ALL-IN-WONDER™ RADEON™ / ALL-IN-WONDER™ 128 PRO / ALL-IN-WONDER™ 128

Installation and Setup

User's Guide

Version 4.0   P/N 137-70090-40 Rev. D

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Product Notices

Dolby* Laboratories, Inc.

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CHAPTER 1

Getting Started

Welcome to the convergence of your PC, TV and video! This new technology changes the way you view TV, graphics, and video on your PC.

The ALL-IN-WONDER cards are powerful TV tuners, DVD players, digital VCRs, and 2D & 3D graphics and video accelerators. Their features will take your PC's graphics and video capabilities to the next level.

This guide provides all the information you need to install your ALL-IN-WONDER card.

IN THIS CHAPTER...

■ **Using this Guide** on page 6

■ **What is the ALL-IN-WONDER Family?** on page 7

■ **System Requirements** on page 9

■ **Other Sources of Information** on page 10

Using this Guide

The organization of this guide is as follows:

Installing the Hardware and Software on page 11 provides instructions for installing your ALL-IN-WONDER card and software, and connecting video input and output devices to your ALL-IN-WONDER card.

Using Your ALL-IN-WONDER on page 33 explains how you can take advantage of the advanced new features of your ALL-IN-WONDER card.

Reference on page 43 provides troubleshooting tips and regulatory compliance information for your card.

User Guide: The **ATI Multimedia Center User's Guide** that came with your card explains how to use the special features that the ATI Multimedia Center provides.

What is the ALL-IN-WONDER Family?

The ALL-IN-WONDER family of cards delivers high-performance 3D and 2D graphics, as well as advanced multimedia features. You can play games, watch TV or videos, listen to audio CDs, explore the Internet, and work in Windows® 98, Windows® Millennium Edition, and Windows® 2000 as never before.

ALL-IN-WONDER's advanced 3D acceleration gives you detailed color graphics and 3D features like multi-texturing, alpha blending, and fog effects. ALL-IN-WONDER also provides powerful 2D graphics features through the Display Properties pages:

Settings	Customize your desktop settings such as desktop size, screen resolution and color depth, and store various desktop preferences for easy recall later.
Adjustment	Adjust the position and size of your screen, as well as manipulate the screen refresh rate, frequencies and synchronization.
Color Correction	Correct color tone differences between real color values and the way your monitor displays them, and store various color correction preferences for easy recall later.

For comprehensive online information on the above features, just right-click on your desktop, click **Properties**, select the tab you want help for, then click the **Help** button.

ATI's RADEON and RAGE 128 PRO accelerator chips provide advanced 3D support and accelerated 2D graphics. Games and software applications that support the RADEON and RAGE 128 PRO — including Direct3D applications and OpenGL — run with fluid motion and in brilliant color.

ALL-IN-WONDER is a part of ATI's legendary series of graphics accelerators. Your existing 2D games and applications will snap to life with 128-bit acceleration and faster, more vibrant colors.

You can use your ALL-IN-WONDER card to connect your computer to a television. This feature is ideal for playing games, giving presentations, watching movies, and browsing the Internet. (For more information, see *Attaching a TV to Your Card* on page 36.)

ALL-IN-WONDER also turns your PC into an intelligent TV with the following features:

- TV-On-Demand™
- Zoom-in
- Scheduled Viewing
- Channel Scanning
- Video capture
- Closed Captioning with "Hot Words" (North America only)
- Program transcript recording (North America only)
- TV magazine (North America only)
- Digital VCR with real-time video compression
- Interactive Program Guide
- dbx® stereo audio TV (because Europe uses different stereo TV standards, only the 32MB ALL-IN-WONDER 128, the 32MB ALL-IN-WONDER 128 PRO, and ALL-IN-WONDER RADEON provide stereo TV audio in Europe.) ALL-IN-WONDER does not provide stereo TV in Japan.

Digital flat panel support

ALL-IN-WONDER RADEON's DVI-I (Digital Visual Interface Integrated) option supports digital flat panel displays.

See *page 16* for more information.

A/V IN

CATV

A/V OUT

VGA CONNECTOR FROM MONITOR

DVI-TO-VGA ADAPTER

System Requirements

Computer system	**ALL-IN-WONDER 128**, **ALL-IN-WONDER 128 PRO** (Pentium MMX, minimum) Pentium® II, Pentium® III, Celeron™, or compatible systems with PCI Local Bus or AGP bus slot. **ALL-IN-WONDER RADEON** Pentium® II, Pentium® III, AMD K6/Athlon, or compatible with AGP 2X or AGP 4X bus slot.
Expansion Slot	PCI cards use a PCI slot; AGP cards use an AGP slot.
Operating System	**ALL-IN-WONDER 128**, **ALL-IN-WONDER 128 PRO**, **ALL-IN-WONDER RADEON** Windows® 98, Windows® Me, Windows® 2000.
Monitor	VGA, supporting minimum 640x480 resolution. *A Plug-and-Play monitor that supports VESA's Display Channel specifications (DDC1 or DDC2b) is required to take advantage of the DDC1/DDC2b features.* The DVI-I interface on ALL-IN-WONDER RADEON can be used to attach a DVI display or an analog VGA monitor, using the supplied DVI-I-to-VGA adapter.

