

VADDIO™ PRODUCTIONVIEW™ DV CAPTURE

Professional Digital Video Capture Interface for PC and MAC Platforms



Figure 1: ProductionVIEW DV Capture Front Panel (top) and the Rear Panel Connections (bottom)

Overview:

The Vaddio ProductionVIEW DV Capture interface is a high quality analog video to digital video converter and capture device with audio for both PC and Mac FireWire/1394 enabled computer platforms. As a part of the ProductionVIEW console suite of products, the DV Capture interface is the ultimate tool for capturing and converting live or prerecorded, analog video and pro audio feeds into professional quality DV format.

The DV Capture has standard definition video inputs that include composite video, S-Video and component (Y, P_B, P_R) video and a 6-Pin FireWire/1394 output. The DV Capture is well suited to be used with a professional audio mixer and is equipped with professional level, stereo line inputs on XLR connectors as well as stereo line level inputs on RCA connectors. Each channel can also be attenuated with the recessed level controls to ensure proper level matching between analog sources.

The Vaddio ProductionVIEW DV Capture interface is easy to use and is compatible with many of the most popular video software packages available today. The DV Capture has universal device drivers built-in for auto-recognition and driver installation when using Windows® XP or Windows 2000 and Macintosh computers with OS 9.0.4 and above.

Intended Use:

Before installing the Vaddio ProductionVIEW DV Capture, please read the entire manual thoroughly. The system was designed, built and tested for use indoors, and with the provided power supply and cabling. The use of a power supply other than the one provided or outdoor operation has not been tested and could damage the electronics and/or create a potentially unsafe operating condition.

Save These Instructions:

The information contained in this manual will help you install the Vaddio ProductionVIEW DV Capture. For reference, Vaddio keeps copies of Specifications, Installation and User Guides and most pertinent product drawings on the website. These documents can be downloaded from www.vaddio.com free of charge.

Important Safeguards:

Read and understand all instructions before using. Do not operate any electrical device if it has been dropped or damaged. In the case of damaged devices, a Vaddio technician must examine the product before operating it. To reduce the risk of electric shock, do not immerse in water or other liquids, and avoid extremely humid conditions.



**Use only the power supply provided with the ProductionVIEW DV Capture.
Use of any unauthorized power supply will void any and all warranties.**

Unpacking:

Carefully remove all of the parts from the packaging. Remove and identify the following parts of the ProductionVIEW DV Capture:

ProductionVIEW DV Capture, Part Number 999-5410-000 (North America model) includes:

- One (1) – ProductionVIEW DV Capture
- One (1) – 18 VDC Power Supply with AC North America AC Cord
- One (1) – 6' RCA to RCA x 3 cable (yellow, red & white)
- One (1) – 6' S-Video Cable
- One (1) – 6' 6-Pin to 6-Pin FireWire/1394 Cable
- User Manual (Document Number 341-600)

ProductionVIEW DV Capture, Part Number 999-5410-001 (International model) includes:

- One (1) – ProductionVIEW DV Capture
- One (1) – 18 VDC Power Supply with Euro and UK AC Cord
- One (1) – 6' RCA to RCA x 3 cable (yellow, red & white)
- One (1) – 6' S-Video Cable
- One (1) – 6' 6-Pin to 6-Pin FireWire/1394 Cable
- User Manual (Document Number 341-600)

Key Features:

- Converts analog video and audio to DV format.
- Compatible with a wide range of DV editing software (see list tested software on page 7).
- DV Capture automatically detects which video input (480i component, S-Video or composite) is connected to the device.
- DV Capture has a choice of either balanced (XLR) or unbalanced (RCA) left and right inputs for audio, with 24 dB attenuators on each input
- Compatible with both PC and Mac computers.
- Auto detection for NTSC and PAL video standards

Operating the ProductionVIEW DV Capture:

The ProductionVIEW DV Capture can be used as either a stand-alone device, or integrated with ProductionVIEW series of camera control consoles and switchers. To set up the DV Capture, connect up your choice of audio (balanced or unbalanced) and video (component, composite or S-video). Plug in the 6-pin FireWire/1394 cable and connect the other end to your computer FireWire/1394 input.

