

PCTV Dual DVB-T Pro PCI Hardware



PCTV Dual DVB-T Pro PCI Hardware

GB February 2006

© Pinnacle Systems GmbH 2006

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.

Pinnacle Systems GmbH has written this manual to the best of its knowledge, but does not guarantee that the programs/systems will fulfill the users' intended applications.

The feature descriptions are not to be understood as a warranty.

Pinnacle Systems GmbH retains the right to make alterations to the contents of this 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.



Disposal and Recycling

Do not dispose of electric components in the garbage. Either return defective or unwanted devices to the retailer or take them to an appropriate recycling station for environmentally friendly disposal!

Table of Contents

Introduction	1
Box Contents	2
System Requirements	3
Operating System.....	3
Processor	3
Working Memory.....	3
Hard Disk	3
Graphics Card	3
Sound Card.....	3
Expansion Slot	3
CD-ROM / DVD-ROM Drive or Recorder	3
For Your Own Safety	4
Hardware Installation	5
Preparing for Installation	5
PCTV Dual DVB-T Pro PCI Hardware Installation	6
After Installation	6
Connecting the Equipment	7
Tips on Positioning the Antenna	8
Technical Data.....	9
Bus System.....	9
TV Tuner.....	9
DVB-T Demodulator	9
TV Format.....	9
Remote Input Terminal	9

Introduction

Congratulations on your purchase of PCTV Dual DVB-T Pro PCI!

The PCTV Dual DVB-T Pro PCI gives you two DVB-T tuners on a single PCI card – and you only need one antenna for it. Depending on the software you are using, this means you can watch or record two channels simultaneously.

DVB-T (Digital Video Broadcasting Terrestrial), digital terrestrial TV, offers a wide selection of channels with excellent image and sound quality, without requiring a satellite dish or 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 or www.freeview.co.uk. For Australia, go to www.dba.org.au.

And now have fun with your PCTV Dual DVB-T Pro PCI!

Box Contents



PCTV Dual DVB-T Pro PCI
(image is a sample)



Installation CD



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



Quick Start 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 fulfill the following requirements if you want to guarantee proper PCTV Sat Pro PCI function:

Operating System

Windows XP (Home Edition, Professional Edition or Media Center Edition 2005) with the latest service pack

Processor

Minimum: Pentium IV with 2 GHz or equivalent AMD Athlon XP

Recommended: Pentium IV with 2.8 GHz or equivalent AMD Athlon 64

Working Memory

Minimum: 256 MB RAM

Recommended: 512 MB RAM

Hard Disk

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

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

Graphics Card

Minimum: DirectX9 compatible graphics card

Sound Card

Minimum: DirectX9 compatible sound card

Expansion Slot

PCI 2.3 compatible expansion slot

CD-ROM / DVD-ROM Drive or Recorder

Minimum: CD-ROM or DVD-ROM drive

Recommended: CD or DVD recorder

For Your Own Safety



If you purchased your PCTV Dual DVB-T Pro PCI together with a PC and it is already installed, skip the next few sections and continue with the section "Connecting the Equipment".

In the interest of your own safety and the flawless functioning of your new PCTV Dual DVB-T Pro PCI and computer system, note the following before installing any hardware:

- 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 for Installation

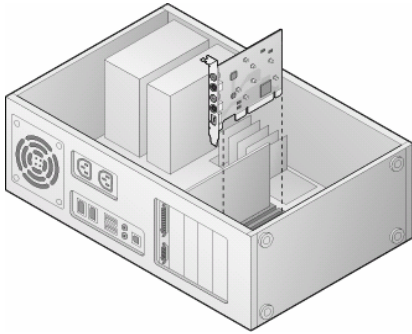


You will need a screwdriver to install your hardware.

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

PCTV Dual DVB-T Pro PCI Hardware Installation

- Insert the card into the available PCI slot. Hold it firmly on the upper edge and ease it down into the slot by applying even pressure at both ends. Press down on the upper edge until the card fits securely in the slot.