Other Sources of Information

If you need additional help or require information that is not included in this guide, see the following sources:

Online Help

If you require additional information, you can refer to the online help available under Windows® 98, Windows® Millennium Edition, or Windows® 2000 for more information about using ATI's enhanced drivers.

For information on your card's graphics features, double-click the ATI icon in the lower-right corner of your screen.

Online manual

Your ALL-IN-WONDER card comes with localized online manuals that describe the extensive features of your card.

To open the online manual

1   Insert the ATI INSTALLATION CD-ROM into your CD-ROM drive.

If Windows runs the ATI INSTALLATION CD-ROM automatically, proceed to step 5.

2   In the Windows® taskbar, click **Start**.

3   Click **Run...**.

4   Type the following: **D:\ATISETUP**
(or substitute your CD-ROM drive letter.)

5   Click the Online Manual icon.

ATI Multimedia Center Guide

The *ATI Multimedia Center User's Guide* that came with your card explains how to use the special features that the ATI Multimedia Center provides.

C H A P T E R 2

Installing the Hardware and Software
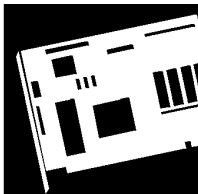
Installing your card consists of three, easy steps.

- **Placing the card in your computer**
- **Installing ATI's enhanced display drivers**
- **Attaching input and output cables and optional TV, VCR, camcorder, etc.**

This chapter explains how to place the card in your computer, how to install the software, and how to connect the input and output cables.

IN THIS CHAPTER...

⚠️

Turn off the power to your system, and discharge your body's static electric charge by touching a grounded surface — for example, the metal surface of the power supply — before performing any hardware procedure.

The manufacturer assumes no liability for any damage, caused directly or indirectly, by improper installation of any components by unauthorized service personnel. If you do not feel comfortable performing the installation, consult a qualified computer technician.

Damage to system components, the accelerator card, and injury to yourself may result if power is applied during installation.

Note

Before you install your ALL-IN-WONDER card, we recommend that you first uninstall the driver for your current video card, and reconfigure your operating system to use the standard display driver (VGA) supplied with your operating system. For more information about changing to the VGA driver, see your operating system documentation.

Installing the Hardware

Now that you have prepared your computer, you are ready to install your card. If you are not sure whether your card is PCI or AGP (ALL-IN-WONDER RADEON is AGP-only), compare the bottom edge of your card with the following illustration:

PCI

AGP 2x

Universal AGP 2x/4x
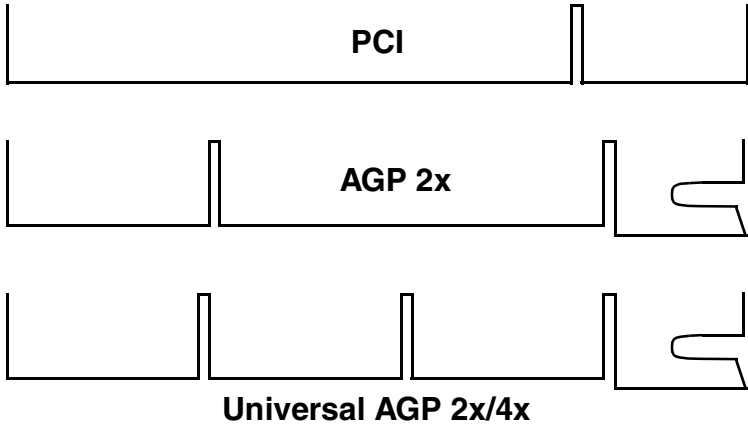
To install your card

1 **Power-off the computer and monitor**, then **disconnect the monitor cable** from the back of your computer.

