

Pinnacle Video Transfer



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Overview

Welcome to Pinnacle Video Transfer

Dear customer,

We would like to thank you for choosing a Pinnacle product. You have made an excellent decision.

You now have all the options you need for recording your favorite movies or TV shows from an analog video source directly onto your mobile USB mass storage device so that you can watch them later.

You don't even need a computer to do this. Pinnacle Video Transfer is an external device that you connect to your video source and a mobile storage device. You can start recording right away without having to worry about configuring anything.

The recordings are made using the high-quality video compression format H.264. This format is also very well suited to further processing on a PC with VideoSpin, the new Pinnacle video editing software. You can download the software free from <http://www.videospin.com> at any time and install it on your PC. Then you only need to copy the video which you have recorded on the mobile storage device (e.g. an external USB hard disk or a USB flash memory stick) on to your PC and you can start video editing.

The following devices can be used as (analog) video sources:

- Video recorder
- DVD player
- Video camera
- Set-top box
- Television (when equipped with a fully connected SCART connector)
- Game consoles
- Any device that provides an analog video signal

The following USB devices are suitable for direct recording using Pinnacle Video Transfer:

- Apple® iPod® Video, firmware version 1.21 or later
- iPod® Classic, iPod® Nano (3rd generation), firmware version 1.03 or later
- Sony® Playstation® Portable (PSP™), firmware version 2.81 or later, Sony® Playstation® Portable Slim
- USB Flash memory sticks
- External USB hard drives

Files recorded on a USB Flash memory stick or an external USB hard disk with the aid of Pinnacle Video Transfer can be transferred to the following devices via iTunes®:

- Apple® iPod® touch
- Apple® iPhone™

Don't forget to register your product at <http://www.pinnaclesys.com/register>. As a small "thank you", you will be able to download a software program for making backups to your computer of recordings made using Pinnacle Video Transfer on the iPod®.

We hope you have lots of fun with our product!
Your Pinnacle Team

Connections and Operating Controls on Pinnacle Video Transfer

Connections – Front Side

- Power adapter connector



When the external power supply unit contained in the package is connected to Pinnacle Video Transfer and turned on, any connected USB device, for example, your iPod®, is also powered or charged. For this to work properly, the connected USB device must also support this function. Note that you may require special device-specific USB cables. These cables are not included in the box contents.

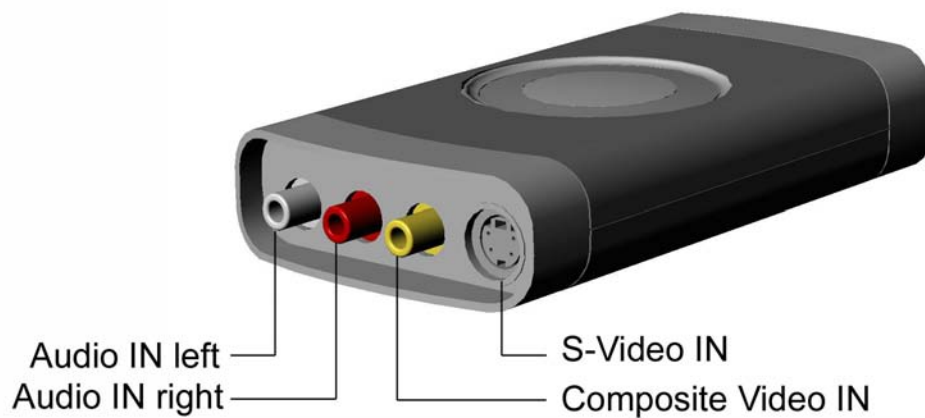
- USB-A 2.0 port
For connecting USB devices
- USB-B 2.0 port
Reserved for future use



Connections – Rear Side

The video source connections are located on the rear side of Pinnacle Video Transfer.

