

Guide to PCI WinTV Card Features

	TV	TV Audio	FM Stereo Radio	Frame & AVI Capture	Teletext	Video-conferencing	External Inputs	Operating system	Camera included	Remote Control included
Win/TV Primio FM	Yes	Mono	Yes	Yes	Yes	Yes (Camera required)	1 x Composite	Win95/98/Me/2000 NT4.0	No	Yes
Win/TV Nicam Radio	Yes	2-Channel Nicam-Stereo	Yes	Yes	Yes	Yes (Camera required)	1 x S-VHS / Composite	Win95/98/Me/2000 NT4.0	No	Yes
Win/TV CCD Cam	Yes	2-Channel Nicam-Stereo	No	Yes	Yes	Yes	1 x S-VHS / Composite	Win95/98/2000 NT4.0	Yes	Yes
Win/TV Theater	Yes	Dolby Prologic Surround-Sound	Yes	Yes	Yes	Yes (Camera required)	1 x S-VHS / Composite	Win95/98/Me/2000 NT4.0	No	Yes
Win/TV GO	Yes	Mono	No	Yes	Yes	Yes (Camera required)	1 x Composite	Win95/98/Me/2000 NT4.0	No	No
Win/TV	Yes	Mono	No	Yes	Yes	Yes	1 x S-VHS / Composite	Win 95/98/2000	No	No

USB	Yes	Mono	NO	Yes	Yes	(Camera required)	/ Composite	Win 98/Me/2000	NO	NO
WinTV USB FM	Yes	Mono	Yes	Yes	Yes	Yes (Camera required)	1 x S-VHS / Composite	Win 98/Me/2000	No	No
WinTV USB-Live	No	Mono	No	Yes	No	Yes (Camera required)	1 x S-VHS / Composite	Win 98/Me/2000	No	No
WinTV DVB-S	Please refer to the WinTV DVB-S pages for compatibility and specifications.									

- Live TV-in-a-window on VGA monitors from 640x480 to 1280x1024 in up to 16 million colours.
- Built-in cable ready TV tuner: a 125-channel cable TV tuner with automatic channel scan.
- Resize the WinTV window from icon size to full screen (or any size in between!)
- Auxiliary audio/video input connects to video cameras, VCRs and camcorders, too
- Audio output can go to your sound card's Line-In connector or to self-powered speakers.
- Capture professional quality 24-bit images with 4:2:2 digitizing. Image save formats supported: TIFF, BMP, PCX, GIF, TGA plus compressed JPEG in colour or black/white at 8, 16 and 24-bits.
- Video conference over the Internet! The video digitizer on PCI WinTV cards is compatible with your favourite conferencing package such as: Microsoft NetMeeting, CU-SeeMe, Smith Micro's AudioVision, VDOnet, Connectix Videophone, Vocaltec's IPhone, Vivo and lots more. Simply add a video camera and one of these software packages to video conference over the phone lines or the Internet.
- Create high impact presentations with 320x240 AVI clip capture with real time preview. Creates high quality AVI videos in a YUV format.
- Plug-and-Play is used to simplify the installation and set-up of the WinTV cards. There are no switches to set and no internal cables to connect!

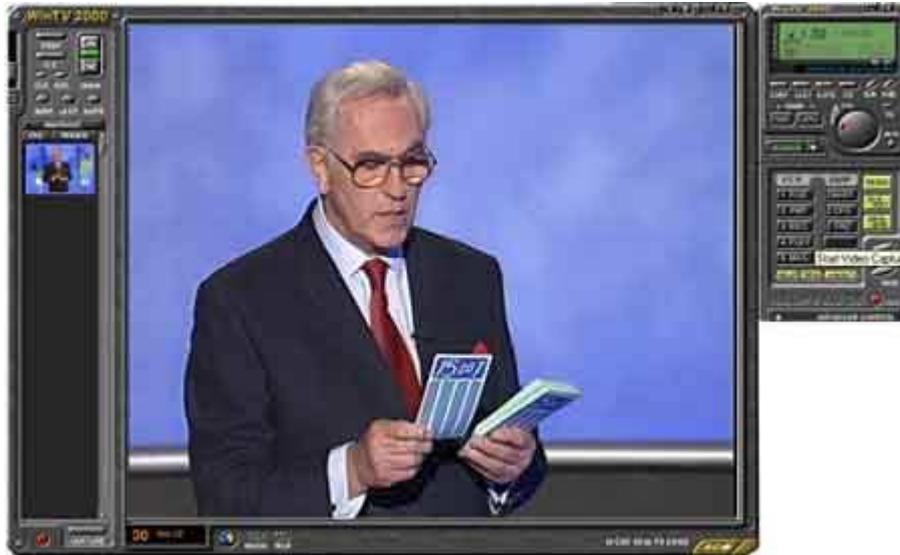
VTPlus Teletext Software



Our VTPlus Professional Teletext software brings real time information to your PC 24 hours a day. Watch multiple teletext pages on your PC screen and save them to disk, with data links to spreadsheets and word processors. VTPlus updates multiple teletext pages and sub-pages in real-time. Save pages to disk, and use these teletext pages in documents or embed them as graphics. The powerful scripting feature allows you to automate the viewing and saving of teletext pages.