DV Capture is a true “plug and play” device, with no programming or configuration required. Once all your cabling is connected to DV Capture and to your computer, plug in the power supply, turn your computer on and launch your digital video capture or editing software.

Front Panel:

The front panel has a green LED power indicator light. When the power supply is plugged in, the LED illuminates.



Figure 2: Power light indicates when DV Capture is receiving power.

Connecting the Audio and Video Inputs on the Back Panel:



Figure 3: Back Panel Connections
Power, audio and video inputs (top), DV, audio out, video out and SD video input (bottom)

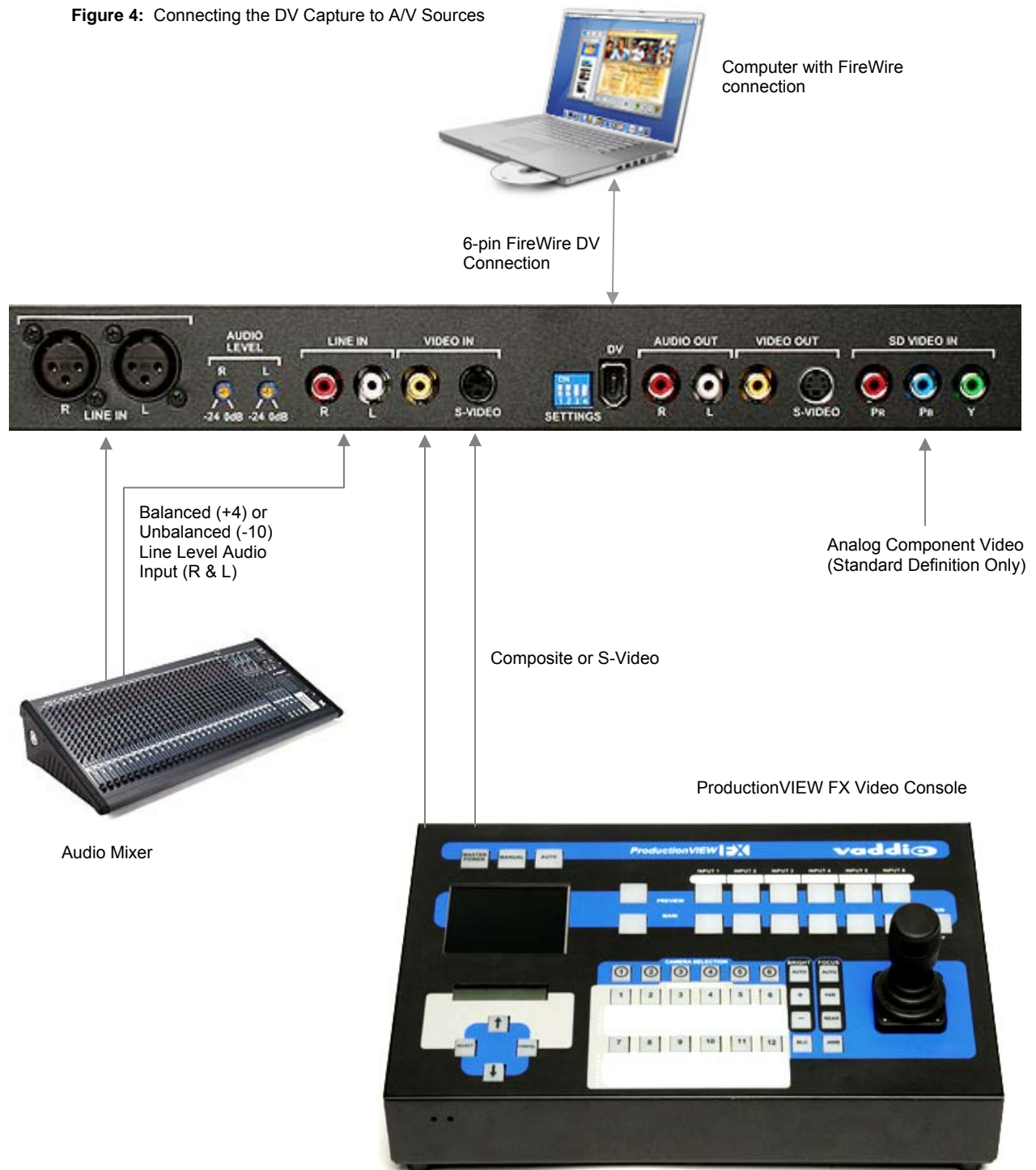
Back Panel Connections and Controls:

- 1) **Power:** 18 VDC Power Adapter – Use only the power supply provided.
- 2) **Audio Input:** Balanced Audio Line Inputs (right and left) on XLR connectors.
- 3) **Audio Level Controls:** -24 dB recessed attenuators for right and left channels of audio input
- 4) **Audio Input:** Unbalanced Audio Line Inputs (right and left) on RCA connectors.
- 5) **Composite Video Input:** Composite video input on an RCA connector.
- 6) **S-Video Input:** Input on a 4-Pin mini DIN connector – offers improved performance and is recommended highly over composite video input.
- 7) **DIP Switches Settings:** For configuring your DV Capture for TV input signal, computer software and audio settings.
- 8) **DV Output:** On 6-pin FireWire/1394 connector.
- 9) **Unbalanced Audio Output:** Line outputs (right and left) on RCA connectors.
- 10) **Composite Video Output:** Composite video output on an RCA connector.
- 11) **S-Video Output:** 4-Pin mini DIN connector -- offers improved performance and is recommended highly over composite video input.
- 12) **Component Video Input:** Standard Definition Only (480i) - Y, Pb, Pr Analog Component video inputs on RCA connectors.

Connecting the DV Capture to Audio and Video Sources:

The DV Capture can accept analog component (480i), composite or S-Video signals. Choose one of those three options, and connect video to only one. For audio, there is a choice of either balanced or unbalanced line inputs. As with the video options, choose only the balanced or unbalanced inputs.

Figure 4: Connecting the DV Capture to A/V Sources



For Windows-based Computers

Windows Minimum System Requirements:

- Processor: 800 MHz CPU or faster
- OS: Windows XP, Windows 2000
- RAM: 128 MB or higher
- Hard Disk: 500 MB or higher Ultra DMA 5400 RPM or faster with DMA enabled.
- Monitor/Graphics: Resolution of 1024 x 768, 32 bit color, DirectX 8.1 or later
- Sound: Standard Windows compatible sound card
- 1394 Port: OHCI-compliant 1394 card or built in port functioning properly. Texas Instruments or Agere based 1394 host controllers are recommended.
- Note: Most 1394 add-in cards are OHCI compliant including the DV Capture 1394 card.

Optimize your system for DV capture and editing:

It is highly recommended that you complete the following procedures to ensure smooth video capture.

1. Make sure all of your drives are defragmented. This is done in Windows under Accessories/System tools.
2. Make sure your drive has DMA enabled. This is done in Device Manager under Disk Drives. This procedure may require you to reboot after you have enabled DMA on your hard drive.
3. If possible use a separate drive, even an external FireWire drive for saving captured video.
4. Close all unnecessary programs and background tasks when recording or exporting video.

Hardware Installation: Hardware Installation:

WINDOWS Quick Start

1. Connect the 6 Pin 1394 cable directly between the DV Capture and computer. Connecting through a 1394 Hub/Repeater is not recommended.
2. Connect Audio/Video cables between your video devices and DV Capture.
3. Connect A/C Power adapter
4. Windows XP and Windows 2000 will automatically recognize the device and install drivers.
5. Once the device drivers are installed a "PYRO A/V Link" will appear under Windows Device manager as an Imaging Device. Vaddio uses the PYRO A/V Link engine for the ProductionVIEW DV Capture.
6. Start the Video capture or editing application.
7. Press the Play button on the video editor's preview window to begin previewing video. Press Record, or Capture button to begin recording to the computer hard drive.