- Audio input left
- Audio input right
- Composite video input
- S-video input



Operating Buttons

- **ON / OFF / MODE**
- **REC**
For starting and stopping a recording



Step by Step

Connect Power Supply and Turn Pinnacle Video Transfer On or Off

Connect Pinnacle Video Transfer to a power source using the power unit included in the box.

To turn Pinnacle Video Transfer on, briefly press the **MODE** button. All the blue LEDs on Pinnacle Video Transfer should then briefly light up.

To turn Pinnacle Video Transfer off, press the **MODE** button for longer than two seconds.

Connecting a Video Source



To connect the video source to Pinnacle Video Transfer, you need to use the cable included in the box (composite video cable and stereo-audio cable (RCA)).

Connect the video and audio outputs on the video source to the corresponding video and audio inputs on Pinnacle Video Transfer.

The signal recognition process begins and the respective input LED constantly glows red. The process is complete as soon as the respective input LED has changed to blue.



Do not disconnect the affected inputs from the Pinnacle Video Transfer device whilst the signal recognition process is running.

If there is a video signal coming from both video inputs (composite and S-video) at the same time, Pinnacle Video Transfer automatically uses the input that was first detected as a valid video signal as the source.

Connecting the USB Device

Connect the storage device you are using to the USB-A 2.0 port on Pinnacle Video Transfer.

The device recognition process begins and the USB port LED constantly glows red. If this process takes longer, a running light formed by the three quality LEDs starts up in addition to the constantly glowing red light. The device recognition process is finished as soon as the running light stops and the USB port LED has changed to blue.



Do not disconnect the USB device from the Pinnacle Video Transfer device whilst the device recognition process is running.

Special Features of the Various USB Devices

In order to ensure your device is able to make recordings using Pinnacle Video Transfer, note the following features associated with the various devices:

Apple® iPod®

- The device hard drive must be formatted as FAT32.
- Check to make sure that the option **Manually manage music and videos** is activated in the iTunes® program. Otherwise, any videos you have recorded on your iPod® might be deleted when you connect the iPod® to the computer.

Sony® Playstation® Portable (PSP™)

- The device needs to be in USB mode.
To do this, select **Settings** to the left, vertically scroll to the **USB connection** option and then confirm with **X**.

USB Flash memory sticks

- Suitable formats are FAT16 and FAT32.

External USB hard drives

- Suitable formats are FAT16 and FAT32.



Devices using HUBs are not supported by Pinnacle Video Transfer.

Setting the Recording Quality

Before you start recording, select the recording quality you prefer. Repeatedly press the **MODE** for less than one second to switch between the 3 possible qualities **Good**, **Better** and **Best**.

The best recording quality is achieved if the input signal is clear and without noise and hissing, and if the Pinnacle Video Transfer S-Video input is used.

The currently selected quality is indicated by the LEDs beneath the **MODE** button:



Good

One LED is constantly lit in blue.



Better

Two LEDs are constantly lit in blue.



Best

All three LEDs are constantly lit in blue.

Depending on the USB device, the following describes these 3 qualities in detail:

	iPod®	PSP™	Other devices
Good*	Video 320x240 512 kbps video 96 kbps stereo audio 48 KHz	Video 320x240 512 kbps video 64 kbps stereo audio 48 KHz	Video 320x240 768 kbps video 64 kbps stereo audio 48 KHz
Better*	Video 320x240 768 kbps video 128 kbps stereo audio 48 KHz	Video 320x240 768 kbps video 96 kbps stereo audio 48 KHz	Video 640x480 1.2 Mbps video 128 kbps stereo audio 48 KHz
Best*	Video 640x480 1.5 Mbps video 128 kbps stereo audio 48 KHz	Video 320x240 1 Mbps video 128 kbps stereo audio 48 KHz	Video 720x576 (PAL, SECAM) / 480 (NTSC) 1.5 Mbps video 192 kbps stereo audio 48 KHz

* In view of the constant technical further development and improvement of this product we reserve the right to make changes.

