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Introduction

Captivator PCI, VideoLogic's PCI-based video capture card, supports the S-Video and composite video signal formats to provide you with low-cost videoconferencing and video capture.

Captivator PCI

Captivator PCI is a PCI-based video capture card that is supplied with Microsoft NetMeeting™ and trial versions of the most popular videoconferencing software packages. By connecting your video source to the card, you can communicate through your existing Internet service provider with other people on the World Wide Web.

The NewSoft™ multimedia software forms the heart of your video editing suite. You can capture AVI video clips or video stills, and, with the VideoWork software, edit these clips on a frame-by-frame basis to create your own video sequences, or use the Image Folio software to edit your video stills and convert them to various formats including BMP, JPG and GIF.

Captivator PCI/VC

The Captivator PCI/VC option includes all the software and hardware available with the basic Captivator PCI kit, plus a high-quality Philips color camera and the professional version of the VDOPhone™ videoconferencing software from VDOnet.

Hardware requirements

To run Captivator PCI or the PCI/VC option you need a Pentium 90 computer or above running Windows 95, with at least 8 MB of RAM and a PCI graphics card with at least 2 MB of RAM, running DirectX 2 compliant drivers (or above). It must comply with the PCI local bus specification and have a spare PCI bus slot.

To run the VDOPhone Professional software, available with Captivator PCI/VC, we recommend a Pentium 133 computer or above with a 28.8K modem for H.324 (direct dial) connections.

Before you continue

Make sure you read the latest product information in the readme.doc file in the folder \cappci\win95\disk1 on the VideoLogic Software Library CD-ROM.

The VideoLogic interactive installation guide

The interactive installation guide ensures that the correct drivers are installed and gives you access to other software. It replaces Windows Plug and Play, which installs the drivers and then leaves you to install other software. You can use either method to install the software, but we recommend using the interactive installation guide.

Manually installing the software

If you want to install the software using Windows Plug and Play, refer to the readme.doc file in the folder \cappci\win95\disk1 on the VideoLogic Software Library CD-ROM.
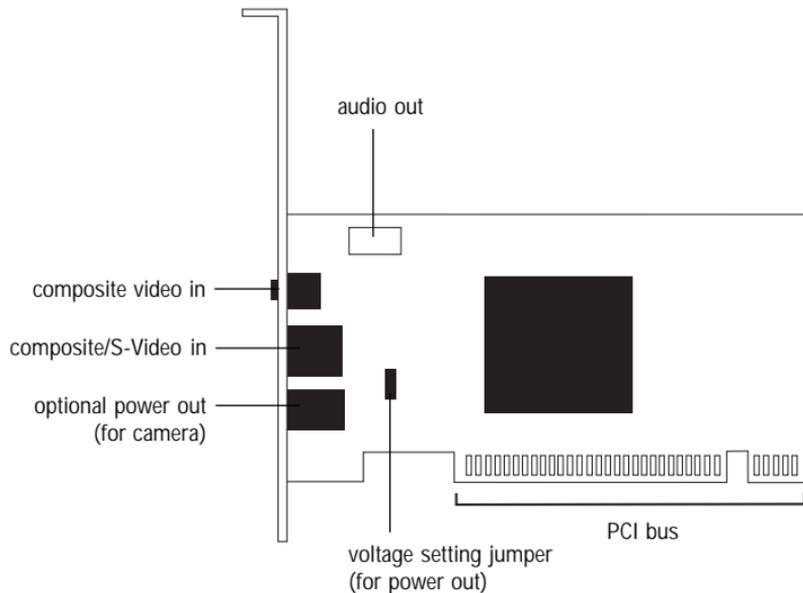
Handling Captivator PCI

Follow these guidelines to minimize the risk of electrostatic charges damaging the card:

- Keep the card in its protective packaging until you are ready to install it.
- Just before handling the card, touch the metal frame of your PC with the back of your hand to discharge any static electricity which may have built up on you or your clothes.
- Hold the card by the adapter bracket or by its edges; do not touch the circuit board.
- Do not place the card on top of your computer or on any other metal surface.
- Make sure that the card is not accidentally touched by anyone else.
- Handle the card with care to avoid damage to the components on the circuit board.

