

# Pinnacle Studio Deluxe

Professional Quality Movie Making

## Quick Install Guide



# Before You Begin

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**Important:** Pinnacle Studio Deluxe includes an AVDV video capture board. Install your AVDV board in your PC as described in the instructions below, *prior to* installing the Pinnacle Studio software.

This chapter tells you which computer system components are required for the operation of **STUDIO DELUXE** and what is included in the **STUDIO DELUXE** package contents.

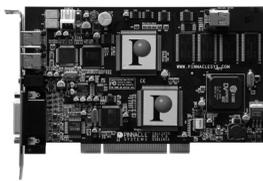
## System Requirements

Please make sure your system meets the following requirements before installing **STUDIO DELUXE**:

- Intel Pentium or AMD Athlon 500 MHz or higher
- 128 MB RAM (256 MB Recommended)
- Windows 98SE, “Millennium”, 2000, or XP
- DirectDraw compatible sound and graphics cards
- Mouse
- CD-ROM drive
- One Free 32-bit PCI slot
- 500 MB of disk space to install all software
- 120 MB of disk space for every 20 minutes of video captured at preview quality (4 GB for every 20 minutes of finished movie). (DV capture only)
- 4 GB for every 20 minutes of Analog video or full quality DV video captured
- Hard disk must be capable of sustained data transfer rates of at least 4 MB per second (dedicated hard drive for video capture recommended)
- Optional: CD-R or CDRW drive for creating Video CDs or SuperVideo CDs
- Optional: DVD-R DVD-RW or DVD+RW drive for creating DVDs

## Package Contents

Please make sure your **STUDIO DELUXE** system is complete before you begin the installation. The system includes\*:



AVDV board



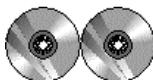
blueBOX



IEEE-1394 cable



Audio loop-through cable



Pinnacle Studio, and Hollywood FX Plus for Studio CD-ROMs



Pinnacle Studio Manual and this Quick Install Guide

*\*Contents or Appearance may vary*

If any parts are missing, please contact your retailer.



Computer components are sensitive to electrostatic charge. Do not take the AVDV board out of its antistatic package until you install it.

# Installing Pinnacle Studio Deluxe

## Defragmenting the hard disk

Before installing and configuring the AVDV board, you should defragment your hard disk/s. You find the Windows defragmentation utility under **Start > Programs > Accessories > System Tools > Disk Defragmenter**.

## SECTION 1: INSTALLING THE AVDV BOARD

In the interest of your own safety and to avoid damage to your AVDV board or your computer, please pay special attention to the following:

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

To install the AVDV board into your computer:

1. Discharge any static electricity from your person by touching the metal case of your computer.
2. Switch off the computer and all peripheral devices. Disconnect the AC power cord and all necessary cables.
3. Loosen the screws of the computer's cover and remove the cover.
4. Select a free PCI slot.
5. Remove the slot shield at the back of the computer (see your computer's user guide for specific directions).
6. Insert the board carefully into the selected slot. Hold the board at the top edge and push both ends simultaneously into the slot. Press the board's top edge to ensure that the board is firmly seated in the slot. If the board cannot be inserted without problems, do not force the board into place (the contacts at the connector could bend). Instead, pull the board out carefully and try again.

7. Once the board is seated firmly, tighten the screws and reassemble the computer's casing. Reconnect all external cables, including the AC power cord.
8. The AVDV hardware installation is completed. You may now restart your computer.

## **SECTION 2: INSTALLING THE AVDV DRIVER**

Before opening and installing the Studio software, please read the license agreement in Appendix F of the Studio User Guide. Opening the CD-ROM package means you concur with the license agreement terms. If you choose not to comply with these terms, keep the software package unopened, and return the complete Studio Deluxe package to your point of purchase.

1. After the AVDV board installation, turn your computer on.
2. The Windows *Add New Hardware* wizard will automatically detect the card.
3. Please cancel the HW installation, the drivers for Studio Deluxe will be installed after you install the Studio software
4. Now, after canceling the windows driver installation please insert your Studio CD-ROM into your CD-ROM drive.