VIDEO OUTPUT
CONNECTOR

MONITOR CABLE
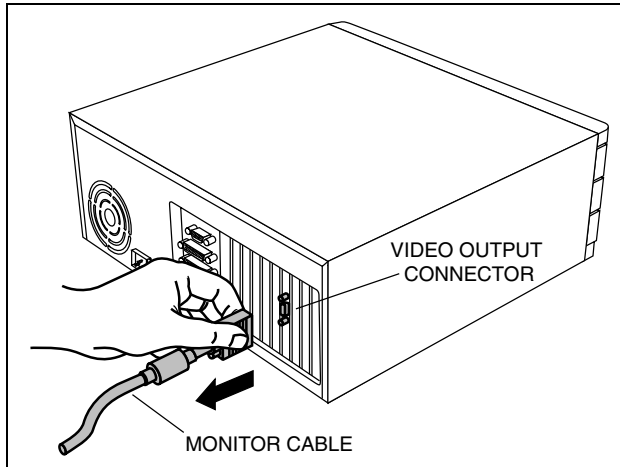
2 **Remove the computer cover**. If necessary, consult your computer system manual about removing the cover.

Remember to discharge your body's static electricity by touching the metal surface of the computer chassis.

POWER SUPPLY
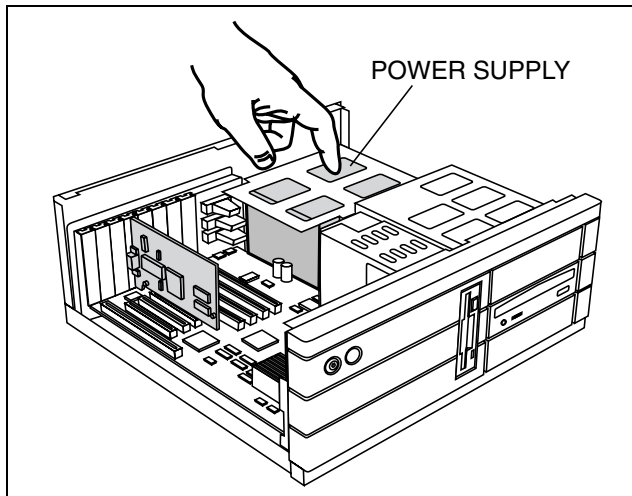
3 If you intend to run multiple monitors (see *Multiple monitor support* on page 14), proceed to step **4. Otherwise, remove any existing graphics card from your computer**.

If the old graphics card sticks, rock it gently from end to end.

Remember to save the screw.

SCREW
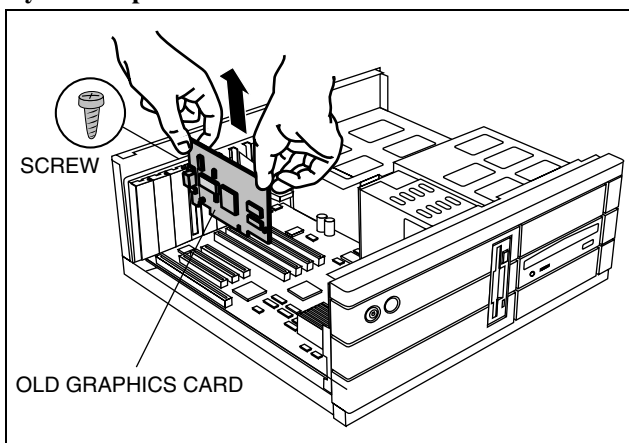
OLD GRAPHICS CARD

Or, if your computer has any **on-board graphics capability**, you may need to **disable** it on the motherboard. For more information, see your computer documentation.

Multiple monitor support

If you use multiple monitors, the ALL-IN-WONDER must be the primary graphics card. Normally, the system BIOS determines whether the AGP or PCI card will be the primary. For PCI cards, the system normally assigns priority to the card slots in order of their appearance. Please refer to your computer system manual for more information.

4 If necessary, remove the metal cover from the empty expansion slot that you select (PCI cards use a PCI slot; AGP cards use the AGP slot), then **align your new card with an empty expansion slot, and press it in firmly until fully seated**.

Grasp the new card by the top edge and carefully seat it firmly into the correct slot (PCI or AGP). Ensure that the metal contacts are <u>completely</u> pushed into the slot.

ALL-IN-WONDER

PCI EXPANSION SLOT   AGP EXPANSION SLOT
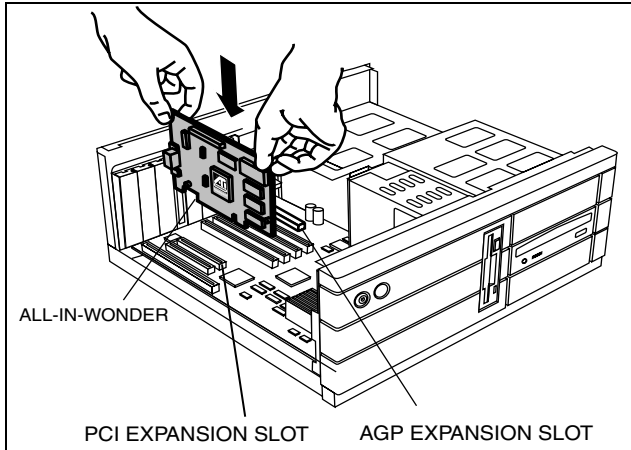
Note: AGP 4x/2x cards can be used in either AGP 4x or AGP 2x slots.

