

ADVC3000

High-Quality
Analog/Digital
Video Conversion



Key Features

- Connects broadcast video equipment to FireWire-equipped computers for video editing
- Converts common broadcast digital and analog video and audio formats
- Rack-mount capable
- Compatible with Windows and Mac operating system-based DV editing systems
- Compatible with leading editing and DVD authoring applications including Grass Valley EDIUS®, Sony Vegas, Apple Final Cut Pro and iMovie, Avid Xpress DV, Adobe Premiere Pro, Avid Liquid, Ulead MediaStudio Pro, and Windows Movie Maker
- No drivers or software applications to install
- NTSC and PAL compatible

Our ADVC3000 is designed to meet the conversion requirements of broadcasters, cable operators, video professionals, and post-production operations.

Housed in a 2 rack-unit design, the ADVC3000 combines and enhances the features of our ADVC700 and ADVC1000 converters—and, in addition, can convert between analog and DV, DV and SD-SDI, and analog and SD-SDI.

Perfect Signal Synchronization

In studio environments, frame accuracy is essential for precise offline/online editing. The ADVC3000 delivers this accuracy through its use of Canopus® PerfectSync technology.

PerfectSync technology controls and synchronizes the transfer rate of FireWire (IEEE 1394) communication with an external reference signal. This process prevents skipped and duplicate frames and produces perfect frames during analog-to-DV and SDI-to-DV conversion.

By contrast, many analog-to-DV converters adjust their output by skipping and/or duplicating frames to synchronize the DV signal to an external sync signal's frame frequency. In these converters, there is no guarantee that all input frames will output to DV accurately without frame repetition and/or frame drops.

DV Signal Conversion For VTR Control

The ADVC3000 converts DV device control signals to RS-422 signals for external VTR control. Such control makes it possible to take in data from professional VTRs, such as Digital Betacam decks, through any standard DV editing software that features DV device control.





Specifications

Video Format

NTSC, PAL, SECAM (input only)

Digital Video

4-pin FireWire, 6-pin FireWire. SDI in (BNC), SDI active-through (BNC), 2 x SDI out (BNC)

Analog Video Input

S-Video composite (RCA), component (3 x BNC)

Analog Audio Input

- Stereo unbalanced (2 x RCA)
- 4-channel balanced (2 x XLR-3-31 female; 1-gnd, 2-hot, 3-cold)

Analog Video Output

S-Video, composite (BNC), component Y,Pb,Pr (3 x BNC)

Analog Audio Output

- Stereo unbalanced (2 x RCA)
- 4-channel balanced (2 x XLR-3-32 male; 1-gnd, 2-hot, 3-cold)

Time Code

LTC in (BNC), LTC out (BNC), VITC in (decoded from SDI input), VITC out (encoded in SDI output, line selection available)

Reference

Input (BNC), loop-through (BNC), output (BNC)

Device Control

AV/C over IEEE 1394, RS-422A (bi-directional conversion)

Display

- LCD configuration menu, stereo audio peak
- Meters: -48 dB to 0 dB (FS) display, -17 dB to 0 dB (FS) peak hold

Power

100-240V AC

Environmental Characteristics

- Operating temperature: 10 to 35°C
- Storage temperature: -20 to 60°C
- Maximum humidity: 80%

Dimensions

- Width: 430 mm (16.93 in.)
- Height: 88 mm (3.46 in.)
- Depth: 270 mm (10.63 in.)

Minimum Computer System Requirements

Windows PC

- Windows 2000 (Service Pack 3 or higher), Windows XP Home, or Windows XP Professional (Service Pack 1 or higher)
- DirectX 8.0 or higher

Mac

- Mac OS X (10.2.7/10.2.8/10.3/10.4.x)

Note: A video-capture card or OHCI FireWire connection is required to capture DV.

Service and Support

1-year limited warranty

Package Contents

- ADVC3000 converter unit
- Power cable
- User manual
- 1 x FireWire cable (4-pin to 6-pin)

Grass Valley™ products from Thomson provide comprehensive, multi-format support for a wide range of professional video uses, from those in corporate media centers and educational institutions to those in concert and sports arenas, convention centers, and houses of worship.

These solutions include the ADVC® line of analog-digital conversion products. Built on reliable and highly robust Canopus technology, they provide maximum performance and reliability for high-demand professional video production environments.

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