## SECTION 3: INSTALLING THE PINNACLE STUDIO SOFTWARE

1. If you have Autorun enabled for your CD-ROM, Setup will run automatically.  
Note: If you do not have Autorun enabled, navigate to your CD-ROM drive, and double-click on Setup.exe and continue with Step 2.
2. Select the language of your choice and click “OK”.
3. Enter your serial number (found on the outside back cover of the Pinnacle Studio User Guide). Then click “Next.”
4. Agree to the software license terms (click “I Agree”). If you do not accept or understand the terms, you should promptly return this product to your dealer.
5. Choose “Typical” installation (recommended). Only advanced computer users should choose “Custom.”
6. Click “Next” until you are asked to create a Studio 7 shortcut on your desktop, then click “Yes.”
7. Driver Installation After the Studio software is installed, the drivers for the AVDV board will be installed. When installing the drivers on Windows XP or Windows 2000, a Windows dialog box may appear to tell you that the drivers have not passed Windows logo testing. The drivers have been tested extensively by Pinnacle Systems and are compatible with Windows. You may disregard the Windows dialog box and click the "Continue" to install the drivers
8. Restart. In some cases, you may be instructed to restart your PC.
9. Registration. Next, you will be given the opportunity to register your copy of Studio. You can quickly and easily register using your Internet connection. Registration is important for three reasons:
  - Registration allows Pinnacle Systems to inform you of free upgrades to the Studio software
  - Registration makes you eligible for special offers and promotions from Pinnacle Systems
  - Registration is required to receive technical support

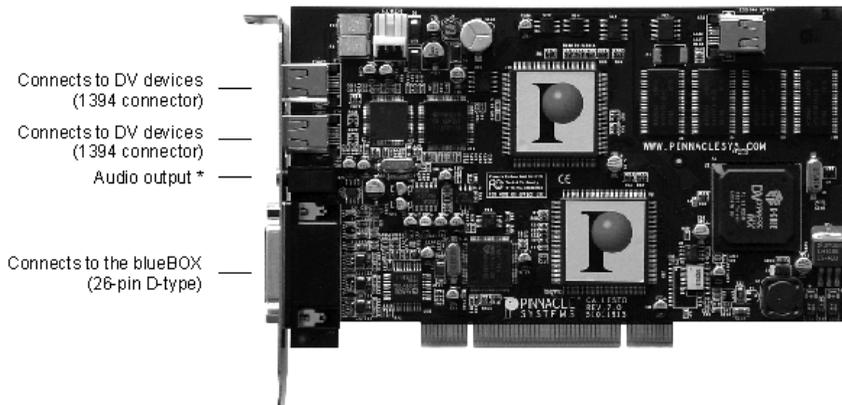
## **SECTION 4: INSTALLING THE HOLLYWOOD FX PLUS FOR STUDIO SOFTWARE**

1. If you have Autorun enabled for your CD-ROM, Setup will run automatically.  
Note: If you do not have Autorun enabled, navigate to your CD-ROM drive, and double-click on Setup.exe and continue with Step 2.
2. Enter your serial number (found on the Hollywood FX Plus for Studio CD sleeve). Then click “Next.”
3. Choose “Install Hollywood FX Plus”
4. Click “Next” until you are asked to enter your serial number again. If the serial number is not already filled in, re-enter it, then click “OK.”
5. Registration. Next, you will be given the opportunity to register your copy of Hollywood FX Plus and join Club Hollywood. You can quickly and easily register using your Internet connection.  
Registration is important for three reasons:
  - Registration allows Pinnacle Systems to inform you of free upgrades to the Hollywood FX Plus software
  - Access to additional FX and upgrades online at Club Hollywood
  - Registration makes you eligible for special offers and promotions from Pinnacle Systems
  - Registration is required to receive technical support

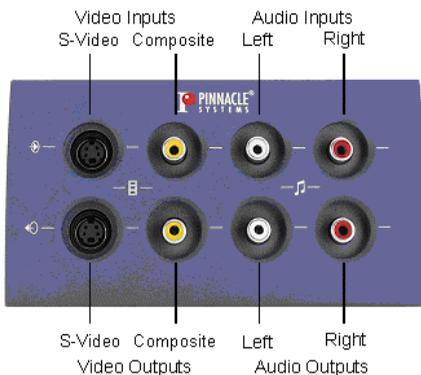
## SECTION 5: CONNECTING THE blueBOX AND THE VIDEO DEVICES

The following chapter tells you how to connect your video devices to the Pinnacle AVDV board via the blueBOX, **with the computer turned off**. To do so you will need the appropriate cables.