Installing Captivator PCI
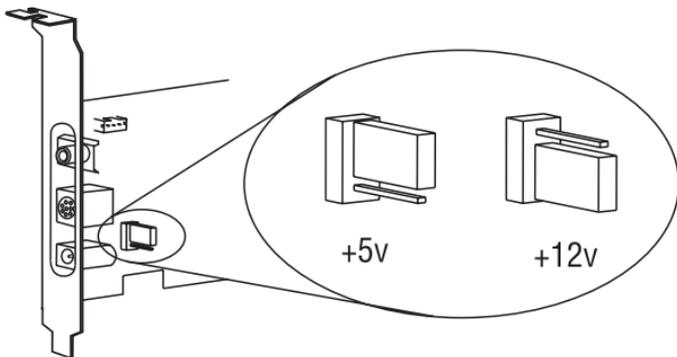
Before you continue

The following diagram shows the connectors on the card:

audio out

composite video in

composite/S-Video in

optional power out
(for camera)

PCI bus

voltage setting jumper
(for power out)

Voltage setting jumper

This sets the voltage for the power out connector. Although most cameras have their own power supply from batteries or mains, some smaller videoconferencing cameras can use the power out. Note that the voltage setting jumper does **not** affect the power sent through the 8-pin composite/S-Video connector, which outputs +5V (see page 15).

There are two settings, for +5V and +12V. Refer to your camera's documentation to find out which voltage setting it requires. To set the voltage, cover two of the three pins with the sleeve, as shown below.

Caution: Connecting your video camera to a power source of the wrong voltage can cause damage. Captivator's power out connector is factory-set to +5V. Make sure your camera uses this voltage or change it to +12V using the voltage setting jumper.
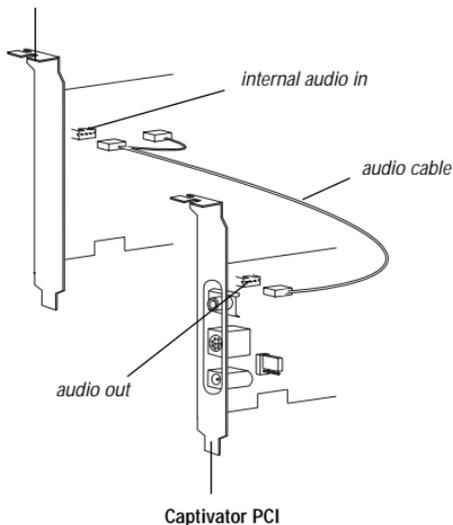
Internal audio connector (Captivator PCI/VC only)

With the Captivator PCI/VC option, audio is routed internally using the cable supplied. One end of the cable has a 3-pin connector, which fits into Captivator PCI. The other end has two 4-pin connectors, of which one should connect to your sound card, for example, a SoundBlaster card (you will not damage the card or camera if you use the wrong connector). The diagram below left shows how to connect the cable.

If your sound card is SonicStorm or Apocalypse 5D Sonic, the diagram below right shows the connector to use (for other sound cards, refer to page 14 for pin-out information).
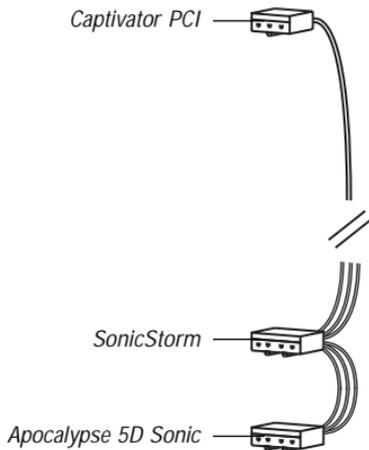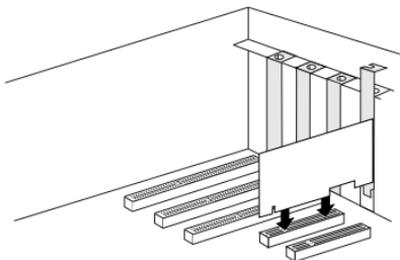
Installing the hardware

Warning: Always switch off your computer before removing the cover and observe the warnings specified in the manufacturer's documentation.