5 **Replace the screw to fasten the card in place**, and replace the computer cover.

SCREW

ATI 3D GRAPHICS CARD
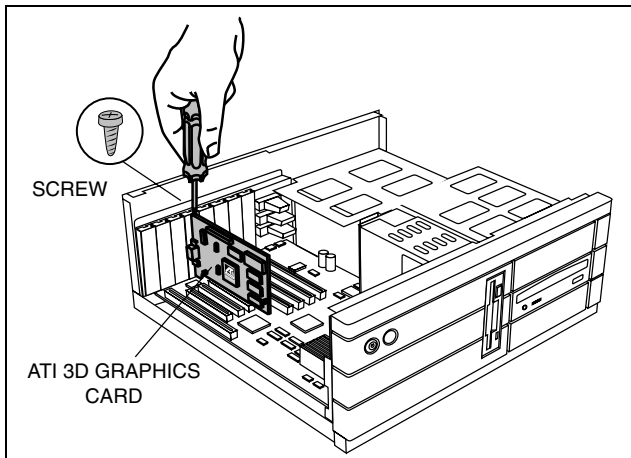
6   **Plug the monitor cable into your card** (if you are running multiple monitors, connect their cables to the appropriate connectors), then turn on the computer and monitor(s).

If your ALL-IN-WONDER RADEON card has a DVI-I connector, you can connect a flat panel to it, as shown below. To connect a VGA monitor to the DVI-I connector, plug the supplied DVI-I-to-VGA adapter into the DVI-I connector, then plug your monitor cable into the adapter.

Make sure your monitor cable is securely fastened.

DISPLAY CABLE

TO VGA MONITOR

TO FLAT PANEL DISPLAY
(DVI-READY CARDS ONLY)

DVI-I
CONNECTOR
ON CARD

VGA
CONNECTOR
FROM
MONITOR

DVI-I-TO-VGA
ADAPTER
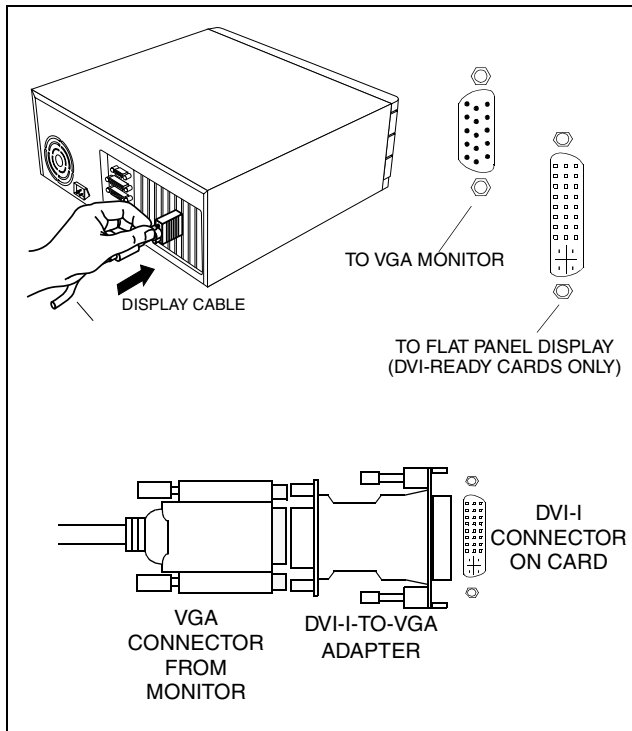
You are now ready to proceed with the installation of ATI's enhanced drivers. For detailed instructions, select your operating system from the list below:

• Windows® 98/Millennium Edition, see *Windows® "New Hardware Found"* on page 17.

• Windows® 2000, see *page 21.*

Windows® "New Hardware Found"

If you are running Windows® 98 or Millennium Edition (Me), new hardware may be detected after you restart your computer. Follow the step-by-step instructions below to allow Windows® to correctly identify your new hardware.

To identify new hardware in *Windows® 98 or Me*

1   Windows® 98/Me briefly displays the "New Hardware Found" dialog before launching the "Update Device Driver Wizard".

If the wizard does not appear, proceed directly to **Installing Enhanced Drivers for Windows® 98 or Windows® Me** on page 19.