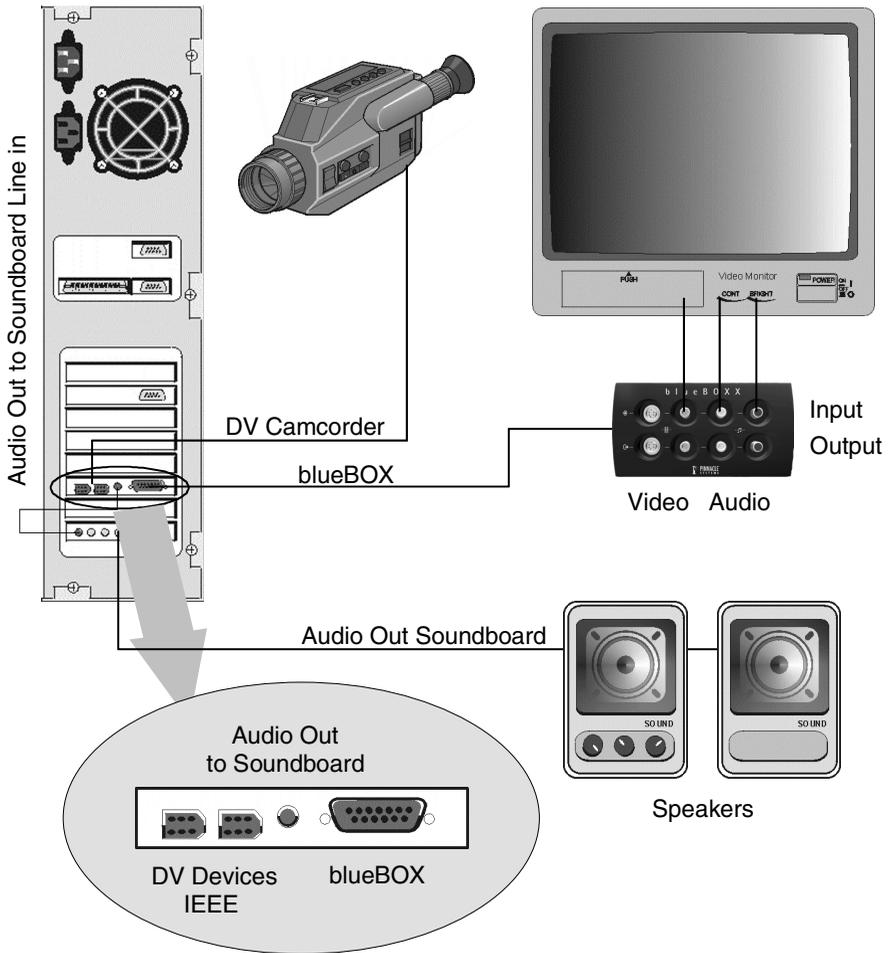
The following illustration shows the AVDV board with its connections:



The following illustration shows the connections of the blueBOX:



# How to Connect Video and Audio Devices



## Connecting the blueBOX

Via the blueBOX you can connect your analog video devices or an external monitor to your AVDV board. Connect the blueBOX to the AVDV board directly via the cable of the blueBOX.

### **blueBOX Out**

### **AVDV Board**

blueBOX-Cabel

➤ D-Sub26-Connector

## Connecting the Audio loop-through

For audio monitoring using your PC speakers, connect the Audio Output on the back of the AVDV board to the Audio Line-IN of your sound board using the Audio loop-through cable included in the package.

