

PCTV 310i Hardware

PCTV 310i Hardware

GB Mai 2005

© Pinnacle Systems GmbH 2005

All rights reserved.

No part of this manual may be reproduced or transferred to other media without explicit written permission from Pinnacle Systems GmbH, Braunschweig, Germany.

All brand or product names are trademarks or registered trademarks of their respective holders.

This manual is printed on chlorine-free, bleached paper using solvent-free ink. Pinnacle Systems GmbH has written this manual to the best of its knowledge, but does not guarantee that the programs/systems will fulfil the users' intended applications.

No warranty is made as to the specifications of features.

Pinnacle Systems GmbH retains the right to make alterations to the content of the manual without obligation to inform third parties.

All quotes, sales, supply and manufacturing contracts from Pinnacle Systems GmbH, including consulting, installation and other contractual services are subject exclusively to the General Sales and Delivery Terms of Pinnacle Systems GmbH.

Table of Contents

Introduction.....	1
Package Contents.....	2
System Requirements	3
Computer Hardware	3
Computer Software.....	3
For Your Own Safety.....	4
Hardware Installation.....	5
Preparing Installation	5
Using PCTV 310i Hardware	6
After Installation.....	6
Connecting the Equipment.....	7
Tips on Positioning the Antenna.....	8
Technical Data	9
Bus System.....	9
Video Decoder / Analog Demodulator.....	9
TV Tuner	9
DVB-T Demodulator.....	9
TV Formats.....	9
Antenna Input Terminals.....	9
Video Input Terminals.....	10
Remote Input Terminal	10
Audio Output Terminal	10

Notes

Introduction

Congratulations on becoming the proud owner of a PCTV 310i!

The PCTV 310i combines four devices in one PCI card: It lets you receive not only DVB-T but also conventional analog TV (via cable or antenna) and FM radio – and everything in stereo. Plus, you can use the analog video input, for example, to digitize your old video cassettes.

DVB-T (Digital Video Broadcasting Terrestrial), digital terrestrial TV, offers a wide selection of channels with excellent image and sound quality, without the need of a satellite dish or a cable connection.

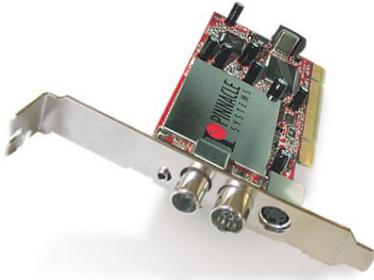
Additional services planned for the future include digital radio, interactive TV, and IP data reception. Some of these services are already available in selected areas. More information about DVB-T can be found on the Internet, for example, at www.dvb.org.

Together with the full version of the Pinnacle MediaCenter software, you can use your PCTV 310i to not only enjoy live TV and live radio but also timeshifted television or radio, as well as high quality recordings of shows on your hard drive and writable DVDs.

You also get access to the free information services, teletext and the electronic program guide (EPG). These services let you simply and easily access the information you want at any time, as well as schedule the shows you want to record.

And now have fun with your PCTV 310i!

Package Contents



PCTV 310i card
(illustration is a sample)



Video adapter



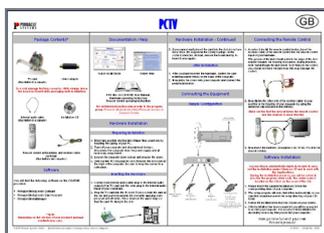
Internal audio cable
(illustration is a sample)



Installation CD



Remote control with batteries and receiver cable
(illustrations are samples)



Quick Install Guide



PDF files on CD-ROM: User Manual,
hardware operating instructions,
remote control operating instructions



Depending on the version of your product, package contents may vary.

System Requirements

Your system must satisfy the following requirements in order for your PCTV 310i to function smoothly:

Computer Hardware

Processor

Minimum: Pentium IV with 1.8 GHz (for DVB-T reception: Pentium III with 1.0 GHz) or equivalent AMD Athlon XP

Recommended: Pentium IV 2.4 GHz or equivalent AMD Athlon 64

Working memory

Minimum: 128 MB RAM

Recommended: 256 MB RAM

Hard disk

Minimum: IDE hard disk with master mode drivers and a minimum of 5 GB free disk space

Recommended: U-DMA hard disk with 20 GB free disk space

Graphics card

Minimum: DirectX 8-compatible graphics card

Recommended: DirectX 9-compatible graphics card

Sound card

Minimum: DirectX 9-compatible sound card

CD-ROM drive (minimum) or CD-/DVD burner (recommended)

Computer Software

Windows XP (Home Edition, Professional Edition or Media Center Edition 2005) with the latest Service Pack

For Your Own Safety



If you purchased your PCTV 310i together with a PC and it is already installed, skip the next few chapters and continue with the chapter "Connecting the Equipment".

