

# ADVC1000

## HIGH-QUALITY DIGITAL VIDEO CONVERSION

Housed in a solid, partial-width 19-inch rack-mount design, the ADVC1000 features analog video and unbalanced audio outputs for monitor preview, front-side controls, and an LCD display.



The ADVC® 1000 is an ideal SDI input/output solution for any DV interface in a studio environment.

Housed in a solid partial-width 19-inch rack-mount design, the ADVC1000 features analog video and unbalanced audio outputs for monitor preview, front-side controls, and an LCD display.

### Perfect Signal Synchronization

In studio environments, frame accuracy is essential for precise offline/online editing. The ADVC1000 delivers this accuracy through its use of PerfectSync technology.

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

By contrast, many SDI-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 ADVC1000 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.

## KEY FEATURES

- Connects broadcast video equipment to FireWire (IEEE 1394a)-equipped computers for video editing
- Rack-mount capable (rack mount brackets available separately)
- Compatible with Windows (including Windows 7) 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
- Works with many FireWire 800 (IEEE 1394b)-equipped computers by means of an appropriate adapter cable (customer supplied)



## PACKAGE CONTENTS

- ADVC1000 converter box
- AC adapter
- User manual
- 1 x FireWire (IEEE 1394a) cable (4-pin to 6-pin)

## SPECIFICATIONS

### Video Format

NTSC, PAL

### Digital Video

- 4-pin FireWire (IEEE 1394a)
- 6-pin FireWire (IEEE 1394a)
- SDI in (BNC)
- SDI active-through (BNC)
- 2 x SDI out (BNC)

### Digital Audio Input

- SDI 4-channel embedded audio: SMPTE 272M-A, 20-bit, 48 kHz, locked
- AES/EBU 4-channel (2xBNC): 32, 44.1, 48 kHz; 16-, 20-, 24-bit; unlocked/locked
- DV 2-channel: 32, 44.1, 48 kHz; 16-bit; unlocked/locked
- DV 4-channel: 32 kHz, 12-bit, unlocked/locked

### Digital Audio Output

- SDI 4-channel embedded audio: SMPTE 272M-A, 20-bit, 48 kHz, locked
- AES/EBU 4-channel (2 x BNC): 48 kHz; 16-, 20-, 24-bit; locked (or AES input through)
- DV 2-channel: 48 kHz, 16-bit, locked

### Analog Video Output

S-Video, composite (RCA)

### 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)

### Device Control

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

### Display

LCD configuration menu

### Power

Includes DC adapter (12V, 1.2A)

### Environmental Characteristics

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

### Dimensions

- Width: 215 mm (8.46 in.)
- Height: 44 mm (1.73 in.)
- Depth: 241 mm (9.49 in.)

### Minimum System Requirements

#### Windows PC

- Windows 2000 (Service Pack 3 or higher)
- Windows XP Home, Windows XP Professional (Service Pack 1 or higher)
- Windows Vista Home Basic, Windows Vista Home Premium, Windows Vista Business, Windows Vista Ultimate (Service Pack 1 or higher)
- Windows 7 Home Premium, Windows 7 Professional, Windows 7 Ultimate
- DirectX 8.0 or higher

#### Mac

- Mac OS X (10.2.7/10.2.8/10.3/10.4.x /10.5/10.6)

Note: A video capture card or OHCI FireWire (IEEE 1394) connection is required to capture DV.

## DEALERS/RESELLERS

To find your local reseller or dealer for Grass Valley professional audio video products, please visit [professional.grassvalley.com/sales/](http://professional.grassvalley.com/sales/).

## SERVICE & SUPPORT

Twelve-month limited warranty with service provided through local resellers. Additional support available on a contractual basis.