## Connecting the Video Devices

In the following, the options for cabling your video source—referred to as the *player*—are described. The player provides the video and audio signals that you want to digitize (“capture”) to your hard disk and then edit on your PC.

Subsequently, connections to the *recorder* are explained. The recorder is the device—typically a VCR—that you would like to output your final production to.

### **Player: DV device**

Devices that connect to the board include any DV or Digital 8 format video camcorder or recorder that has an IEEE-1394/DV connector. On many devices, this connector is labeled “i.Link”.

To connect your DV camcorder/VCR to the **STUDIO DELUXE**, use the IEEE-1394 DV cable included in the package.



#### **1. Connect the IEEE-1394 cable to the Pinnacle AVDV.**

Connect the 6-pin connector of the IEEE 1394 DV cable to one of the 1394 data ports of your AVDV.

## 2. Connect the IEEE-1394 cable to the DV device.

Connect the 4-pin connector of the IEEE 1394 AV cable to the DV IN/OUT or the DV OUT connector of your DV camcorder/VCR.



Video and Audio signals are transferred via the IEEE-1394 cable so no other connection is required to connect your DV device as a player.

## Player: S-Video device / Composite video device

### S-Video

Choose this type of connection if your player has an S-Video output.

The following table gives an overview of the connections:

<b>Player Out</b>	<b>blueBOX In</b>
S-Video Output	➤ S-Video Input
Audio Output L	➤ Audio Input L
Audio Output R	➤ Audio Input R

### Composite video

Choose this type of connection if your player has a Composite video output.

The following table gives an overview of the connections:

<b>Player Out</b>	<b>blueBOX In</b>
Composite Video Output	➤ Composite Video Input
Audio Output L	➤ Audio Input L
Audio Output R	➤ Audio Input R

If your player is equipped with S-Video outputs as well as with Composite video outputs, please choose S-Video, as this will provide a higher level of video quality.

If your player has a SCART connector, you will need an appropriate adapter. This adapter is available wherever video recorders are being sold.

## Recorder: DV device



### *PAL device:*

Studio Deluxe sold in North America are not compatible with PAL video. Many PAL devices sold in Europe usually have only a DV **output**. These can be identified by the label DV OUT (and not DV IN/OUT) on the DV connector. Such devices do **not** support recording of DV data back to videotape. Note that with **STUDIO DELUXE**, you can of course use the analog outputs to play your finished DV project to an analog VCR.

Devices that connect to the board include any DV or Digital 8 format video equipment that has an IEEE-1394/DV connector. On many devices, this connector is labeled “i.LINK”.

If you have not already done so, connect your DV camcorder/VCR to the AVDV board. Use the IEEE-1394 AV cable included in the package.

### **1. Connect the IEEE-1394 cable to the AVDV.**

Connect the 6-pin connector of the IEEE-1394 DV cable to one of the 1394 data ports of your AVDV.

### **2. Connect the IEEE-1394 cable to the DV device.**

Connect the 4-pin connector of the IEEE-1394 AV cable to the DV IN/OUT connector of your DV camcorder/VCR.



Pinnacle **STUDIO DELUXE** can output either to DV or to analog, but not both at the same time. You can select the active output later in Studio by choosing Options/Make Tape.

## Recorder: S-Video device / Composite video device

### S-Video

Choose this type of connection if your recorder has an S-Video input.

The following table gives an overview of the connections:

<b>blueBOX Out</b>	<b>Recorder In</b>
S-Video Output	➤ S-Video Input
Audio Output L	➤ Audio Input L
Audio Output R	➤ Audio Input R

### Composite Video

Choose this type of connection if your recorder has a Composite input.

The following table gives an overview of the connections:

<b>blueBOX Out</b>	<b>Recorder In</b>
Composite Video Output	➤ Composite Video Input
Audio Output L	➤ Audio Input L
Audio Output R	➤ Audio Input R

If your player is equipped with S-Video outputs as well as with Composite video outputs, please choose S-Video, as this will provide a higher level of video quality.

If your player has a SCART connector, you will need an appropriate adapter. This adapter is available wherever video recorders are being sold.

