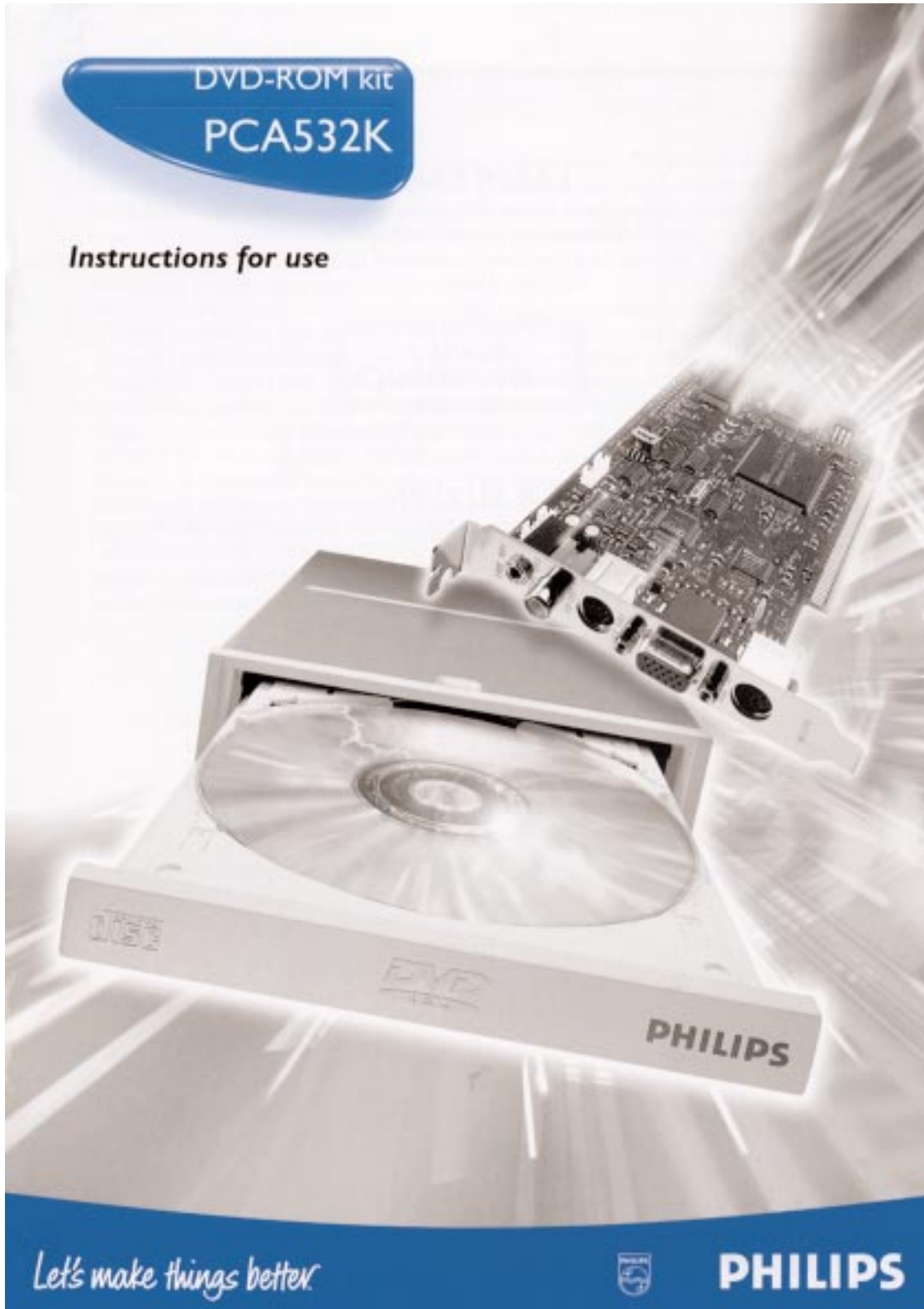


DVD-ROM kit
PCA532K

Instructions for use



Let's make things better



PHILIPS

PCA532 DK01	15861385
MODEL NUMBER	SERIAL NUMBER

LASER SAFETY

This DVD drive employs a laser. Do not remove the cover or attempt to service this device when connected due to the possibility of eye damage.