2   Click **Next**.

3   Click **Finish**.

4   Insert your Windows® 98/Me CD-ROM into your CD-ROM drive.

5   Click **OK**.

6   Type the following:

Windows® 98   **D:\WIN98**
Windows® Me   **D:\WINME**
*(If **D** is not your CD-ROM drive, substitute **D** with the correct drive letter.)*

7   Click **OK**.

8   Click **Yes** to restart your computer.

You are now ready to install your ATI enhanced drivers. Proceed to **Installing Enhanced Drivers for Windows® 98 or Windows® Me** on page 19, and follow the step-by-step instructions to complete the installation.

After restarting your system, Windows® 98/Me will briefly display the "New Hardware Found" dialog. Depending on your new hardware, you will either be prompted to insert your Windows® 98/Me CD-ROM, or Windows® 98/Me will launch the "Add New Hardware Wizard".

If Windows® 98/Me automatically begins installing drivers for your new hardware, click **Yes** to restart your computer when prompted; then proceed to **Installing Enhanced Drivers for Windows® 98 or Windows® Me** on page 19.

To identify new hardware
using "*Add New Hardware Wizard*"

1   Windows® 98/Me launches the "Add New Hardware Wizard", which prompts you to search for the Standard PCI Graphics Adapter (VGA).

2   Click **Next** to continue.

3   Select **Search for the best driver for your device**.

4   Click **Next** to continue.

5   Click **Next** to start the driver search.

6   Click **Next** to install the Standard PCI Graphics Adapter (VGA).

7   Click **Finish**.

8   Click **Yes** to restart your computer.

You are now ready to install your ATI enhanced drivers. Proceed to **Installing Enhanced Drivers for Windows® 98 or Windows® Me** on page 19, and follow the step-by-step instructions to complete the installation.

Installing Enhanced Drivers for Windows® 98 or Windows® Me

With Windows® 98 or Me running on your computer, you need to install the enhanced ATI drivers to take advantage of your card's higher performance, resolutions, and special features. To ensure that you install the latest drivers, install the ATI enhanced drivers located on the CD-ROM shipped with your graphics accelerator card.

Notes	**Close all open applications** before installing your ATI software. - Before installing the ATI enhanced drivers, ensure that any previously-installed ATI display drivers have been **removed** from your system. To do this: **1**. In **My Computer**, double-click **Control Panel**, then double-click **Add/Remove Programs**. **2**. Click **ATI Display Driver**, then click **Add/Remove**. - Always use the **latest version** of the ATI Installation CD-ROM to install ATI display drivers and multimedia software. The last three digits of the CD part number represent the version — a higher number indicates a later version. - All ATI Installation CD-ROMs include a complete set of display drivers and multimedia software.

To install the ATI enhanced drivers
for Windows® 98 or Windows® Me

1   Insert the ATI INSTALLATION CD-ROM into your
CD-ROM drive.

*If Windows® runs the CD-ROM automatically, proceed to
step 6.*

2   Click **Start**.

3   Select **Run**.

4   Type the following:

D:\ATISETUP

*(If **D** is not your CD-ROM drive, substitute **D** with the
correct drive letter.)*

5   Click **OK**.

6   Click **ATI Easy Install** to begin the Installation Wizard.

7   Click **Next**.

8   Click **Yes** to accept the license agreement.

9   Follow the Wizard's on-screen instructions to complete the
installation.

*The **Express** installation option is recommended. If your
ATI product includes a multimedia component, the software
for that component will automatically be installed, along
with the ATI enhanced drivers, by selecting this option.*

*The **Custom** installation option can be used to specify
which components are installed, or the location in which
the software is installed.*

Installing Enhanced Drivers for Windows® 2000

With Windows® 2000 running on your computer, you need to install the enhanced ATI drivers to take advantage of your card's higher performance, resolutions, and special features. To ensure that you install the latest drivers, install the ATI enhanced drivers located on the CD-ROM shipped with your graphics accelerator card.

Notes	- You need administrator privileges to install drivers in Windows® 2000; refer to your system documentation. **Close all open applications** before installing your ATI software. - Before installing the ATI enhanced drivers, ensure that any previously-installed ATI display drivers have been **removed** from your system. To do this: **1**. In **My Computer**, double-click **Control Panel**, then double-click **Add/Remove Programs**. **2**. Click **ATI Display Driver**, then click **Add/Remove**. - Always use the **latest version** of the ATI Installation CD-ROM to install ATI display drivers and multimedia software. The last three digits of the CD part number represent the version — a higher number indicates a later version. - All ATI Installation CD-ROMs include a complete set of display drivers and multimedia software.

To identify new hardware in Windows® 2000

After restarting your system, Windows® 2000 briefly displays the "New Hardware Found" dialog. Depending upon your new hardware, Windows® 2000 either automatically installs its own bundled drivers, or it launches the "Add New Hardware Wizard".

If Windows® 2000 automatically installs drivers for your new hardware, proceed to *To install the ATI enhanced drivers for Windows® 2000* on page 23.