In the interest of your own safety and the flawless functioning of your new PCTV 310i and computer system, note the following:

- Computer components are sensitive to static charge. Divert any electrostatic charge from your body before touching the components with your hands or any tools.
- Before opening the computer, make sure that the power plug is disconnected from the wall outlet.

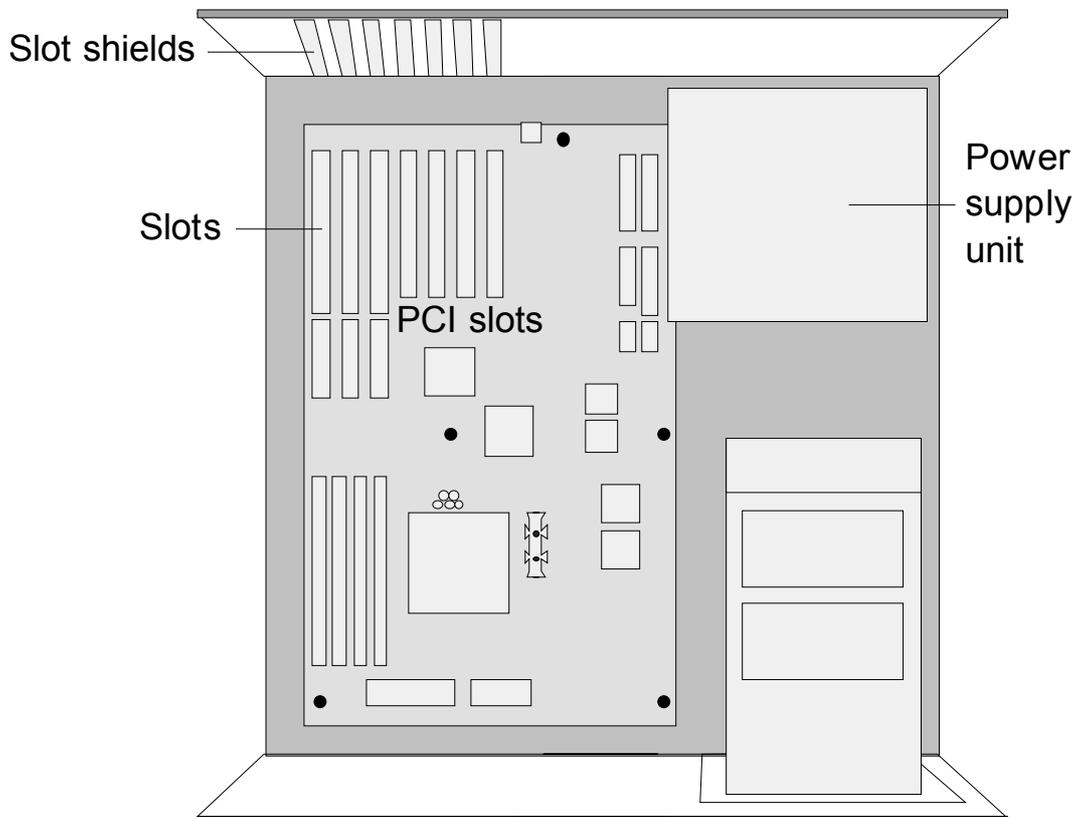
Hardware Installation

Preparing Installation



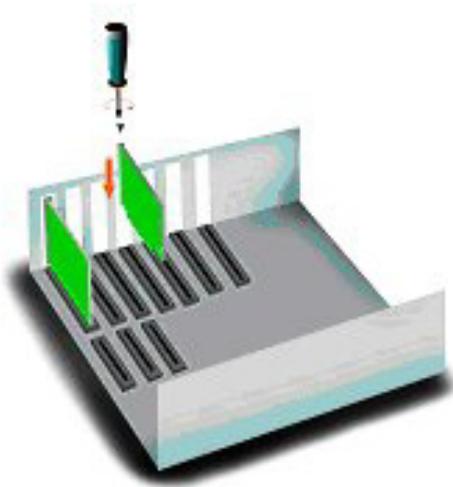
The only tool you need for the installation is a screwdriver.