The maximum recording duration varies depending on the selected recording quality and the recording capacity of the connected USB device.

We have defined the following reference values for the maximum recording duration especially for you:

	iPod® Video, 30 GB	PSP™, 2 GB	Flash Stick, 4 GB	USB hard disk, 250 GB
Good*	85 hours	7.5 hours	11 hours	640 hours
Better*	61 hours	5.5 hours	5.5 hours	320 hours
Best*	38 hours	2.5 hours	3 hours	187 hours

* The better the recording quality, the greater the data rate required of the USB device.

Should you discover defects in the recording, for example a juddery picture, crackling noises in the audio signal or audio/video synchronization problems, the following measures can help:

- Select the next lower recording quality on the Pinnacle Video transfer device or
- Use a better quality USB device for the recording, for example an external USB hard disk.



The **MODE** button is not active during a running recording; this means that Pinnacle Video Transfer cannot be turned off and the recording quality currently set cannot be changed.

Practical tips for the selection of the recording quality

Best quality

Recording on USB sticks and USB hard disks in **Best** quality provides interlace pictures, i.e. both video signal half-pictures are stored unchanged. This recording format gives the best possible quality for subsequent video editing (e.g. with Pinnacle VideoSpin, see <http://www.videospin.com>) and possible DVD creation.

Comb-shaped effects at the edge of movement can be seen when such recordings are played back on the PC with QuickTime Player™ or Windows Media Player. If you wish to eliminate these effects during viewing we recommend a player with de-interlacing functionality (for example the VLC Player, see <http://www.videolan.org>).

Good or Better quality

If you record files on a USB stick or a USB hard disk in order to

- Subsequently make further use of them on an iPod® touch or an iPhone™

or

- To view them on a PC or to place them in a video portal via the PC,

we recommend that you select **Good** or **Better** recording quality from the start.

Meaning of the LED Displays

The following information is indicated by the LEDs at the video and audio inputs and at the USB port on Pinnacle Video Transfer:

LED off

The corresponding input is not selected, no device is connected or a connected device has not been detected.

LED constantly lit blue

The corresponding input is selected and the video/audio signal has been detected.

The connected USB device has been detected. You can disconnect the device from Pinnacle Video Transfer at any time.

LED constantly lit red

A recording is in progress or the device is being accessed.

Please do not disconnect the corresponding inputs and USB devices from Pinnacle Video Transfer.

LED running light

A device or signal recognition process is running. Please do not disconnect the affected inputs and USB devices from the Pinnacle Video Transfer device.

LED blinking red

The start of the recording was not successful or the recording was canceled due to an error, for example:

- The video signal was interrupted for more than 10 seconds during recording.
- When the recording was started, there was no USB device connected.
- When the recording was started, there was no USB device detected.
- The USB device was disconnected from Pinnacle Video Transfer during recording.
- The USB storage device memory is full.
- File numbering has already reached maximum or the USB device already contains a file with the same name.

Recording

Before you start recording, make sure that both the video source and the USB device are properly connected and that you have set the recording quality you want.

Depending on how long you press the **REC** button, the recording can be started in one of two different modes.

Normal Recording Mode

When you press the **REC** button for less than two seconds, normal recording mode is started.

Note that recording can begin only if:

- The connected USB device has been detected by Pinnacle Video Transfer; in other words, the LED at the USB port must be constantly lit blue.
- A valid video signal is detected; in other words, the LED at the video input must be constantly lit blue.
- The memory on the connected USB device is not full.
- The USB device does not contain a recorded file with the same name.

Recording is automatically suspended, if:

- The video signal is interrupted for more than 10 seconds.
- The memory of the connected USB device is full.

Forced Recording Mode

If you press the **REC** button longer than two seconds, forced recording mode is started.

As opposed to normal recording mode:

- Any file with the same name already on the USB device will be overwritten by the recording procedure.

