

CANOPUS ADVC-110

CANOPUS / Grass Valley ADVC-110 Advanced Digital Video Converter User Manual

Model: 77010150100

1. INTRODUCTION

The CANOPUS / Grass Valley ADVC-110 is a bidirectional media converter designed for professional and consumer use. It facilitates the conversion of video and audio signals between analog and digital formats. This device transfers media data via an IEEE-1394 (Firewire) port, and outputs through composite, Y/C (S-Video), and unbalanced stereo audio connections, and vice versa. This manual provides instructions for the proper setup, operation, and maintenance of your ADVC-110 unit.

2. SETUP

Follow these steps to set up your ADVC-110 converter:

1. **Unpack the Device:** Carefully remove the ADVC-110 unit from its packaging. Ensure all components are present.
2. **Power Connection:** The ADVC-110 can be powered via the IEEE-1394 (Firewire) cable from your computer if the port provides sufficient power. If your Firewire port does not supply power, or for stable operation, connect an optional 5V DC power adapter to the **DC IN 5V** port on the unit.
3. **Connect to Computer:** Use an IEEE-1394 (Firewire) cable to connect the **DV IN/OUT** port on the ADVC-110 to a compatible Firewire port on your computer. For some computers, a 6-pin to 9-pin Firewire adapter may be required (not included).
4. **Analog Input/Output Connections:**
 - For analog video input (e.g., from a VCR or camcorder), connect the composite video cable to the **VIDEO OUT** (yellow RCA) port and the S-Video cable to the **S VIDEO OUT** port.
 - For analog audio input, connect the stereo RCA audio cables to the **STEREO-AUDIO OUT-L** (red and white RCA) ports.
 - When converting from digital (Firewire) to analog, these ports will serve as outputs to your analog

recording or monitoring device.

5. **Driver Installation:** Upon connecting the ADVC-110 to your computer, the operating system (e.g., Windows 7) should automatically detect and install the necessary drivers. No additional software installation is typically required for basic device recognition.



Figure 1: Rear view of the ADVC-110 showing the DV IN/OUT, S VIDEO OUT, VIDEO OUT, R-AUDIO OUT-L, and DC IN 5V ports.

3. OPERATING INSTRUCTIONS

The ADVC-110 is designed for straightforward operation. Its primary function is to convert video and audio signals between analog and digital formats.

3.1. Bidirectional Conversion

The unit supports conversion in both directions:

- **Analog to Digital:** Connect your analog source (VCR, camcorder) to the ADVC-110's analog input ports (Composite, S-Video, RCA Audio). The ADVC-110 will convert these signals into a digital stream, which is then sent to your computer via the Firewire port.
- **Digital to Analog:** Connect your computer (with digital video editing software) to the ADVC-110's Firewire port. The ADVC-110 will convert the digital stream from your computer into analog signals, which can then be output to an analog recording device (e.g., VCR) or monitor via the analog output ports.

3.2. Software Compatibility

The ADVC-110 is compatible with various video editing and capture software applications that support IEEE-1394 (Firewire) input. Examples include Corel Video Studio Pro, Sony Vegas, and Apple iMovie. Refer to your software's documentation for specific capture and export procedures.

3.3. DIP Switch Settings

The ADVC-110 features internal DIP switches that may require adjustment depending on your specific video format (e.g., NTSC, PAL, SECAM) or other conversion parameters. Consult the detailed product manual or manufacturer's website for specific DIP switch configurations relevant to your region and desired conversion type. Incorrect settings can result in issues such as black and white video or displaced images.

3.4. Locked Audio Support

The ADVC-110 incorporates technology for locked audio support, which helps maintain synchronization between audio and video during the conversion process, minimizing common issues like audio drift.

3.5. Color Bar Reference

The unit includes a color bar reference feature, which can be useful for calibrating monitors and ensuring accurate color reproduction during video capture and playback.

4. MAINTENANCE

The ADVC-110 is designed for durability and requires minimal maintenance.

- **Cleaning:** Keep the unit clean by wiping it with a soft, dry cloth. Avoid using liquid cleaners or solvents, which may damage the casing or internal components.
- **Storage:** Store the device in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Handle the unit with care to prevent physical damage. Avoid dropping or subjecting it to strong impacts.
- **Disconnection:** For prolonged periods of inactivity, it is recommended to unplug the unit from its power source and disconnect all cables.

5. TROUBLESHOOTING

If you encounter issues with your ADVC-110, refer to the following common problems and solutions:

- **No Signal / Black and White Video / Displaced Images:**
 - Ensure all video cables (Composite, S-Video) are securely connected to the correct ports.
 - Verify the DIP switch settings on the ADVC-110 are correctly configured for your video format (NTSC, PAL, SECAM). Refer to the full product manual for details.
 - Check the input source (VCR, camcorder) for proper playback and output settings.
- **No Audio or Out-of-Sync Audio:**
 - Confirm that the RCA audio cables are correctly connected to the **R-AUDIO OUT-L** ports.
 - Check audio settings within your capture or editing software.
 - While the ADVC-110 features locked audio support, severe issues with the source material or software configuration can still cause synchronization problems.
- **Device Not Recognized by Computer:**
 - Ensure the IEEE-1394 (Firewire) cable is firmly connected to both the ADVC-110 and your computer.
 - Try connecting to a different Firewire port on your computer, if available.
 - Verify that your computer's Firewire port is functional and has the necessary drivers installed.
 - If your Firewire port does not supply power, ensure the optional 5V DC power adapter is connected and functioning.
- **Missing Required Cables/Adapters:**
 - The ADVC-110 typically does not include all necessary connection cables (e.g., RCA cables, S-Video cables, 6-pin to 9-pin Firewire adapters, 5V DC power adapter). These must be purchased separately based on your setup requirements.

If these steps do not resolve the issue, consult the manufacturer's support resources or a qualified technician.

6. SPECIFICATIONS

Brand	CANOPUS
Model Number	77010150100
Interface Type	RCA (Composite Video, Stereo Audio), S-Video (Y/C), IEEE-1394 (Firewire)
Number of Pins (Firewire)	7 (device specific, commonly connects to 6-pin or 9-pin Firewire ports)
Material	Electronic Components, Plastic
Package Dimensions	9.1 x 6.8 x 3 inches
Item Weight	1.3 pounds
First Available Date	December 19, 2005

7. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the documentation included with your purchase or visit the official CANOPUS / Grass Valley website. For technical support, product registration,

or service inquiries, please contact the manufacturer directly through their official support channels.