**CLASS 1
LASER PRODUCT**

CAUTION

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS LASER RADIATION EXPOSURE.

CAUTION

LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM.



FOR EUROPE

The DVD-ROM drive is in conformity with the EMC directive and low-voltage directive.

Philips DVD-ROM kit

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September 8, 1998

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English

FCC Compliance Statement

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 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 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.

Notice

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. Shielded cables and I/O cords must be used for this equipment to comply with the relevant FCC regulations.

Changes or modifications not expressly approved in writing by Philips, may void the user's authority to operate this equipment. This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the radio interference regulation of the Canadian Department of Communication.

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English

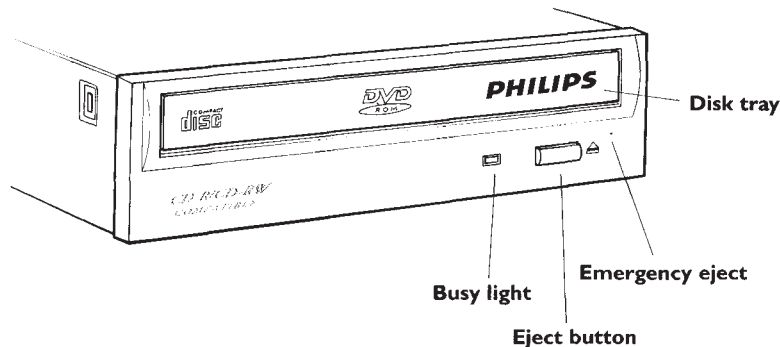
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Chapter 1.

Introduction

Congratulations on your purchase of the Philips DVD-ROM-2 kit.

This manual takes you step-by-step through the process of setting up and installing the DVD-ROM drive and DVD/MPEG-2 playback card. Please read it carefully and store for future reference.



Philips DVD-ROM Drive

The Philips DVD-ROM drives are among the most advanced drives available today. Their features include:

- Simple tray operation; just press eject, drop in a disk and close the tray again.
- Backwards-compatibility; it can read CD-ROM and CD-audio disks.
- Enhanced IDE /ATAPI interface; connect the drive to an existing IDE controller.

Digital Versatile Disk (DVD) is the new standard for optical digital storage. It may look just like a standard CD, but a DVD can hold a phenomenal amount of information: up to 17 gigaBytes.

REALmagic Hollywood Plus DVD/MPEG-2 Playback Card

The REALmagic Hollywood Plus playback card and application software, together with the DVD-ROM drive, transforms your computer into a full-function DVD player, and provides you with uncompromising high performance hardware MPEG-2 digital video playback capability.

The REALmagic Hollywood Plus also has S/PDIF output for Dolby(tm) Digital (also called AC-3) Surround Sound. This provides full 6-channel surround sound for an amazing home theatre experience when connected to a Dolby Digital Surround Sound amplifier.

System Requirements

The Philips DVD/MPEG-2 kit requires the following:

- 2 megabytes (MB) of free hard disk space
- 16MB of RAM
- Pentium-based PC (or compatible), 133 MHz or higher
- A free PCI 2.1 compliant expansion slot
- A free half-height drive bay at the front of the computer
- VGA card
- Plug and Play BIOS support
- Microsoft(tm) Windows 95 or Windows 98
- Amplified stereo speakers (Dolby Digital or Dolby Pro Logic amplifier and speakers required for surround sound)
- A free IDE controller channel
- Bus mastering IDE controller recommended

Microsoft recommends a bus-mastering IDE controller and driver for proper DVD-Video playback. Windows 95B (OS/R2) and Windows 98 include the bus-mastering IDE drivers for most systems, but Windows 95A does not. If your computer is new, it is very likely that it already has the appropriate hardware and driver for bus-mastering IDE. Otherwise, check to see if your computer is built around Intel motherboard chip sets. If it is, you may obtain bus-mastering IDE drivers on Intel's web site. If your computer does not use Intel chip sets, contact your computer's manufacturer to locate bus-mastering IDE drivers for your particular system.

To find out which version of Windows 95 you have, click on the Start button and select Settings/Control Panel. Double-click on the System icon. In the General tab, under the System section, you will see the version of Windows 95 you have. If it is 4.00.950, then you have Windows 95A. If it is 4.00.950 B, then you have Windows 95B.

