



# ADVC700

HIGH-QUALITY ANALOG/DIGITAL  
VIDEO CONVERSION

A 19-inch breakout box with component video, composite, S-Video, and balanced and unbalanced audio I/O, the ADVC700 offers high-end features, including LTC input/output and RS-422 signal conversion for professional VTR control.



The ADVC<sup>®</sup>700 is a bi-directional analog/DV video converter that features Canopus<sup>®</sup> PerfectSync technology to ensure impeccable conversion of every frame.

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## Perfect Signal Synchronization

In studio environments, frame accuracy is essential for precise offline/online editing. The ADVC700 delivers this accuracy through its use of 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 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 ADVC700 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 1394)-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 Thomson Grass Valley EDIUS<sup>®</sup>, 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



## Package Contents

- ADVC700 unit
- AC adapter
- 1 x FireWire (IEEE 1394) cable (4-pin to 6-pin)
- User manual
- 1 RU rack-mount brackets

## SPECIFICATIONS

### Video Format

NTSC, PAL, SECAM (input only)

### Digital Video

6-pin FireWire (IEEE 1394),  
4-pin FireWire (IEEE 1394)

### Digital Audio Input

- DV 2-channel: 48 kHz, 16 bit
- DV 2-channel: 32 kHz; 16-, 12 bit

### Digital Audio Output

- DV 2-channel: 48 kHz, 16 bit
- DV 2-channel: 32 kHz; 16-, 12 bit

### Analog Video Input

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

### Analog Audio Input

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

### Time Code

LTC in (BNC), LTC out (BNC)

### Reference

Input (BNC), loop-through (BNC)

### Device Control

AV/C over FireWire (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

Included DC adapter

### Environmental Characteristics

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

### Dimensions

- Width: 430 mm (16.93 in.)
- Depth: 245 mm (9.65 in.)
- Height: 44 mm (1.73 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 (IEEE 1394) connection is required to capture DV.

### Service and Support

1-year limited warranty

## HEADQUARTERS

Thomson Worldwide Headquarters  
46 Quai A. Le Gallo  
92648 Boulogne Cedex  
FRANCE

## DEALERS/RESELLERS

To find your local reseller or dealer for Thomson 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.