SDI/DV video converter designed for use with broadcast studio equipment. Canopus PerfectSync technology ensures perfect conversion of all frames during DV-to-SDI conversion. 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.

ADVC1000: Key Features

- Innovative DV technologies from Canopus 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-RS422 command convert function)
- Half 1U 19-inch rackmount design
- NTSC and PAL compatible
- Windows and Mac OS compatible

ADVC1000 Front

ADVC1000 Rear

Perfect Signal Synchronization: Canopus "PerfectSync"
(patent pending)

Canopus has realized perfect signal synchronization output with an external reference signal (house sync) for Windows* and Mac OS based DV-to-SDI conversion. ADVC1000 features original technology to control and synchronize the transfer rate of IEEE 1394 communication

with an external reference signal. This prevents skipped and duplicate frames and produces perfect conversion of all frames during DV-to-SDI conversion.

Read more about Perfect Signal Synchronization.

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

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 multi-channel audio 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.

ADVC1000: Specifications
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, 20bit/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

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 thru, automatic 75 Ohm ON/OFF)
- SDI output available by REF sync

Device Control

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

Power

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

Unit Dimensions

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

Service and Support:

- 3-year limited warranty
- Access to the Canopus Registered Users Web site at www.canopus.com when you register your product in an active Canopus User Account