1. Switch off your computer, monitor, and any hardware devices such as printers connected to your computer. Leave the power cable connected to the power outlet so that your computer is grounded.

2. Remove the cover from your computer. You may need to refer to the documentation supplied with your computer for instructions on how to do this.

3. Locate an empty PCI bus expansion slot and remove the slot cover. Keep the screw, you will need it later to secure the card.

4. Touch the bare metal chassis of your computer with the back of your hand to discharge any static that may have built up on you or your clothes.

5. Align the card with the slot you have chosen. Firmly press it into the slot, as shown in the diagram below. You will need to use some pressure to push the card into position, but do not use excessive force.

6. Secure the card using the screw that you removed previously.

7. If you are using the power output for the camera, make sure you have the jumper set to the correct voltage, as explained on page 5.

8. If you have the Captivator PCI/VC camera or an equivalent camera, connect the internal audio cable now, as explained on page 6.

9. Replace the cover of your computer.

10. Switch on your computer and monitor. You are now ready to install the software.

Installing the software

We recommend using the interactive installation guide on the VideoLogic Software Library CD-ROM to install the software. If you want to install the software using Windows Plug and Play, refer to the readme.doc file in the folder \cappci\win95\disk1 on the CD-ROM.

Installing using the interactive installation guide

1. When your computer has restarted, a window is displayed saying that Windows has found new hardware, and requests the drivers. Click Cancel.

2. If a message is displayed saying that the drivers are not installed, click OK.

3. When your desktop is available, insert the VideoLogic CD-ROM into your CD-ROM drive. The interactive installation guide should automatically run. If not, run the file instaler.exe in the root directory of the CD-ROM.

4. Follow the on-screen instructions in the interactive installation guide to install Captivator PCI. You can also install the NewSoft multimedia software now.

   When you have completed the interactive installation guide, Captivator PCI is ready to use.

Multimedia and videoconferencing software

Multimedia software

The NewSoft™ multimedia software consists of three applications: VideoWork, for video editing; MediaScope, an on-screen CD-player; and Image Folio, for processing scanned images and video stills.

Interactive installation

You can install the NewSoft suite by clicking the NewSoft button in the interactive installation guide of the VideoLogic Software Library CD-ROM.

Manual installation

Install each application by running the following install.exe files on the VideoLogic Software Library CD-ROM. Refer to the manual.pdf file for instructions on how to use the software.

- VideoWork   \newsoft\videowrk\disk1\install.exe   \newsoft\videowrk\manual.pdf
- Image Folio   \newsoft\imgfolio\disk1\install.exe   \newsoft\imgfolio\manual.pdf
- MediaScope   \newsoft\mediascp\disk1\install.exe   \newsoft\mediascp\manual.pdf
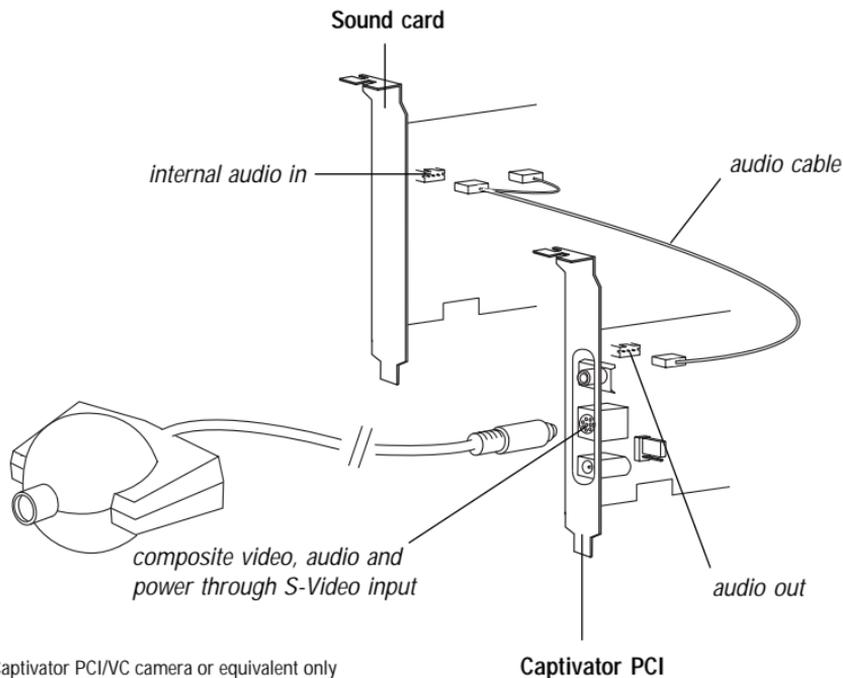
Videoconferencing software