VTPlus teletext software can scan and display multiple channels, pages and sub-pages. Teletext scripts automate the retrieving of teletext data. Add teletext data (exchange rates, shares prices, etc.) automatically to your spreadsheets with Dynamic Data Exchange. Save to disk or print individual and multiple pages (and sub pages!) in graphics or text formats. Also supports FastText and Top Text, and the background capturing of all pages for immediate viewing!

WinTV 2000 Application Features



Menus - Remote control, snapshot, source select, channel select, image adjust (contrast, brightness, saturation, hue), options (remove title bar, remove toolbar, always-on-top, show size, aspect-ratio, etc.), save image.

File save - BMP, TIF, GIF, JPEG in 8 and 24-bit b/w or colour. Saved image is current window size up to Maximum image size.

Channel surf - Quickly scans through the active channels on your TV network. Shows 16 channels in your WinTV window at a time.

Print Commands - Page Setup, Printer Setup, Print. Can print colour or black/white.

Copy to Clipboard - supports Microsoft DIB and BMP files. 8-bit colour, 8-bit B/W and 24-bit colour supported.

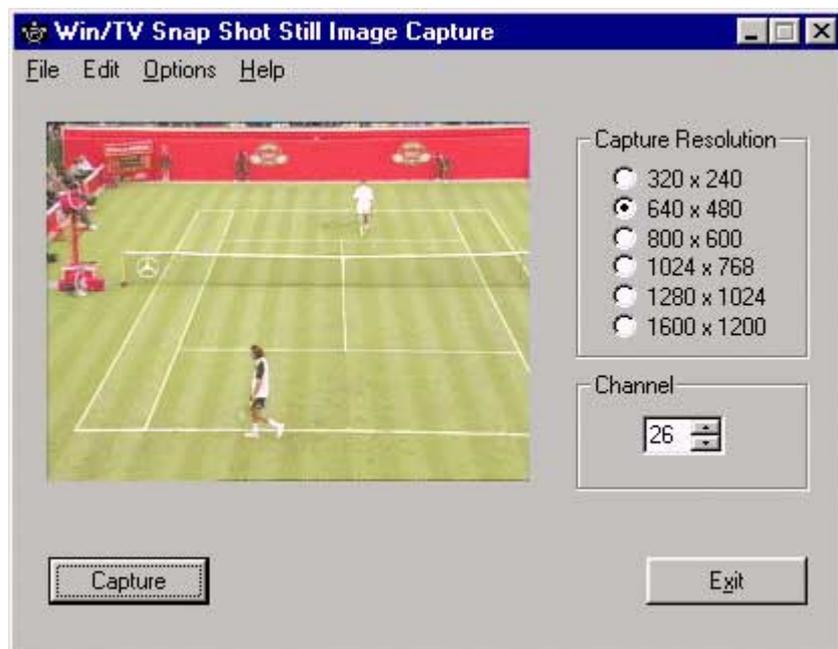
Source Select - Tuner, up-channel, down-channel, Auxiliary Video1, Auxiliary Video2, S-Video.

Audio Adjust - volume up, volume down. WinTV PCI and Radio also allow mono/stereo setting.

Channel Selector - Channel names, automatic channel scan, fine tune, source select, world region.

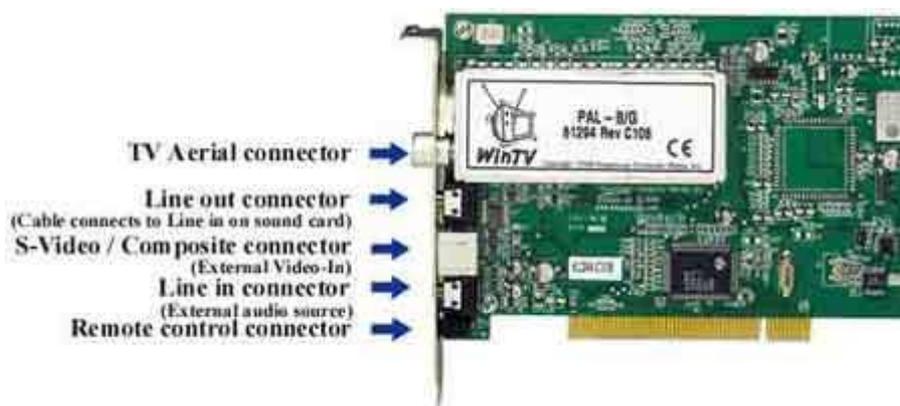
Software requirements - Windows 95, Windows 98.