### *Now, have some fun...*

Now that you have installed Studio Deluxe, you can use it immediately. We strongly recommend you take this opportunity to experience Studio Deluxe digital video editing.

In Chapter 3 of the Studio User Guide, you'll find a quick, easy and enjoyable tour through the important parts of Studio Deluxe. You can begin right now—the tour requires no hardware setup, and all the files are pre-organized on your CD-ROM.

## **SECTION 7: TECHNICAL NOTES**

### **1. Updates**

The first time you run Studio you will be prompted to check the Pinnacle Systems website for updated software. We strongly recommend you go through this automated online version checking procedure, and download and install the update if one is available.

We also recommend that you check for new updates periodically. You can do this by selecting the Help/Software Updates menu command.

### **2. Preview Performance of Hollywood FX transitions**

Because Hollywood FX are complex 3D transitions, previews work differently than with other effects.

If your graphics board supports the 3D routines used by Hollywood FX, Studio can use the 3D accelerator hardware on your graphics board for real-time previews. Currently graphics boards using the Nvidia Geforce 2, Nvidia GeForce 3 and ATI Radeon chips support this. If your graphics board uses one of these chips, select Hardware Acceleration in *Setup > Edit*. (You may need to install the latest drivers for your graphics board)

If you don't have hardware 3D acceleration, Studio uses software acceleration. Due to the complex nature of these 3D transitions, previews work differently than do 2D transitions:

When you preview in the Player Window, Hollywood FX plays at reduced resolution. Depending on your PC's performance, real-time previews may not be possible. Playback speeds may be as low as a few frames per second. This affects preview only—when you Make Movie; your transition is rendered at full resolution and frame rate.

When you preview with the scrubber and hold down the Alt key, the transition plays at full resolution but--depending on your PC's capabilities--may not play in real time. Again, this affects preview playback only. When you Make Movie the transition is rendered at full resolution and frame rate.

### **3. Hard disks for capture**

For video editing we recommend you use a second hard disk in your system for capturing and playback. The hard disk must be capable of playing reading and writing at a sustained rate of 4 MB per second. This can be a fast EIDE hard disk. For best results, enable your hard disk as follows: Open the Windows 98 SE Device Manager and click Drives, Settings and enable the DMA checkbox.

### **4. DV Camcorder support**

If you get an error message from Studio when you switch to capture mode, you may have to make a special setting in Windows to support your camcorder. From Windows device manager, select the "1394 Bus Controller" device (OHCI Compliant IEEE 1394 Host Controller) and click the "Properties" button. Go to the "Settings" tab. Check the box labeled "Support Non-Compliant Devices". Now restart your computer. Windows should detect your camcorder when it is plugged in and load the appropriate DV camcorder drivers. This should allow Studio DV / Studio DVplus to capture video from your camcorder.

### **5. SmartCapture and Analog sources**

Preview quality capture is only available when capturing from a DV source. Video captured from analog sources is always saved at full quality

### **6. SmartCapture on DV tapes with multiple timecode segments**

When you use the SmartCapture feature by capturing in preview quality, you must only capture a single timecode segment. If you have a blank spot on your tape that causes the timecode to reset to zero, you need to capture this section separately. When recapturing the video in full quality to make the final movie, Studio uses timecode to locate the correct section of tape, and if the timecode resets within a single capture it will not be possible to do so. Studio automatically stops capturing (for preview-quality captures) if a break in timecode is detected.

## SECTION 8: TROUBLESHOOTING AND TECHNICAL SUPPORT

Before you begin troubleshooting, make sure of the following:

1. You have all current Operating System updates for Windows. If not, go to <http://windowsupdate.microsoft.com/default.htm> and download them.
2. All other installed hardware is functioning normally with the latest drivers, and is not flagged in Device Manager (*Start > Settings > Control Panel > System > Device Manager*). If any devices are flagged, you should resolve these issues before starting installation.