- Divert any possible electrostatic charge from your body by touching the casing of your PC.
- Turn off your computer and all peripheral devices. Disconnect the computer from the power supply and all necessary components.
- Loosen the computer cover screws and remove the cover.
- Select a free PCI (busmaster) slot. Remove the slot cover at the back of the computer. Make sure to keep the screws in a safe place.



Using PCTV 310i Hardware

- Connect one internal audio cable plug to the internal audio output terminal of the PCTV310i card and the other plug to the internal audio input terminal of your sound card.
- Insert the card into the PCI slot. To do so, hold the card at the top and push it down into the slot while applying even pressure at both ends. Press down on the upper edge so that the card fits firmly in the slot.

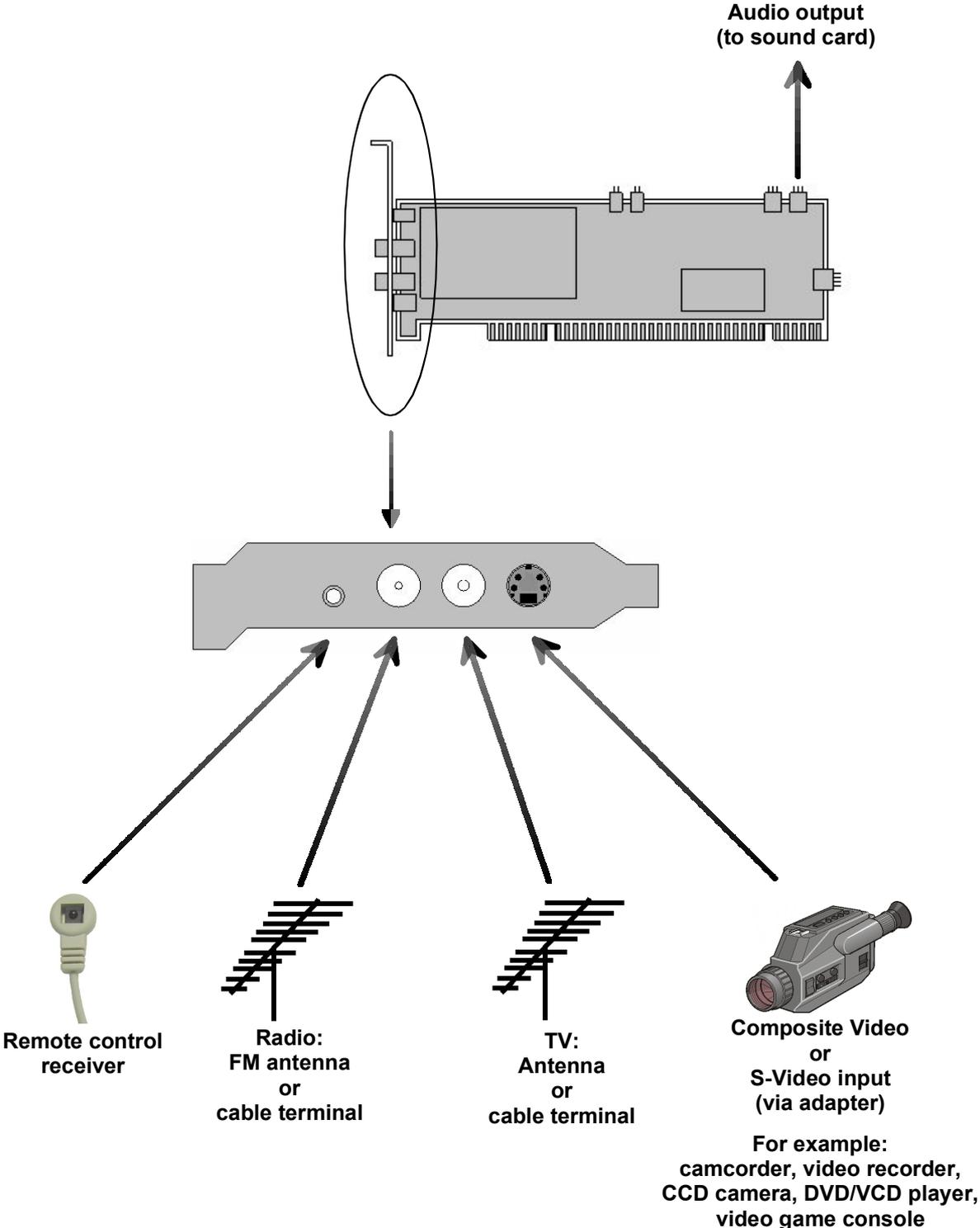


- If you cannot easily insert the card into the slot, do not use force since this may bend the contact springs on the socket connector. Instead, remove the card and try to insert it again.