Snapshot Image Capture Software



The WinTV Snapshot program, bundled with all PCI WinTV boards, allows you to capture high resolution video images from TV or any external video source. Developed by Hauppauge in 1997, WinTV Snapshot supports 1600x1200, 1280x1024, 1024x768, 800x600, 640x480 and 320x240 pixel images in TIF, BMP, GIF and JPEG image formats. Snapshot is great for capturing images for desktop publishing or Web development.

Technical Specifications of PCI WinTV Cards



The PCI WinTV is a digital video in-lay board with TV, image and clip capture plus InterCast data (not currently available in the UK) or Teletext data reception. A bus-master PCI slot is required, plus a VGA card with DirectDraw 3.0 (or later) and Windows 95/98. In addition to displaying live video in a window, individual video images and video clips can be digitized and stored to disk.

Live video is digitized from either the built-in 125-channel cable TV tuner or an external video-input source using high quality 4:2:2 video sampling. The digitized video is sent over the PCI bus in your PC into the memory of your VGA display adapter. This allows the digitized video to move efficiently, and takes a fraction of the available bandwidth of the PCI bus.

Your PC's VGA graphics adapter needs Windows 95 DirectDraw support. VGA cards tested for compatibility with the WinTV cards are:

- S3 Trio64V+, Trio32/64, Vision968 and ViRGE
- S3 ViRGE and ViRGE VX or DX or GX

- S3 TRIO 64 V+
- S3 TRIO 32/64
- S3 Vision 968
- S3 Vision 868
- ATI VT and GT series
- ATI Mach 64 PCI
- ATI Rage 2
- Cirrus Logic 5446
- Matrox Millennium and Mystique
- Tseng Labs ET6000
- Rendition Verite 1000E
- Imagine 128 Series 2
- Alliance Promotion
- Video Logic Grafistar
- Nvidia RIVA (Diamond Viper V330)
- Permedia 2 (Diamond Fire GL 1000)
- Ticket to Ride (#9 Revolution 3D)

General specifications

Video digitized using YUV 4:2:2 color format at 60 fields per second (50 fps in PAL.) Maximum digitized image size: 640x480 for NTSC video sources, 758x576 for PAL.

Memory segment and interrupts

Requires one interrupt and a memory segment, which are automatically assigned by Windows 95 Plug-and-Play setup. Memory segment can be manually adjusted by the user.

VGA Compatibility

All of the PCI WinTV cards work with most PCI VGA cards in 640x480, 800x600, 1024x768, 1280x1024 with vertical refresh rates up to 125Hz. Supports color modes up to 16 million colors. The 256 color mode is not recommended, since in this mode the video image is palettized, causing color distortion.

Does not require connections to the VGA card, either internal or external. Requires that the VGA card have an updated DirectDraw driver.

Video Clip Capture

Save continuous video at 320x240 at up to 30 frames per second. (Actual save capability is determined by the speed of the PC and the hard disk drive.) Creates Microsoft Video for Windows compatible AVI files in an uncompressed YUV format.

For use with video conferencing applications such as CU-SeeMe, VDOnet, VocalTec's IPhone, Connectix VideoPhone, Smith Micro's AudioVision, Vivo, etc., the frame rate is set by the video conferencing application and the video format used for digitizing. See chart below for digitizing formats supported and maximum frame rates.

Video Digitizing Formats and Maximum Frame Rates			
Color format	Capture resolution	Frames per second	Notes
RGB32	160x120	15	...
RGB24	160x120	15	...
RGB16 (565)	320x240	15	...
RGB15 (555)	320x240	15	...
Y8	320x240	25	Greyscale
RGB 8-bit dithered	320x240	25	...
YUY2 4:2:2	320x240	25	UYVY by byte swapping
BtYUV 4:1:1	320x240	25	3 words pack 8 pixels
YCrCb 4:2:2	320x240	25	...
YUV12	320x240	25	Vertical subsampled 4:2:2
YCrCb 4:1:1	320x240	15	...
YUV9	320x240	25	Vertical subsampled 4:1:1

Audio output

Unamplified "line-out." Output is through 1/8" female stereo jack. Line-out is compatible with "line-in" on most 8 and 16-bit sound cards and stereo systems or amplified speakers.