### INSTALLATION

***Problem:*** Images are missing from the recording, or the video is jerky.

***Possible cause:*** Your hard disk's transfer speed is too low.

#### ***Solution***

When working with some UDMA hard disks, the playback may “jump” when file is played back at higher data rates. This can be traced back to the fact that the hard disk carries out a recalibration while reading the file, thus interrupting playback.

This problem is not caused by Studio, but is the result of the manner in which the hard disk operates and interacts with other system components.

There are several solutions you can use to increase the speed of your hard disk:

1. Enable DMA for your hard disk (see the next section for instructions).
2. End task on background applications.  
Before opening your Studio product, hold down the Ctrl and Alt keys on the keyboard, then hit *Delete*. This will open the *Close Program* window. Click on the individual applications listed in the *Close Program* window and select *End Task*. Do this for all applications listed in *Close Programs* EXCEPT Explorer and Systray.

3. Click on *Start > Programs > Accessories > System Tools > ScanDisk*.
4. Make sure *Thorough* is checked, and click *Start* (this may take awhile).
5. After scandisk is done, Click on *Start > Programs > Accessories > System Tools > Disk Defragmenter* (this may take awhile).
6. Turn off Energy-saving features (point your mouse on your desktop, right click, and select *Properties > Screensaver > (under Energy... Settings)*). Make sure everything under *Settings for... power schemes* is set to *Never*.
7. Go to *Start > Settings > Control Panel > System*. Click on the *Performance* tab, then *File System*, then the *Troubleshooting* tab.
8. Click to the left of *Disable write-behind caching for all drives* option to select it, and click *OK*.
9. Under the hard-disk tab, set the *Read-ahead optimization* option to *None*.

In general, this will result in an increase in the data transfer rate.

CAUTION: In some hard disks, this can result in a decrease in the write rate!

General Note: Video Editing programs do not multi-task very well. Do not use any other program while Making Movie (videotape or CD) or Capturing.

## Enabling DMA for your Hard disk

DMA is an abbreviation of **direct memory access**, a technique for transferring data from main memory to a device without passing it through the CPU.

Enabling DMA for a hard drive can significantly improve data transfer rates and improve system performance.

Under the Windows 2000 and XP operating systems DMA is enabled by default. This is not the case with Windows 98 / Millennium edition.

## To enable DMA on a Windows 98 / Millennium system:

1. Go to *Start -> Settings -> Control Panel* and open the *System* icon.
2. Click to the next tab called *Device Manager*.
3. Open the *Disk drives* category.
4. There should be an item called *GENERIC IDE DISK TYPExx* (xx can be any number)
5. Highlight this item and click on *Properties*.
6. Click on the *Settings* tab and locate a checkbox called *DMA*.
7. Check this option and press *OK* in the warning box that follows.
8. Press *OK* on the Properties box and close the device manager.
9. Restart the system.

## TECHNICAL SUPPORT.

Pinnacle Systems has FREE 24 x 7, self-service troubleshooting assistance. 24 hours a day, 7 days a week, you have three ways to find answers to your questions.

To access technical support go to <http://www.pinnaclesys.com/support/studio>

Then and Click “Studio Deluxe” From here you may choose the following support options

1. **FAQ's (Frequently Asked Questions).**  
View 100's of over 100 technical questions and their solutions on a wide range of subjects. This is the best way to get your questions answered. Here you can easily find answers to the most common questions, as well as download the latest updates. They are sorted with the 20 most commonly read questions listed. It is also easy to sort the documents by problem category, by using the "Category" pull down menu.
2. **Ask a Question, Find an Answer.** Simply type in your question to see a list of the most likely solutions. Using this natural language search, you can type in your question or the symptom of your problem, such as "I am having problems outputting to tape" or "I get an error message when I try to

capture". If you do not get relevant solutions, try rephrasing your question. For example, instead of entering "I get an error", try "I get an error that states that my data rate is below 4000 kbs when I capture".

You can also select a Category from the pull down list to see questions/issues grouped together. For example, if you have a question about installing the hardware or software, choose the Category "Setup, Install and Configuration Issues" to see the top 10 installation questions. The categories follow the main features of Studio 8, Capture, Edit, Make and Output, along with some other general categories.