Recording is automatically suspended, if:

- The memory of the connected USB device is full.

Maximum File Size for Recordings

The maximum size of a recorded file is determined by the storage format and the limits set depending on the device. When using the storage format FAT32, the maximum file size is, for instance, 4 GB. The recording is automatically suspended when the maximum file size is reached, and is then resumed in a new file. The new file is automatically numbered in ascending sequence. Suspending the recording takes a few seconds; this means that the video images sent during this time are lost. If no new recorded file can be created, for example, because the USB device memory is full, the recording is not resumed.

Stop the Recording

To stop the recording, briefly press the **REC** button.

Depending on the length of the recording and the USB device connected, it can take a few seconds before the USB device can be removed. This waiting time is indicated by a running light formed by the three quality LEDs. The USB device can be removed as soon as the running light stops and the LED on the USB port has changed to blue.

The minimum recording duration is 30 seconds. If a recording is to be stopped after less than 30 seconds it runs on until these 30 seconds have elapsed.

Where are the Recordings Saved?

Recording Directories on PSP™, USB Flash Memory Sticks and External USB Hard Drives

The recordings are stored in the **VIDEO** directory located in the main directory. If this directory does not yet exist on your USB device, it will be automatically created when recording starts.

The name of the file is "**vidxxxxx.mp4**", where "xxxxxx" stands for a 5-digit number.

If the device does not yet contain any recordings, the first file name will be "**vid00001.mp4**". For each successfully started recording, the file name number is automatically increased by 1.

If one or more files with the file name "**vidxxxxx.mp4**" already exist on the connected USB device when a new recording is started, the new recording is labeled with the highest number of any previous recording plus 1.

If a file named "**vid99999.mp4**" already exists on the USB device, a new recording cannot be started in normal mode until this file is deleted. A recording can be started in forced mode without having to delete this file beforehand. To do this, press the **REC** button for more than two seconds. The file already on the device is overwritten.

On the PSP™ interface, the recorded videos are shown in the **Video** area.

Recording Directory on the Apple® iPod®

The recordings are stored in the **iPod_Control\Music\F99** directory located in the main directory. If this directory does not yet exist on your iPod®, it will be automatically created when recording starts.

The name of the file is "**xxxx.mp4**", where "xxxx" stands for a 4-digit number.

If your iPod® does not yet contain any recordings, the first file name will be "**0001.mp4**". For each successfully started recording, the file name number is automatically increased by 1.

If one or more files with the file name "**xxxx.mp4**" already exist on the connected iPod® when a new recording is started, the new recording is labeled with the highest number of any previous recording plus 1.

If a file named "**9999.mp4**" already exists on the iPod®, a new recording cannot be started in normal mode until this file is deleted. A recording can be started in forced mode without having to delete this file beforehand. To do this, press the **REC** button for more than two seconds. The file already on the device is now overwritten.

In the iPod® playlist, files recorded using Pinnacle Video Transfer are displayed formatted as "**Pinnacle video xxxx**", where "xxxx" stands for the consecutive 4-digit number of the individual file.

Tips and Tricks

Firmware Update

Pinnacle Video Transfer uses firmware that contains important programs for the entire system.

In order to take advantage of the latest product improvements, you should regularly check the Pinnacle Web site <http://www.pinnaclesys.com/support> for the latest firmware updates.

To update your firmware, please do the following:

- Download the corresponding file from the Pinnacle Web site <http://www.pinnaclesys.com/support>, unpack it and then follow the instructions in the Readme file that came with the download.



Do not turn off Pinnacle Video Transfer while updating the firmware and do not remove the power cable.

Resetting Pinnacle Video Transfer

If unexpected malfunctions occur (for example, the desired functions are no longer executed, the LED display is defective, the device no longer reacts), it may be necessary to reset Pinnacle Video Transfer.

To do this, turn on the device, remove the power cable and then reconnect the power cable.

All the device settings are reset to the factory settings.