If Windows® 2000 does not have a driver available, when the "Found New Hardware Wizard" window appears, click CANCEL, and proceed to *To install the ATI enhanced drivers for Windows® 2000* on page 23.

To install the ATI enhanced drivers
for Windows® 2000

1 Insert the ATI INSTALLATION CD-ROM into your CD-ROM drive.
If Windows® runs the CD-ROM automatically, proceed to Step 6.

2 Click **Start**.

3 Click **Run**.

4 Type the following:
D:\ATISETUP
*(If **D** is not your CD-ROM drive, substitute **D** with the correct drive letter.)*

5 Click **OK**.

6 Click **ATI Easy Install** to start the Installation Wizard.

7 Follow the Wizard's on-screen instructions to complete the installation.

8 When the **Setup Complete** screen appears, click **Yes** to restart your computer, remove the ATI INSTALLATION CD-ROM, then click **Finish**.

The first time you restart your computer, more drivers will automatically be installed.

*For correct resolution and refresh rate operation, you need to select a **display device**. You should also change the **color palette** from 256 colors (the default) to a higher number of colors. ATI recommends at least "High Color (16-bit)" for best performance with its multimedia applications.*

| *Note* | Your ALL-IN-WONDER card must be the primary display (see *Multiple monitor support on page 14*) for correct operation of TV and video functions. |

To increase the number of colors

1   Right-click on a clear area of your desktop, then click
Properties.

2   Click **Settings**.

*If you are using multiple monitors, click the monitor icon
whose color depth you want to change. If you click a
secondary monitor and **Extend my Windows desktop onto
this monitor** is not checked, you cannot change that
monitor's settings.*

Each monitor has its own color settings.

3   In the **Colors** box, select **High Color (16 bit)**, **True Color
(24 bit)** or **True Color (32 bit)**.

*Your type of monitor and video adapter determine the
maximum number of colors.*

The RAGE 128 and RADEON display drivers on your ATI
Installation CD-ROM are the latest and fastest available, but at
ATI, we are constantly improving our products, so check the
ATI web site at **www.ati.com** for newer software.

1   Click **North America** or **Europe**.

2   Click **Drivers / Updates**, then click **Retail Generic -
Supported**.

Drivers downloaded from the ATI website:

•   Double-click the self-extracting executable file to start the
installation.

Note	Windows will automatically reboot your system after the drivers are installed.

Starting the ATI Multimedia Center

From LaunchPad. The LaunchPad provides a convenient way to start all your Multimedia Center features—just click the one you want. LaunchPad opens automatically when you start your computer, or if you prefer, you can right-click LaunchPad, and uncheck **Load on Startup** in the drop-down menu to disable this feature.

From Windows® taskbar.

1   In the Windows taskbar, click **Start**.

2   Point at **Programs ▶**.

3   Point at **ATI Multimedia Center ▶**.

4   Click **TV**, **DVD**, **Video CD**, **CD Audio**, or **File Player**.

Note	The first time you launch TV, you must complete the Initialization Wizard. After that, the Wizard will not run unless you want to re-run it.
	The Initialization Wizard guides you through setting up TV channels, Parental Control, Sound, and TV-on-Demand.

For information on the ATI Multimedia Center, see the online help.

Input and Output Adapters

Your ALL-IN-WONDER uses input and output adapters that let you connect audio and video devices to the card. You can use these adapters to:

• Connect a VCR, laserdisc player, or camcorder, and watch movies on your PC.

• Connect your camcorder and capture video for use in presentations, Web pages, or use third-party videoconferencing software.

• Connect your big-screen TV, and share the PC experience with a group of people, or play games on your big-screen TV.

• Attach a VCR to the video output and record presentations, games, internet, etc.

Note	• To hear sound when you use your ALL-IN-WONDER card's TV feature, ensure that your card is connected to the **line-in** connector of your sound card: see *page 29*. • For information on the CD audio connectors see *page 51.*
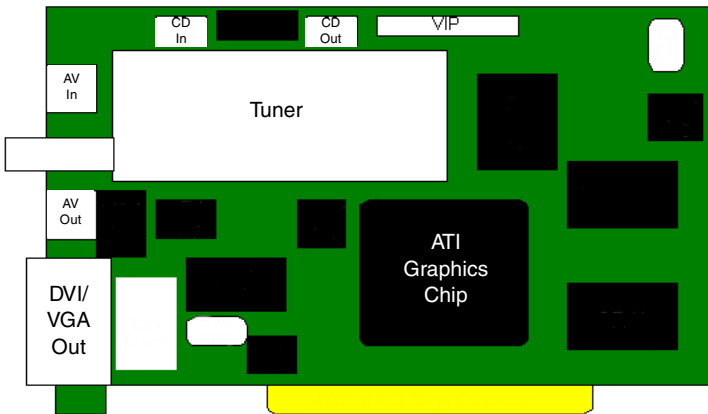
ALL-IN-WONDER Card

Notes

Please note that the ALL-IN-WONDER cards detect copy-protected input video sources, and will refuse to capture video from such sources. Many VHS tapes and DVD discs are copy-protected, which protects them from being copied onto your computer.