3. **Discussion Forum.** There are nearly 100,000 users that have registered to use this FREE service. Search Pinnacle Systems' online Discussion Forum to see if someone has already encountered your question. Post your question on the Discussion Forum and get help from Pinnacle Systems and other users. This forum is also searchable so you can—for example—type in “dropping frames and discussions with solutions on this topic will be displayed.

Once you post to the Discussion Forum, you can get an email notification when someone has replied to your question. To get email notification, after you post your question, simply click on the Email button in the upper right hand corner of the Discussion Forum browser window, then click OK.

4. **Email Support.** If you are unable to find answers to your questions using our website, Pinnacle Systems also offers troubleshooting and technical support by email. Email is usually responded to within 48 hours (excluding weekends and holidays). Use the Ask a Question section of the support web site to submit an email. Before the email is submitted, 5 suggested solutions to your issue will be presented to you. Please review them. Over 70% of customer that begin to submit their question, find their answer in these suggested solutions.

## SECTION 9: WARRANTY

### Pinnacle End User License Agreement

This End User License Agreement (“License”) is a legal agreement between you and Pinnacle Systems (“Pinnacle”) regarding Pinnacle’s software and the accompanying documentation (collectively, the “Software”). CAREFULLY READ THE FOLLOWING LICENSE. USING THIS SOFTWARE INDICATES YOUR ACCEPTANCE OF THIS LICENSE. IF YOU DO NOT ACCEPT OR UNDERSTAND THE TERMS OF THIS LICENSE, YOU SHOULD NOT INSTALL THE SOFTWARE AND PROMPTLY RETURN THIS PRODUCT TO YOUR VALUE-ADDED RESELLER.

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**2. License Restrictions.** You may not, or allow any third party to, (a) rent, lease, sell, loan or otherwise transfer the Software or any of your rights and obligations under this License; (b) install the Software on a network for use by multiple users, unless each user has purchased a license; (c) reverse-engineer, decompile or disassemble the Software or hardware in whole or in part; (d) remove or destroy any copyright notices or other proprietary markings of the Software or any third-party software; (e) modify or adapt the Software, merge the Software into another program or create derivative works based on the Software; (f) make copies of or distribute, for profit or otherwise, the Software, except as expressly provided above; (g) make any alteration, modification, connection, disconnection, improvement or adjustment of any kind to or use the Software except as explicitly contemplated in the enclosed documentation and in this License and (h) sublicense, transfer or assign this License or any of the rights and obligations granted under this License, except as explicitly contemplated in this License. Any purported transfer or assignment will be void.

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**7. Term and Termination.** This License shall be effective upon installation of the Software and shall terminate upon the earlier of (a) your failure to comply with any term of this License; (b) return, destruction or deletion of all copies of the Software in your possession or (c) transfer of the Software and this License to another party in accordance with Section 1(d). Pinnacle's rights and your obligations shall survive termination of this License.

**8. Limited Warranty.** Pinnacle warrants to the original licensee that the Software, as delivered, will perform in accordance with the accompanying documentation for a period of 30 days from the date of the original purchase (“Limited Warranty”). Pinnacle’s entire liability and your exclusive remedy for breach of the preceding Limited Warranty shall be, at Pinnacle’s sole option, repair or replacement of the Software that does not meet the warranty set forth herein and that is returned to Pinnacle. This limited warranty shall be void if failure of the Software has resulted from any accident, abuse, misuse or misapplication by you. Any replacement Software will be warranted for the remainder of the original warranty period or 30 days, whichever is longer.

**9. NO OTHER WARRANTIES.** EXCEPT AS SET FORTH ABOVE, THE SOFTWARE IS PROVIDED ON AN “AS IS” BASIS. YOU ASSUME ALL RESPONSIBILITIES FOR THE QUALITY AND PERFORMANCE OF THE SOFTWARE. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, PINNACLE DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NONINFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE. LICENSOR DOES NOT WARRANT THAT THE FUNCTIONS CONTAINED IN THE SOFTWARE WILL MEET YOUR REQUIREMENTS, BE UNINTERRUPTED OR ERROR FREE.