Captivator PCI comes with evaluation copies of market-leading videoconferencing software on the VideoLogic Software Library CD-ROM. Refer to the file \cappci\win95\disk1\readme.doc for further details about these packages, and how to install them.

The Captivator PCI/VC option comes with the professional version of VDOPhone on a separate CD-ROM. To install this, run the file setup.exe in the root directory of the VDOPhone CD-ROM. Refer to the on-line Help system and the VDOPhone pdf file on the VDOPhone CD-ROM for instructions on how to use the software.
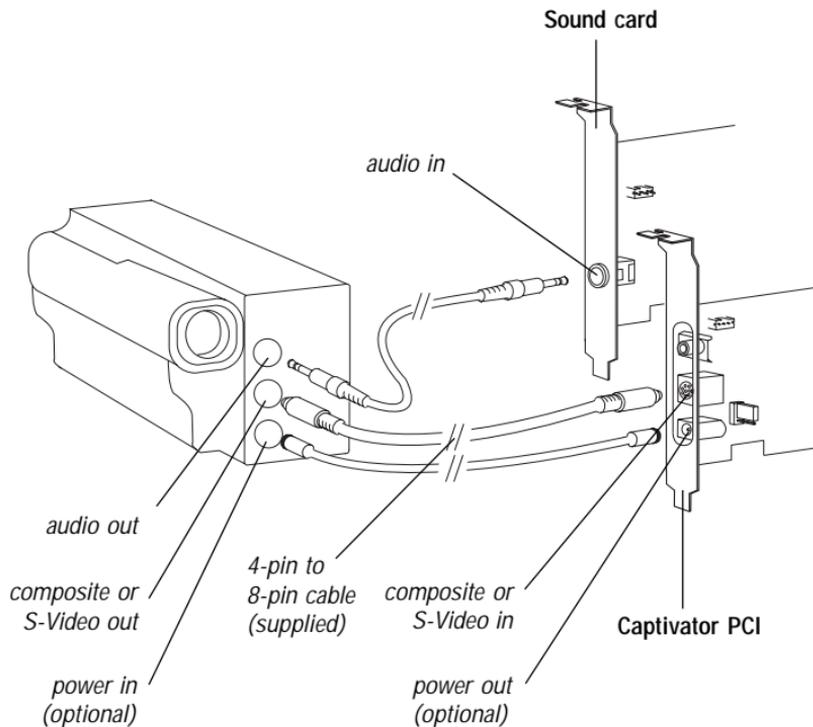
Setting up Captivator PCI

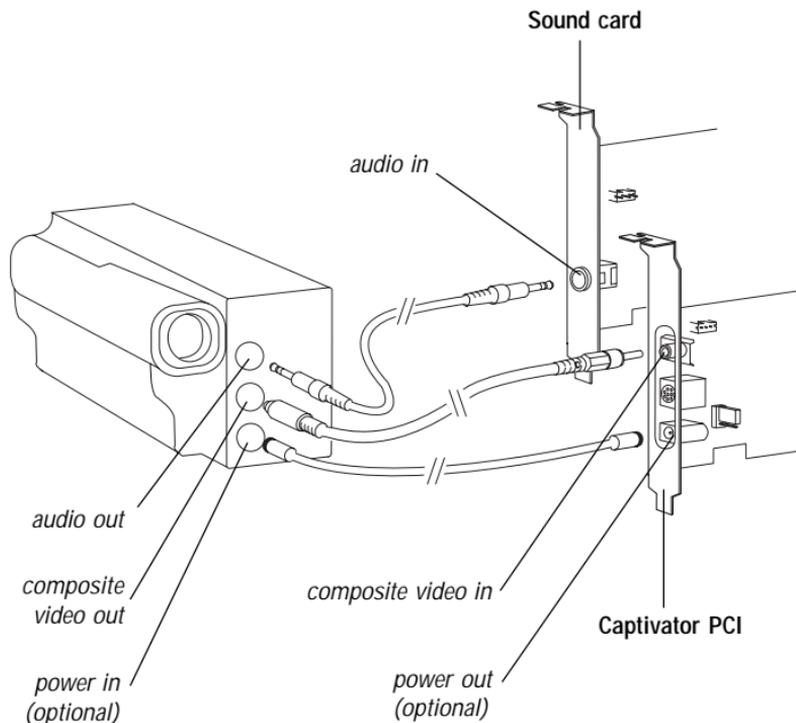**Audio/video/power through composite/S-Video input, audio routed through internal audio connector***