After Installation

- After you have inserted the hardware, tighten the card retaining bracket firmly on the back of the computer.
- Now place the cover onto your computer and connect the peripheral devices.

Connecting the Equipment



Tips on Positioning the Antenna

Take note of the following in order to achieve the best possible digital television reception:

- Wherever possible, place the antenna in the direction of the nearest transmitter.
- If you use an indoor antenna, position it near a window, if possible.
- Try to position any indoor antenna as high as possible (for example, on top of a cupboard).
- An indoor antenna should not be located near a computer monitor, television or the like.
- Make certain to have the proper polarization if you use an active flat antenna (if you are not certain, you can find out whether the antenna should have a transverse or upright position by trial and error).
- For active antennas without a separate power supply, activate the antenna power supply in the "Settings" menu of the Pinnacle Media Center application.
- Only double-shielded antenna cable should be used.

Technical Data

Bus System

- PCI Rev. 2.3

Video Decoder / Analog Demodulator

- Philips SAA7131

TV Tuner

- Philips TDA 8275A
The frequency range is 45.75 to 863.25 MHz.

DVB-T Demodulator

- Philips TDA 10046A
 - 16.64 QAM, QPSK
 - 6/7/8 MHz bandwidth
 - UHF, VHF

TV Formats

- DVB-T
- PAL / SECAM / NTSC

Antenna Input Terminals

- 75 Ohm IEC radio (optional F-connector adapter)
- 75 Ohm IEC TV (optional F-connector adapter)

Video Input Terminals

- Mini-DIN 4-pole for S-Video or Composite Video (Cinch via adapter)

Remote Input Terminal

- Remote input terminal for connecting the optional receiver cable included in the package

Audio Output Terminal

- Internal audio output terminal (to the sound card) via a 4-pole connector:
 1. Left
 2. Ground
 3. Ground
 4. Right



Konformitätserklärung nach ISO/IEC Guide 22

*Declaration of conformity in accordance with
ISO/IEC Guide 22*

Nr. / No 1.00

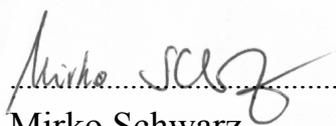
Anbieter / *Supplier* : **Pinnacle Systems GmbH**
Anschrift / *Address* : Frankfurter Strasse 3c
38122 Braunschweig, Germany
Produkt / *Product* : **PCTV 310i**

Das oben beschriebene Produkt ist konform mit: / *The product described above
is in conformity with:*

Dokument-Nr. <i>Document No.</i>	Titel <i>Title</i>
EN 55013 : 2002	Funktöreeigenschaften von Rundfunkempfängern und verwandten Geräten der Unterhaltungselektronik <i>Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment</i>
EN 55020 : 2003	Störfestigkeit von Rundfunkempfängern und verwandten Geräten der Unterhaltungselektronik <i>Electromagnetic immunity of broadcast receivers and associated equipment</i>
EN 61000-4-2 : 2001	Störfestigkeit gegen Entladung statischer Elektrizität <i>Electrostatic discharge immunity test</i>
EN 61000-4-3 : 2001	Störfestigkeit gegen hochfrequente elektromagnetische Felder <i>Radiated, radio-frequency, electromagnetic field immunity test</i>
EN 61000-4-4 : 2002	Störfestigkeit gegen schnelle transiente elektrische Störgrößen/BURST <i>Electrical fast transient/burst immunity test</i>
EN 61000-3-2 : 2001	Grenzwerte für Oberschwingungsströme <i>Limitations for harmonic currents</i>
EN 61000-3-3 : 2002	Grenzwerte für Spannungsschwankungen und Flicker <i>Limitations of voltage fluctuations and flicker</i>
EN 60950 : 2001	Sicherheit von Einrichtungen der Informationstechnik <i>Safety of information technology equipment</i>

Dieser Erklärung liegt zugrunde: Prüfbericht(e) des EMV-Prüflabors
This certification is based on: Test report(s) generated by EMI-test laboratory

Braunschweig, 26. April 2005 / *April 26th, 2005*


.....
Mirko Schwarz

Hardwareentwicklung
Hardware Engineering


.....
Oliver Hellmold

Finanzdirektor / *Director Finance*
(Rechtsverbindliche Unterschrift / *Legally Binding*)

Notes