Windows Software:

The drivers necessary for the DV Capture to operate with a Windows based PC are built into the operating system. Once you plug in the device, Windows will recognize it and the device will appear as an imaging device in Device Manager. If you already own video editing software such as Adobe Premiere, you are ready to connect your video devices and start capturing video.



For Apple Macintosh Computers

Mac Minimum System Requirements:

- Processor: 400 MHz or faster
- OS: Mac OS 9.0.4, OSX (Not in Classic Mode), OSX 10.02 (Jaguar)
- RAM: 128 MB or greater
- Monitor/Graphics: Resolution of 1024 x 768, 32 bit color
- Sound: Standard Macintosh sound system
- 1394 Port: Standard built-in 1394 port or OHCI-compliant 1394 add-in card

Note: Most 1394 add-in cards are OHCI compliant including, the DV Capture.

Optimize your system for DV capture and editing:

It is highly recommended that you complete the following procedures to ensure smooth video capture.

1. If possible use a separate drive, even an external FireWire drive for capturing video.
2. Close all unnecessary programs or disable extensions not required for recording or exporting video.

Hardware Installation: MAC – Quick Start

1. Connect the 6 Pin 1394 cable between the DV Capture and computer. Connect directly to the 1394 Host port. Connecting through a 1394 Hub/Repeater is not recommended.
2. Connect Audio/Video cables between your audio & video hardware and DV Capture.
3. Connect Power
4. Your Mac will automatically recognize the device.
5. Once the device has been detected “PYRO A/V Link” will appear under the profiler as shown on this page. Vaddio uses the PYRO A/V Link engine for the ProductionVIEW DV Capture.
6. Start your Video Editor application and you are ready to capture video
7. Press the Play button on your video editor’s preview window to begin previewing video. For iMovie, press Import to begin recording.

Capturing Video with your Video Capture/Edit Software (Windows & Mac)

When powered up, the DV Capture is ready to convert an analog video source into DV so you can capture video to your computer via your capture/edit software.

Video Source:

DV Capture will auto detect which video input connections have a video source and automatically use that source. Use the best video input source you have available, Component being best, S-VHS second best and RCA (Composite) the lowest quality video source.

Previewing Video in Video Editing Software:

With most video editing software, the interface includes a video preview window.

In some cases you must select the Movie Capture Window (Adobe Premiere).

- 1) Start your Video Editing software application.
- 2) Locate the video Preview Window or Movie Capture Window.
- 3) Once you have the video preview or capture window open, press PLAY on your video playback device.
- 4) Click PLAY on the video editing software preview window. Now you will see and most likely hear (depending on the software) your video playing on the computer.
- 5) Click the RECORD button on the video editing software and you will begin to record DV to your computer hard drive.

DIP Switch Configuration:

Position:	1	2	3	4
Up	7.5 IRE	▪ Mac ▪ Windows XP	▪ Windows 2000	12-bit, 32 kHz
Down	0 IRE	▪ Windows 2000	▪ Mac ▪ Windows XP	16-bit, 48kHz

Switch 1: Black level setting – either 7.5 IRE or 0 IRE. 0 IRE is primarily used in Japan

Switches 2 & 3: Set to match the timing of the operating system being used

Switch 4: Set for either 12-bit or 16-bit audio sampling rates

Video Editing Software Compatibility:

The DV Capture can be used with virtually any video editing software that is compatible with DV. We have tested DV Capture with the following software applications

- Video Studio® 9
- Video Studio 11
- Adobe® Premiere® Elements 3.0
- Sony Vegas® 6.0
- WMCAP.exe
- WinDV.exe
- DVIO.exe
- Windows MovieMaker®
- iMovie®
- Final Cut® Express HD
- QuickTime® Broadcaster *

* It is recommended not to switch between QuickTime Broadcaster and other applications. In testing, when QuickTime Broadcaster was launched, then another video capture or editing application was started, DV Capture stopped sending digital video to the computer, and DV Capture had to be rebooted.