DVD audio output The ALL-IN-WONDER cards support Dolby ProLogic™ output for connection to a surround-sound system through the standard stereo output connection from your sound card. Only ALL-IN-WONDER RADEON supports S/PDIF digital audio output at this time.

To watch movies on your PC or capture video from your VCR, camcorder, or laserdisc player

Use the ATI input adapter to connect a VCR, camcorder, or laserdisc player to your ALL-IN-WONDER card, as shown.

The audio and video **output** connectors on your VCR, camcorder, or laserdisc player will be similar to these. Use composite video out **or** S-video out. S-Video will provide better results.

Cable with S-Video plug at each end.

← *OR* →

Cables with RCA plugs at each end, available separately from a consumer electronics dealer.

S-VIDEO OUT   **COMP. VIDEO OUT**   **L. AUDIO OUT**   **R. AUDIO OUT**

S ◄┄ ◄┄   **L** ◄ ◄ **R**

ATI INPUT ADAPTER
(Enlarged here for clarity)

A/V IN

CATV

A/V OUT
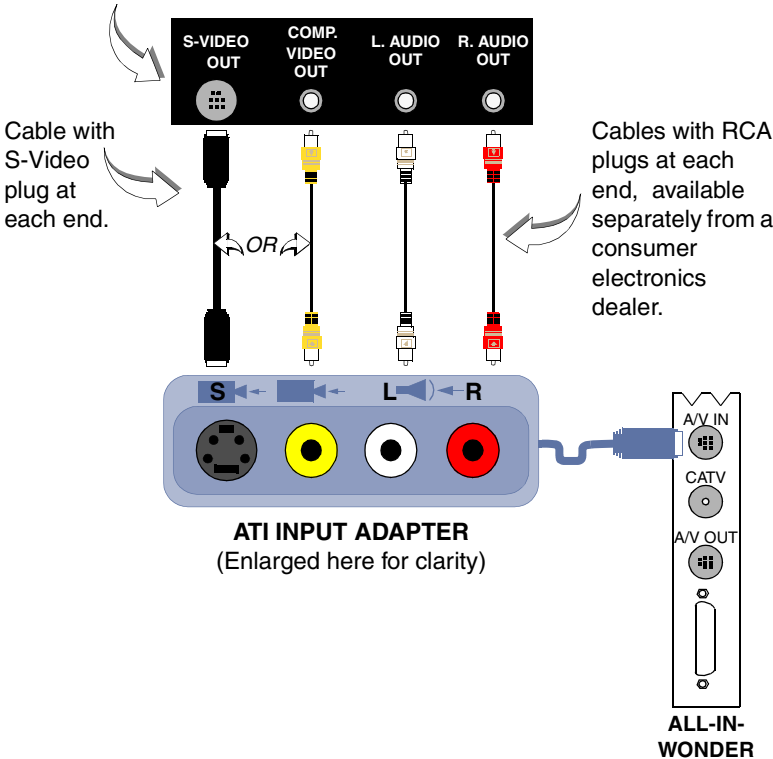
ALL-IN-WONDER

To display your PC output on TV
and record your PC output on videotape
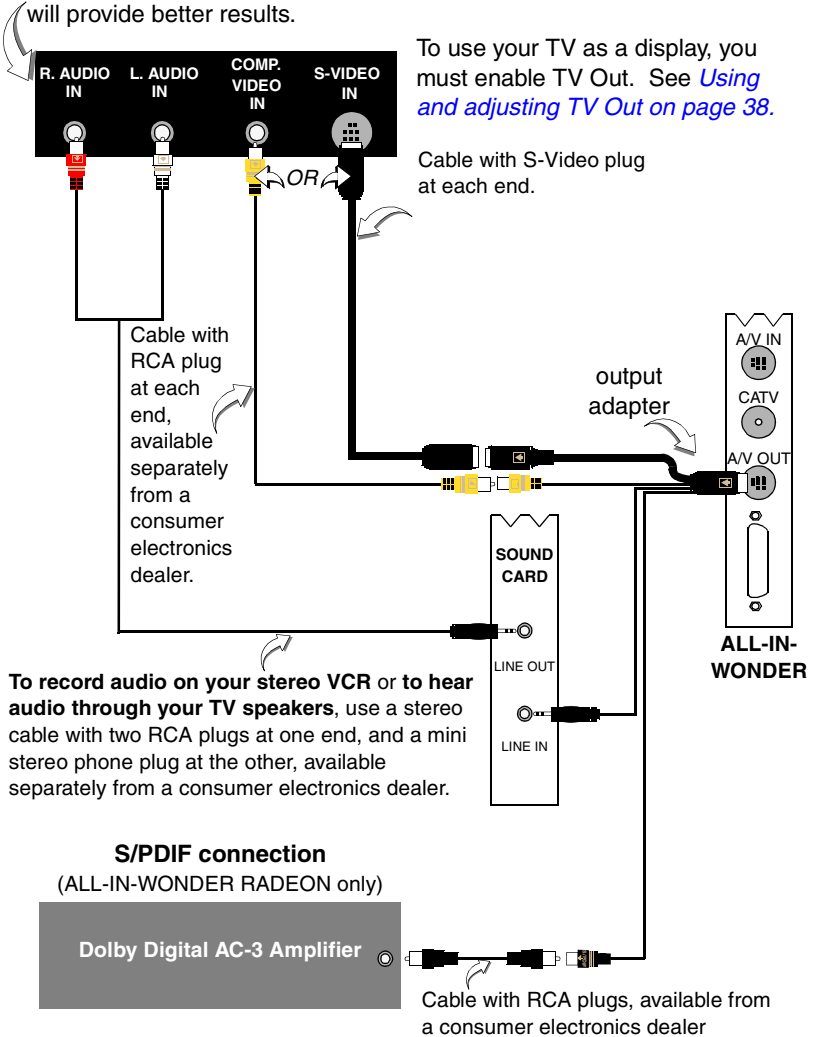
Use the output adapter to connect a TV, camcorder, or VCR to your ALL-IN-WONDER card, as shown.

The audio and video **input** connectors on your TV, camcorder, or VCR will be similar to these. Use COMPOSITE VIDEO IN **or** S-VIDEO IN. S-Video will provide better results.

R. AUDIO
IN

L. AUDIO
IN

COMP.
VIDEO
IN

S-VIDEO
IN

To use your TV as a display, you must enable TV Out. See *Using and adjusting TV Out on page 38.*

Cable with S-Video plug at each end.

OR

Cable with RCA plug at each end, available separately from a consumer electronics dealer.

output adapter

A/V IN

CATV

A/V OUT

ALL-IN-WONDER

SOUND
CARD

LINE OUT

LINE IN

To record audio on your stereo VCR or **to hear audio through your TV speakers**, use a stereo cable with two RCA plugs at one end, and a mini stereo phone plug at the other, available separately from a consumer electronics dealer.

S/PDIF connection
(ALL-IN-WONDER RADEON only)

Dolby Digital AC-3 Amplifier

Cable with RCA plugs, available from a consumer electronics dealer