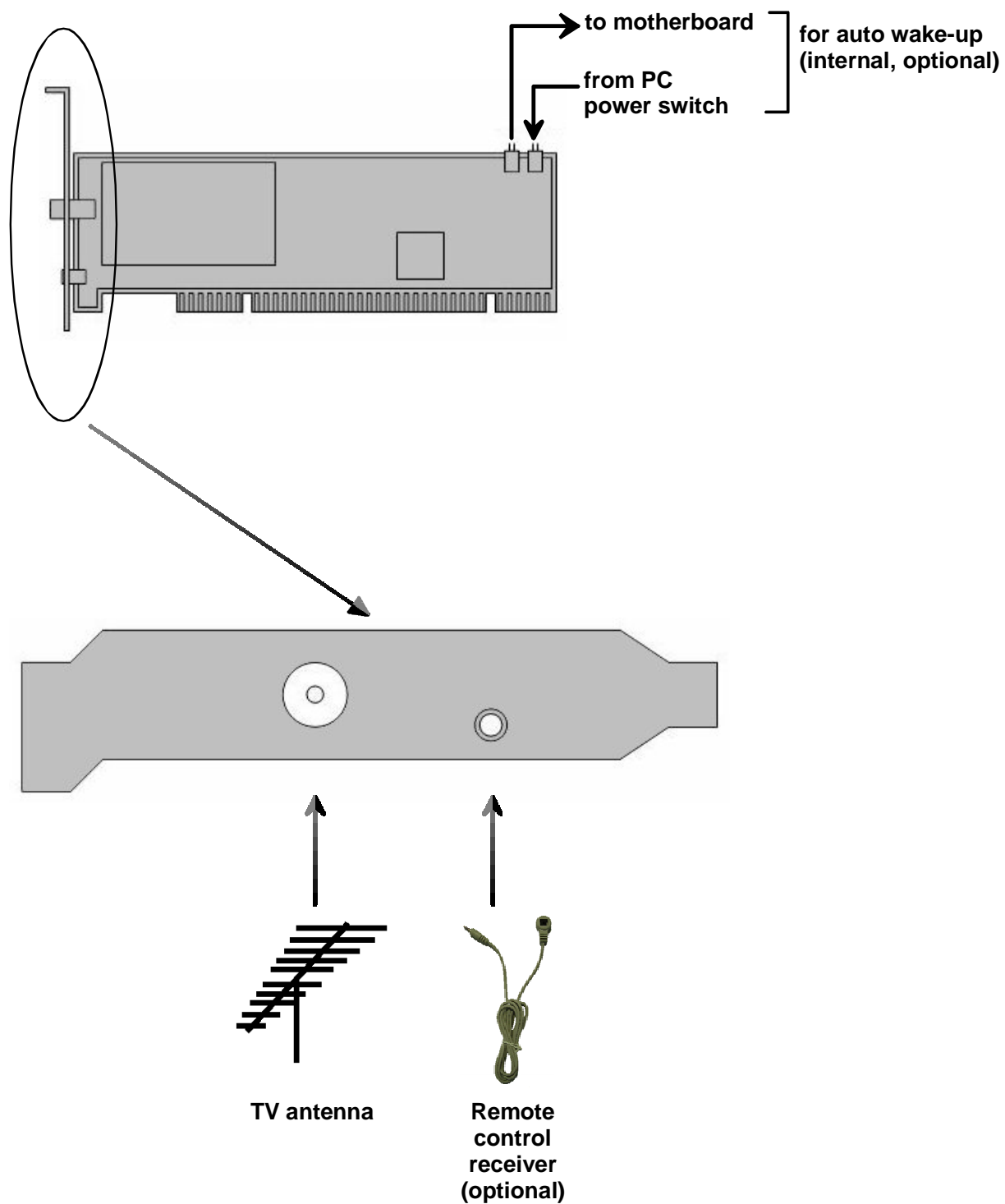


- If you cannot easily insert the card into the slot, do not use force because this can bend and damage the contact springs on the socket connector. Instead, remove the card and try to insert it again.

After Installation

- After you have inserted the hardware, tighten the card retaining bracket firmly on the back of the computer.
- Now place the cover back onto your computer and reconnect the peripherals and the power supply.

Connecting the Equipment



Tips on Positioning the Antenna

For optimal digital terrestrial TV reception, please observe the following instructions:

- Connect to a roof antenna if one is available.
- If you wish to use the indoor antenna, it should be located as near as possible to a window.
- Wherever possible, point the antenna towards the nearest transmitter.
- Try to position an 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 similar equipment.
- Make sure you 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

TV Tuner

- 2 x Microtune MT2060
The frequency range is 48 - 860 MHz (VHF and UHF).

DVB-T Demodulator

- 2 x Zarlink ZL10353
 - 16.64 QAM, QPSK
 - 6, 7, 8 MHz bandwidth
 - UHF, VHF

TV Format

- DVB-T

Remote Input Terminal

- 2.5 mm jack plug for connecting the optional receiver cable included in the package



Konformitätserklärung nach ISO/IEC 17050-1

*Declaration of conformity in accordance with
ISO/IEC 17050-1*

Nr. / No 1.00

Anbieter / *Supplier* : **Pinnacle Systems GmbH**

Anschrift / *Address* : Frankfurter Strasse 3c
38122 Braunschweig, Germany

Produkt / *Product* : **PCTV 2000i**

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	Funkstöreigenschaften 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 61000-4-5 : 2001	Störfestigkeit gegen Stoßspannungen/SURGE <i>Surge immunity test</i>
EN 61000-4-6 : 2001	Störfestigkeit gegen leitungsgeführte Störgrößen, induziert durch hochfrequente Felder <i>Immunity to conducted disturbances, induced by radio-frequency fields</i>
EN 61000-4-8 : 2001	Störfestigkeit gegen Magnetfelder mit energietechnischen Frequenzen <i>Power frequency magnetic field immunity test</i>
EN 61000-4-11 : 2001	Störfestigkeit gegen Spannungseinbrüche, Kurzzeitunterbrechungen und Spannungsschwankungen <i>Voltage dips, short interruptions and voltage variations immunity tests</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, 15. Februar 2006 / *February 15th, 2006*

.....
Dr. Alexander Roy

Director Hardware Engineering

.....
Jörg Tewes

VP Engineering

(Rechtsverbindliche Unterschrift / Legally Binding)