Without the bus-mastering driver, the DVD-ROM drive may not always be able to send data at the required rate. This can cause dropped frames or jerky video, noise, and audio problems. Because your DVD/MPEG-2 Playback Card does not over-burden the Pentium, these problems typically do not happen when viewing a movie unless you run another program while the movie is playing.

Chapter 2.

Hardware Installation

Before you start you will need a small cross-head screwdriver and enough room to remove the case of your computer. The description and drawings in this chapter are based on a typical desk-top computer. If your computer casing or layout is different, refer to the computer's user guide for details of how to fit additional drives. Before you start, read through this whole section.

Warning!

Before you proceed with the following steps, switch off the computer and disconnect it from the power supply.

To install the hardware proceed as follows:

- Turn off the power to the computer and to the VGA monitor.
- Unplug (disconnect) the power cord from the computer.
- Disconnect the VGA monitor cable from your computer.
- Remove the computer's case. (Consult the manual supplied with your computer for details on how to remove the casing.)

Installing the DVD-ROM drive

To set up and install the DVD-ROM drive in your computer, all you have to do is:

- Check your computer to see if it has a free IDE connector or whether you will need a second controller from your computer supplier.
- Set the jumper plugs on the drive (if necessary)
- Fit the drive into a free drive bay at the front of the computer
- Connect the drive to your IDE controller
- Connect a power cable to your drive
- Connect the audio cable
- Secure the drive

Checking the IDE Controller

The Philips DVD-ROM drive is an EIDE (Enhanced Integrated Drive Electronics) drive. Most personal computers use IDE or EIDE to control their disk drives. Your DVD-ROM drive works with any EIDE controller and with some older IDE controllers. Performance improves however when newer EIDE controllers are used.

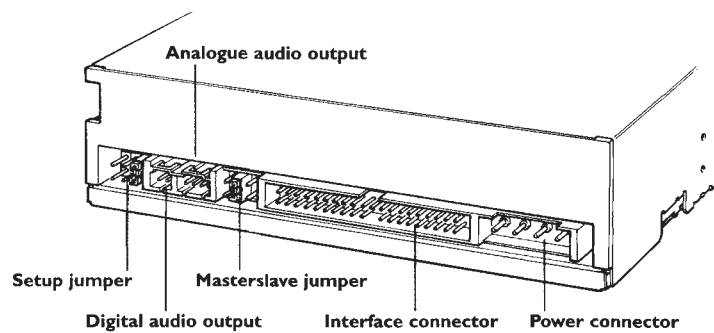
The disk drives in your computer are controlled either by a plug-in IDE or EIDE card, or by an EIDE controller built onto the motherboard. Check the user manual supplied with your computer for details of how the drives in your computer are connected. The latest controllers have two channels. This means that two EIDE cables can be attached to the controller and each cable can connect to two drives (a master drive and a slave drive).

Locate the hard disk drive in your computer; the flat, 40-core cable connected to it leads either to a plug-in card or directly to a socket on the motherboard. This is the controller's primary cable. Next to the socket where the primary cable attaches to the controller, there may be a second, identical socket where a cable can be attached. This is the secondary channel. If a cable is already attached, this is the secondary cable.

If there is a socket but no cable, you need to get a 40-core EIDE DVD-ROM cable from your supplier. If your controller does not have a second channel or if the cable connected to your controller has no free connectors, you need to get a 2-channel EIDE controller from your supplier.

Jumper Setup

The back of your DVD-ROM drive looks like this:

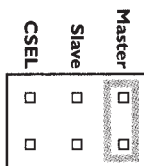


Eject Suppression Switch (PRV/ALW)

The right-most switch inhibits the operation of the DVD-ROM drive's EJECT button. When this switch is set to ON, the EJECT button operates normally, opening the DVD-ROM tray. When the switch is set to OFF, the EJECT button cannot be used to open the drive. The default setting for this switch is ON.