Sound card

internal audio in

audio cable

composite video, audio and power through S-Video input

audio out

Captivator PCI

* Captivator PCI/VC camera or equivalent only

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Video to composite/S-Video input, sound to sound card, optional power from power out

Sound card

audio in

audio out

composite or S-Video out

4-pin to 8-pin cable (supplied)

composite or S-Video in

power in (optional)

power out (optional)

Captivator PCI

Video to composite video input, sound to sound card, optional power from power out

Sound card

audio in

audio out

composite video out

power in (optional)

composite video in

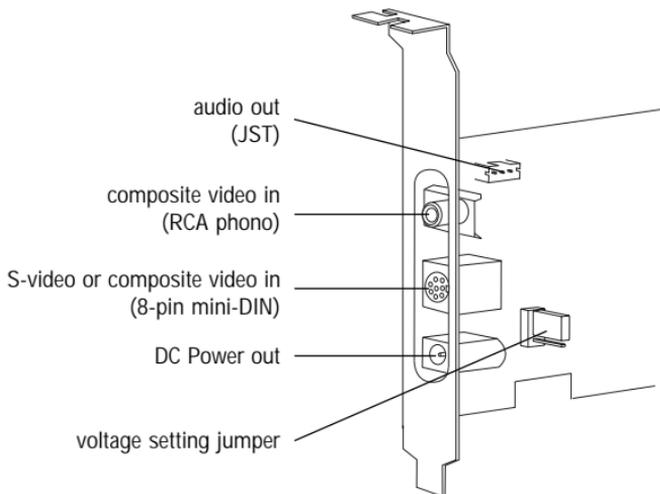*power out (optional)*

Captivator PCI

Technical details

The Philips camera (Captivator PCI/VC only)

The high-quality Philips camera uses the composite/S-Video connector, to send composite video and audio to your computer, and receive power. Follow the instructions in the camera's User Manual to set up the camera.

Socket details

The diagram below shows the sockets:

audio out
(JST)

composite video in
(RCA phono)

S-video or composite video in
(8-pin mini-DIN)

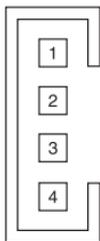DC Power out

voltage setting jumper

Audio socket

If you have the Captivator PCI/VC camera or an equivalent camera, this routes sound from Captivator PCI to your sound card using the cable supplied.

One end of the cable has a 3 pin connector, which fits into Captivator PCI's audio socket. It uses a JST connector, part number JST PHR-3. The pin-outs for this socket are as follows:

Pin	Signal
1	left
2	ground
3	right

The other end has two 4-pin connectors, for connecting to the appropriate socket on your sound card (if you have SonicStorm or Apocalypse 5D Sonic, you can identify which one to use via the diagram on page 6). They both use a JST connector, part number JST PHR-4. The pin-outs for the sockets are as follows:

Pin	SonicStorm signal	Apocalypse 5D Sonic signal
1	left	left
2	ground	ground
3	right	ground
4	ground	right

If you have another sound card, refer to the sound card's documentation or contact your supplier or vendor for information on connecting it to Captivator PCI.
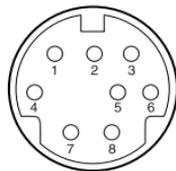
Video sockets

Captivator PCI accepts video in composite and S-Video format in the NTSC, PAL or SECAM video standard. Only one of the inputs can be used at one time.