Technical Specifications

ProductionVIEW DV Capture	
Capture Resolution:	NTSC – 720 x 480 @ 30 fps PAL – 720 x 576 @ 25 fps
Capture Format:	DV
Audio Capture:	12-bit 32 kHz 16-bit 48 kHz
Power Input:	18 VDC @ 1amp
Video Inputs:	Component (Y, Pb, Pr – 480i) – RCA-F S-Video - 4-pin Mini-DIN Composite – RCA Connector
Audio Inputs	Unbalanced (-10 dB) – Left/Right RCA-F Balanced (+4 dB) – Left/Right XLR-F
Audio Input Level Attenuators:	Dual recessed trim potentiometers (Left/Right) 24 dB Attenuation from unity gain (0 dB)
Video Outputs:	S-Video – 4-pin Mini-DIN Composite – RCA Connector
Audio Outputs:	Unbalanced (-10 dB) – Left/Right RCA-F
DV Output:	6-pin FireWire connector



Warranty Information:

Hardware* Warranty - One year limited warranty on all parts. Vaddio warrants this product against defects in materials and workmanship for a period of one year from the day of purchase from Vaddio. If Vaddio receives notice of such defects during the warranty period, they will, at their option, repair or replace products that prove to be defective.

Exclusions - The above warranty shall not apply to defects resulting from: improper or inadequate maintenance by the customer, customer applied software or interfacing, unauthorized modifications or misuse, operation outside the normal environmental specifications for the product, use of the incorrect power supply, improper extension of the power supply cable or improper site operation and maintenance.

Vaddio Customer service – Vaddio will test, repair, or replace the product or products without charge if the unit is under warranty and is found to be defective. If the product is out of warranty, Vaddio will test then repair the product or products. The cost of parts and labor charge will be estimated by a technician and confirmed by the customer prior to repair. All components must be returned for testing as a complete unit. Vaddio will not accept responsibility for shipment after it has left the premises.

Vaddio Technical support - Vaddio technicians will determine and discuss with the customer the criteria for repair costs and/or replacement. Vaddio Technical Support can be contacted through one of the following resources: e-mail support at support@vaddio.com or online at www.vaddio.com.

Return Material Authorization (RMA) number - Before returning a product for repair or replacement, request an RMA from Vaddio's technical support. Provide a technician with a return phone number, e-mail address, shipping address, and product serial numbers and describe the reason for repairs or returns as well as the date of purchase and proof of purchase. Include your assigned RMA number in all correspondence with Vaddio. Write your assigned RMA number on the outside of the box when returning the product.

Voided warranty – The warranty does not apply if the original serial number has been removed or if the product has been disassembled or damaged through misuse, accident, modifications, or unauthorized repair. Cutting the power supply cable on the secondary side (low voltage side) to extend the power to the device (camera or controller) voids the warranty for that device.

Shipping and handling - Vaddio will not pay for inbound shipping transportation or insurance charges or accept any responsibility for laws and ordinances from inbound transit. Vaddio will pay for outbound shipping, transportation, and insurance charges for all items under warranty but will not assume responsibility for loss and/or damage by the outbound freight carrier. If the return shipment appears damaged, retain the original boxes and packing material for inspection by the carrier. Contact your carrier immediately.

Products not under warranty - Payment arrangements are required before outbound shipment for all out of warranty products.

**Vaddio manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry standard practices.*

Other General Information:

Care and Cleaning:

Do not attempt to take this product apart at any time. There are no user-serviceable components inside.

- Do not spill liquids on the ProductionVIEW DV Capture
- Keep this device away from food and liquid
- For smears or smudges on the console, wipe with a clean, soft cloth.
- Do not use any strong or abrasive chemicals.

Operating and Storage Conditions:

Do not store or operate the ProductionVIEW DV Capture under the following conditions:

- Temperatures above 40°C (104°F) or temperatures below 0°C (32°F)
- High humidity, condensing or wet environments
- In inclement weather
- Dusty environments
- Under severe vibration



Toll Free: 800-572-2011 ▪ Phone: 763-971-4400 ▪ FAX: 763-971-4464

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