Setting the Master/Slave Jumper

The Master/Slave jumper of the drive may have to be set before the drive is installed. The setting of this jumper depends on the IDE controller configuration of your computer. Check the configuration your computer uses and set the Master/Slave jumper on the DVD-ROM drive accordingly. Refer to the documentation supplied with the hard disk drives in your computer for their configuration switch settings:

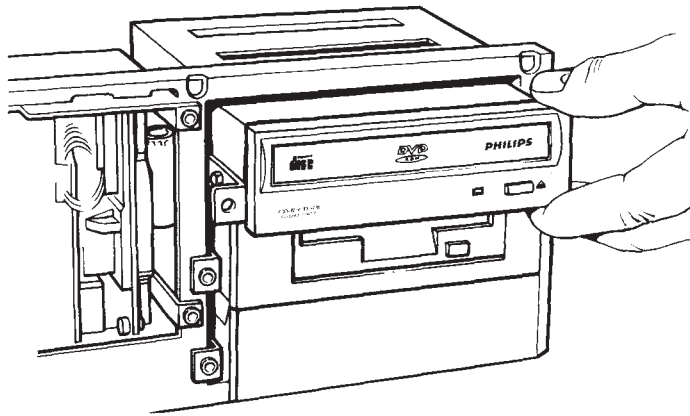


To get the best performance from your disk drives and your DVD-ROM drive use one IDE channel for hard disks and the other for your DVD-ROM drive. It is possible to attach a DVD-ROM drive to the same cable as a hard disk drive, but it is not recommended as the hard disk performance suffers.

If you must use the same IDE controller cable for two drives, configured one drive as the master drive and the other as the slave drive by setting the jumper to either the master position or the slave position. If the jumper connects the two pins, it is switched **ON**. If the jumper touches only one pin, or is not present, it is **OFF**. Only one jumper should ever be fitted to this switch block.

Fitting the DVD-ROM drive into a Free Bay

The DVD-ROM drive fits into any free standard half-height drive bay at the front of the computer. Free drive bays normally have a cover plate of metal or plastic that conceals the front of the bay. This is either clipped into place or fixed with two screws. Remove the cover plate from the bay where you wish to fit the DVD-ROM drive.



With the disk tray at the front of the computer, carefully slide the DVD-ROM drive into the opening.

Connecting the DVD-ROM drive to your IDE Controller

Connect the free IDE controller cable that you have identified earlier to the DVD-ROM drive. The 40-pin connector fits into the interface socket on the back of the drive.

One edge of the ribbon cable is colored red or is marked with a stripe; this identifies pin 1 of the cable plug. The corresponding pin 1 on the DVD-ROM drive's interface socket is next to the DVD-ROM drive's power socket. Make sure that pin 1 on the cable plug aligns with pin 1 on the DVD-ROM drive. Carefully push the connector into the socket, making sure it goes all the way in.

Normally the IDE connector has a lug that should fit into the groove of the drive's socket to ensure correct alignment.

If necessary, gently rearrange the cables inside the casing to ensure that the connector reaches your DVD-ROM drive when it is fitted. Don't worry if you have to unplug the cable from your hard disk drive. Just note which way it attaches and reattach it the same way when you have finished. The DVD-ROM drive or the hard-disk drive can use either plug on the IDE cable, so don't worry if you have to change their positions.

Connecting the DVD-ROM drive to a DC Power Lead

There should be a small DC power lead inside your computer, ready to connect to the back of the drive. If no power lead is available, consult your computer dealer or support service. You may need a power splitter cable - a Y-shaped cable which provides two power outputs from one input.

There is only one way to fit the connector into the power socket on the back of the drive. One side of the plug has chamfered edges - make sure the plug fits into the socket correctly. Carefully push the plug all the way into the socket.

Connecting the Audio Cable

You can play audio CDs on your DVD-ROM drive through your computer. Connect one end of the audio cable to the analogue audio connector at the rear of the DVD-ROM drive. The other end of the cable attaches to the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card once it has been installed.

Secure the DVD-ROM Drive

Push the DVD-ROM drive all the way into the slot until it is flush with your computer and secure it in place with screws on either side. The internal drive should be mounted within 20° of the horizontal or within 10° of the vertical.

Installing the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card

Follow the steps below to install the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card (Figure 1) into your computer.