The RCA phono composite video socket only accepts composite video. The pin-outs for the socket are as follows:

signal (inside)
screen (outside)

The 8-pin mini-DIN S-Video socket accepts S-Video or composite video, and comes with an 8-pin to 4-pin cable, supplied with Captivator PCI. To route audio internally through the 8-pin socket you must have pin 5 connected. The pin-outs for the 8-pin socket are as follows:

Pin	Name	Pin	Name
1	ground	5	audio
2	not connected	6	S-Video C
3	ground	7	power ground
4	S-Video Y	8	+5V supply

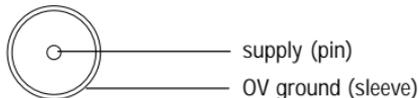The pin-outs for the 4-pin socket on your video source are as follows:

Pin	Name	Pin	Name
1	ground	3	S-Video Y
2	S-Video C	4	ground

DC power output

This output provides +5V or +12V for the camera, dependent on the voltage jumper setting, as described on page 5 of this user guide. The socket has a sleeve of diameter 5.5 mm, with a pin of 2.1 mm. The pin-outs for the socket are as follows:

supply (pin)
OV ground (sleeve)

Caution: Connecting your video camera to a power source of the wrong voltage can cause damage. Captivator's power out connector is factory-set to +5V. Make sure your camera uses this voltage or change it to +12V using the voltage jumper, as shown on page 5.

Voltage setting jumper

This is used to set the voltage through the DC power output, as described on page 5 of this user guide. The pin-outs for the socket are as follows:

Pin	Signal
1	+5V signal
2	common
3	+12V signal

Power and temperature specifications

Captivator PCI operates at a power rating of +1.0 Watts max, and Captivator PCI/VC +4.0 Watts max. Both operate at temperatures between 10ºC (50ºF) and 50ºC (122ºF).

Troubleshooting

This chapter provides solutions to problems that can happen when installing and using Captivator PCI. For more information refer to the readme.doc file in the folder \cappci\win95\disk1 of the VideoLogic Software Library CD-ROM.

Problem: After installing Captivator PCI, my computer does not start.

Solution: The card is not seated properly. Check that the card's connectors are fitted properly into the PCI slot. You may need to move the card into another slot.

Problem: After installing Captivator PCI, my computer does not detect the new hardware.

Solution: Your computer has not recognised the introduction of the card into the PCI slot. Move the card to another PCI slot.

Problem: When displaying live video, I get an error message saying "No suitable DirectDraw provider", and the video defaults to preview mode.

Solution: You are running in a display mode which does not support DirectDraw. Change to a DirectDraw-supported display mode.

If the problem recurs, then your current graphics display driver does not support DirectDraw. Contact your graphics card manufacturer or PC provider for updated graphics drivers.

Problem: Live video shows a blue window.

Solution: You may have the wrong video source selected (S-Video or composite). Check this in VideoWorks by clicking the Capture menu, pointing to Options, and clicking Video Source.

Problem: Live video is in black and white with some corruption.

Solution: You may have the wrong video format selected (PAL or NTSC). Check this in VideoWorks by clicking the Capture menu, pointing to Options, and clicking Video Format.

Technical support

If you have any problems while installing or using Captivator PCI, try running through these steps.

1. Check the troubleshooting information in the readme.doc file in the folder \cappci\win95\disk1 of the VideoLogic Software Library CD-ROM.

2. Visit our technical support web pages at http://www.videologic.com/

3. Download the latest drivers from our ftp site at ftp://ftp.videologic.com/

4. Contact us online using one of the following services:
   - e-mail (USA, Canada & Latin America): support_usa@videologic.com
   - e-mail (German-speaking countries): support_gmbh@videologic.com
   - e-mail (UK & all other countries): support@videologic.com
   - bulletin board (German-speaking countries): +49 (0)6103 371257 (to 28.8, 8-N-1)

5. Contact your original supplier for technical help.

6. Call our customer support group. Try to have details to hand such as your PC's make and model, other cards installed, software you are running, and how to recreate the problem.

   USA, Canada & Latin America: +1 888 618 3579
   Germany: +49 (0)6103 934714
   UK & all other countries: +44 (0)1923 277477

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