**10. LIMITATION OF LIABILITY.** YOU AGREE THAT IN NO EVENT WILL PINNACLE BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INDIRECT, INCIDENTAL OR PUNITIVE DAMAGES WHATSOEVER, EVEN IF PINNACLE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL PINNACLE’S LIABILITY EXCEED THE TOTAL AMOUNT OF THE FEES PAID FOR THE SOFTWARE. Some states/jurisdictions do not allow the limitation or exclusion of incidental or consequential damages in certain circumstances, so the above limitations may not apply in some circumstances.

**11. General.** This License is governed by the laws of the State of California and by the federal laws of the United States, without reference to conflict of laws principles. The federal and state courts within the County of Santa Clara, California shall have exclusive jurisdiction to adjudicate any dispute arising out of this License and you hereby consent to the personal jurisdiction of the federal and state courts within the County of Santa Clara, California. This License is the entire agreement between you and Pinnacle and supersedes any other communication with respect to the Software. No modification of or amendment to this License will be effective unless in writing signed by both parties. If any provision of this License is held invalid or unenforceable, the remainder of this License will continue in full force and effect.



## Konformitätserklärung nach ISO/IEC Guide 22

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

Nr. / No 1.01  
Anbieter / *Supplier* : **Pinnacle Systems GmbH**  
Anschritt / *Address* : Frankfurter Strasse 3c  
38122 Braunschweig, Germany  
Produkt / *Product* : **DV500 / DV500 PLUS**

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 55022 : 1998 Class B	Grenzwerte und Messverfahren für Funkstörungen von Einrichtungen der Informationstechnik <i>Limits and methods of measurement of radio interference characteristics of information technology equipment</i>
EN 55024 : 1999	Störfestigkeitseigenschaften für Einrichtungen der Informationstechnik - Grenzwerte und Prüfverfahren <i>Immunity characteristics for information technology equipment - limits and methods of measurement</i>
EN 61000-4-2 : 1995 + A1 : 1998	Störfestigkeit gegen Entladung statischer Elektrizität <i>Electrostatic discharge immunity test</i>
EN 61000-4-3 : 1996 + A1 : 1998	Störfestigkeit gegen hochfrequente elektromagnetische Felder <i>Radiated, radio-frequency, electromagnetic field immunity test</i>
EN 61000-4-4 : 1995	Störfestigkeit gegen schnelle transiente elektrische Störgrößen/BURST <i>Electrical fast transient/burst immunity test</i>
EN 61000-4-6 : 1996	Störfestigkeit gegen leitungsgeführte Störgrößen, induziert durch hochfrequente Felder <i>Immunity to conducted disturbances, induced by radio-frequency fields</i>
ENV 50204 : 1995	Störfestigkeit gegen hochfrequente elektromagnetische Felder von digitalen Funktelefonen <i>Radiated electromagnetic field from digital radio telephones - Immunity test</i>
EN 61000-3-2 : 1998 + A14 : 2000	Grenzwerte für Oberschwingungsströme <i>Limitations for harmonic currents</i>
EN 61000-3-3 : 1996	Grenzwerte für Spannungsschwankungen und Flicker <i>Limitations of voltage fluctuations and flicker</i>
EN 60950 : 2000	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, 14. November 2001 / *November 14th, 2001*

**Bernd Riemann**  
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(Rechtsverbindliche Unterschrift / *Legally Binding*)

# FCC Compliance Statement

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## FOR YOUR OWN SAFETY

NOTE: Shielded cables should be used for a composite interface. This is to ensure continued protection against radio frequency interference.

## FCC WARNING STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

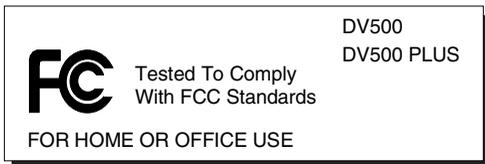
## CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Shielded interface cable must be used in order to comply with the emission limits.

## LABEL WARNING

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



# Notes