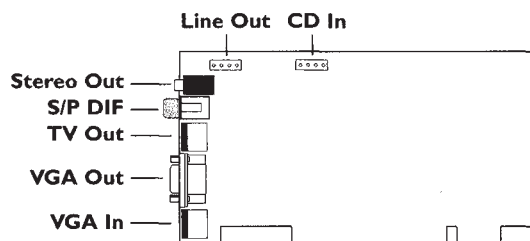


Figure 1. REALmagic Hollywood Plus DVD/MPEG-2 Playback Card

Handling the Board

Caution:

Static electricity can damage your equipment. Do not take the board out of its static protective bag until you are ready to work with it.

Follow these precautions when handling the board:

- Before you open the static protective bag, touch it to a metal expansion slot cover on the back of your computer. This drains static electricity from the package and from your body.
 - Do not touch any exposed printed circuitry after opening the package.
 - Keep other people from touching the board. They might have a static-electricity buildup.
 - Limit your movement. Movement causes a buildup of static electricity.
1. Locate an available PCI expansion slot.
 2. Remove the slot cover screw and slot cover, if applicable.
 3. Open the protective sleeve containing the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card, grasp the circuit board by the edge of its mounting bracket, and remove it from the protective sleeve.
 4. Insert the REALmagic Hollywood Plus card into the PCI expansion slot. Press down gently on the top edges of the board to ensure that all connecting points are seated securely. Anchor the board's mounting bracket using the screw removed earlier.

Audio Connections

The DVD/MPEG-2 Playback Card includes an internal CD Audio In connector that allows you to pass CD audio through to the internal CD Audio In connector on your sound card. To do this, attach the CD Audio cable from the DVD-ROM drive to the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card, then attach another cable from the internal Line Out port from the REALmagic Hollywood Plus to the CD Audio In connector on your sound card. Refer to Figure 1 for the locations of these internal connectors.

The signal from the Line Out port combines the CD Audio In signal from the DVD-ROM drive with the same signal that is output through the Stereo Output Port on the REALmagic Hollywood Plus. This solution eliminates the external audio cable that normally goes from the DVD/MPEG-2 Playback Card to your sound card. If you are using this solution, attach the Pro Logic receiver to the Line Out port of your sound card to obtain the surround sound signal. The volume for both CD audio and MPEG audio will then be controlled by the CD Audio portion of your mixer.

Replacing the Cover

When both the DVD-ROM drive and the REALmagic Hollywood Plus card have been installed, replace the cover of your computer and reconnect the power cord.

Video Connection

Your REALmagic Hollywood Plus DVD/MPEG-2 Playback Card must be connected to your VGA card or your PC's VGA output port in order to display MPEG video on your VGA monitor. (Refer to Figure 1 earlier in this Chapter for reference.) Follow the steps to connect the DVD/MPEG-2 Playback Card to your VGA output (see Figure 2).

1. Attach the round 9-pin DIN connector of the provided External VGA Pass-Through Cable to the VGA IN connector at the back of the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card (refer to Figure 1).
2. Attach the other end (15-pin "D" shape) of the cable to the output port on your VGA card or your PC's VGA output port.
3. Connect the VGA cable from your VGA monitor to the VGA OUT of the DVD/MPEG-2 Playback Card.

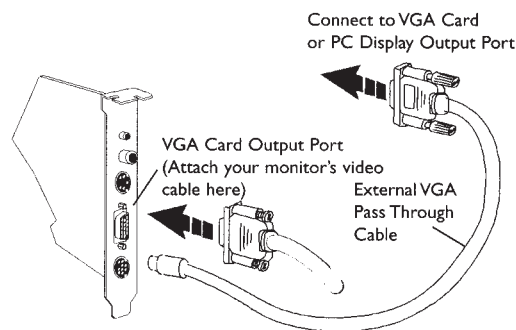


Figure 2. Video Connection

Audio Connections

There are two audio outputs on the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card: the Stereo Out and the S/PDIF connector. The Stereo Out outputs a standard analog stereo signal that can be used by virtually any stereo receivers or amplified speakers. It also contains the Pro Logic Surround Sound encoding that allows you to achieve surround sound by attaching this signal to a Pro Logic receiver.

If you have installed the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card as described above, then the Stereo Out signal is passed internally to the sound card. This eliminates the external audio cable that normally goes from the DVD/MPEG-2 Playback Card to your sound card. (If you are not using the above solution, we recommend attaching the Stereo Output signal to the LINE-IN port on your sound card. A standard mini jack audio cable can be used for this audio connection.)

Attach the Pro Logic receiver to the LINE-OUT or SPEAKER port on your sound card to obtain the surround sound signal. This will allow you to use one set of speakers to listen to both DVD/MPEG-2 audio as well as other types of audio from your sound card. It will also allow you to control the volume by using the mixer program provided with your sound card. Of course, you can always attach the Stereo Out signal from the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card directly to a Pro Logic receiver or speakers.

Connect your Dolby Digital Surround Soundreceiver to the S/PDIF connector. This signal contains all six Dolby Digital Surround Sound channels.

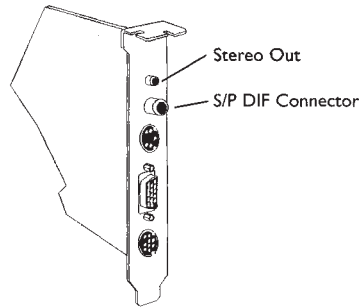


Figure 3. Audio Connections

TV Connections

There are two options for connecting your REALmagic Hollywood Plus DVD/MPEG-2 Playback Card to a television: S-Video by using a standard S-Video cable, or composite video by using an S-Video to Composite converter cable.

The REALmagic Hollywood Plus DVD/MPEG-2 Playback card can be connected directly to a TV using an S-Video cable. The S-Video TV Out connector on the REALmagic Hollywood Plus is a 7-pin S-Video connector, which can be connected directly to a TV using a standard S-Video cable. If your television set does not have an S-Video input port, you may connect it to the REALmagic Hollywood Plus by using an S-Video to Composite converter cable.

Composite Video is more common and works with most televisions. The S-Video Out connector provides better picture quality.

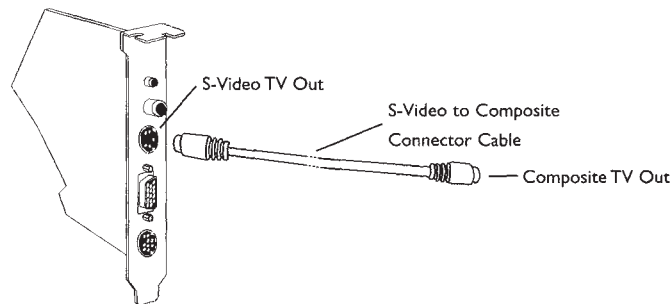


Figure 4. TV Connections

Note:

*Due to the copyright protection circuit in use by this product, please do not connect any recording device, such as a VCR, to the Composite Video Out or the S-Video Out connectors of the DVD/MPEG-2 Playback Card.
For best playback, make sure the DVD title is played directly from the DVD/MPEG-2 Playback Card onto a TV, not through a VCR.*

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Chapter 3.

Driver Installation

Your Philips DVD-ROM drive does not need any special drivers for Windows 95 or Windows 98. Windows 95 and Windows 98 have drivers that support all popular peripherals, including ATAPI DVD-ROM drives.

Follow the steps below carefully to install the software for the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card. Skipping steps may result in improper operation.

Driver Installation

1. Turn on the power to your computer.
2. After the Windows logo screen, the **New Hardware Found** dialog box will appear to inform you that the system has found a **PCI Multimedia Video Device**.
3. Windows will start a driver information database, and the device driver wizard will show a device with the signature **PCI Multimedia Video Device**.
4. Insert the disk labeled Drivers and application software into the DVD-ROM drive and click Finish. REALmagic Hollywood Plus will appear in the window.
5. Windows will then prompt you for the path to the drivers with the message **Please insert the disk labeled REALmagic Hollywood Plus Installation Disk in your disk drive and click OK**.
6. Click **OK**. This process will copy drivers and software for the REALmagic Hollywood Plus DVD/MPEG-2 Playback Card onto your hard disk.
7. When the driver installation is finished, restart Windows.

Chapter 4. Application Software

Application Software

The CD-ROM delivered with the kit contains the application software - **DVD Station** - a versatile Windows application that provides you extended control features for your DVD-ROM. To install and set up this software proceed as follows:

1. Place the CD-ROM delivered with the kit in the DVD-ROM drive.
2. From the Windows taskbar, click the **Start** button, and then select **Run...**
3. Type **D:\SETUP** and click **OK**. (If your DVD-ROM drive is assigned a different letter, use that letter instead of D.)
4. Setup now asks you to select one of the following options:
 - Install the REALmagic applications
 - Change the DVD Region Code
5. If you are installing the REALmagic Hollywood Plus card and applications for the first time, check Install the REALmagic applications and click **OK**. (Refer to the Setting and Changing DVD Region Code section in the user's manual for details on changing and setting a region code.)
6. By default, Setup installs the DVD Station into a directory called **REALmagc**. Click the **Next** button to accept this directory. You may choose another directory by selecting **Browse** and entering the path information.
7. After copying the files the setup program prompts you to select a DVD region code. Select a region code from 1 to 6 depending on the country you are in. Click **OK** and the setup program prompts you about the successful completion of the region code setup.

Note:

The Setup program will not ask you to set the Region Code if you are reinstalling the card in the same region code at a later time.

8. At the end of the installation procedure, the setup program shows a Setup Complete window with the following message:

Setup has finished installing the REALmagic software. In order to have the border ready for operation, it is required to execute the "Border Adjust" option from the "REALmagic Configuration" window. To skip this setting for now, check the "Don't launch configuration Window" option below.

9. Click **Finish** to complete the installation of the REALmagic application software. At this stage the setup program automatically launches REALmagic Configuration.
10. Click **Auto calibration**. This adjusts the border and color calibration simultaneously. The monitor screen flickers for about 5 to 10 seconds during this process and then becomes normal. Auto calibration usually does a fine job with the border, however, if the border is not adjusted properly, or if you do not launch the REALmagic configuration during installation of the software for REALmagic Hollywood Plus, refer to the Border Adjustment and Color Calibration section of the user's manual to make further adjustments.

User Manuals

The user manuals for the software application can be found on the CD-ROM supplied with this kit in the Manuals sub-directory. These manuals are formatted as Acrobat files (PDF). To be able to read them, the Acrobat Reader program must be installed on your computer. If this program is not already installed proceed as follows:

1. Place the CD-ROM delivered with the kit in the DVD-ROM drive.
2. From the Windows taskbar, click the **Start** button, and then select **Run...**
3. Type **D:\Manuals\Acrobat\Setup** and click **OK**. (If your DVD-ROM drive is assigned a different letter, use that letter instead of D.)

Follow the instructions on the screen to set-up the Acrobat reader.

Chapter 5.

Care and Use of Your DVD-ROM Drive

Caring for your DVD-ROM drive is mostly common sense. Some points to remember:

- Do not expose your DVD-ROM drive to extreme temperatures, excessive dust or high humidity
- Do not install your DVD-ROM drive near any device that produces strong electrical waves or magnetic fields
- Do not place heavy objects on your DVD-ROM drive
- Do not open your DVD-ROM drive, there are no user serviceable parts inside and doing so invalidates your warranty
- Install your DVD-ROM drive where it will not be subject to vibrations.

The DVD-ROM drive controls

Your DVD-ROM drive has the following features and controls:

- Disk tray
- Eject button
- Emergency Eject
- Busy light

The Eject Button

Pressing the Eject button opens the disk tray so you can put in or take out a disk.

Emergency Eject

You can still remove the disk from the drive even if the power supply to the DVD-ROM drive fails. There is a small opening on the right of the front panel of the DVD-ROM drive. Insert a pointed instrument (a straightened paper clip is ideal) into the opening and the disk tray opens.

Operating the Disk Tray

Just press the Eject button to open the disk tray and remove or install your disk.

NOTE:

With desk-top computers never place drinks or other delicate objects in front of the disk tray!

Loading a Disk

Put a disk into the tray of the DVD-ROM drive and gently push on the front of the open disk tray. The tray automatically slides into the DVD-ROM drive.

Additional information available at our website:
www.pc.be.philips.com

Specifications subject to change without notice.
All dimensions shown are approximate.

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