Windows® Volume Control

For correct audio performance, your sound card's line input must be active. To display the Line Input setting in the Windows ® Volume Control panel:

1   Right-click the speaker icon 🔊 in the Taskbar (usually in the lower-right corner of your screen).

2   Click **Open Volume Controls**.

3   If the Line-In volume slider is not visible, click **Options**, then click **Properties**.

4   Click the **Line-In** volume control checkbox, then click **OK**.

   •If the **Mute** checkbox is checked, click it to cancel muting.

> If the speaker icon is not in your Taskbar, do the following:
> - In the Windows taskbar, click **Start**, point to **Settings**, then click **Control Panel**.
> - Double-click **Multimedia**.
> - In the **Audio** tab, check **Show volume control on Taskbar**.

To select the sound card connector for TV audio input

The sound card connector determines which mixer slider is controlled by the ATI Multimedia Center's volume slider.

1   Click the Setup button in the TV Player control panel, then click the **Display** tab.

2   Click the **Initialization Wizard** button, then click the **Next** button twice to open the TV Sound Initialization Wizard.

3   Click the audio input that matches the connection between your ATI card and your sound card. If you are not sure how it is connected, click each source (CD Audio, Line-In, etc.), and listen for the sound.

TV reception tips

- In the TV Tuner tab, ensure that you click the **correct setting for cable or antenna**.

- For the best indoor antenna reception, use an **amplified** model, and move it as **far away from your monitor** as possible.

- If you experience problems with cable input, a signal amplifier may improve reception.

CHAPTER 3

Using Your
ALL-IN-WONDER

For comprehensive information on ALL-IN-WONDER's multimedia features, please see the *Using Your ATI Multimedia Center* User's Guide that came with your card.

For correct operation of your card's multimedia features, ALL-IN-WONDER must be your computer's primary graphics card. For more information, see *Multiple monitor support* on page 14.
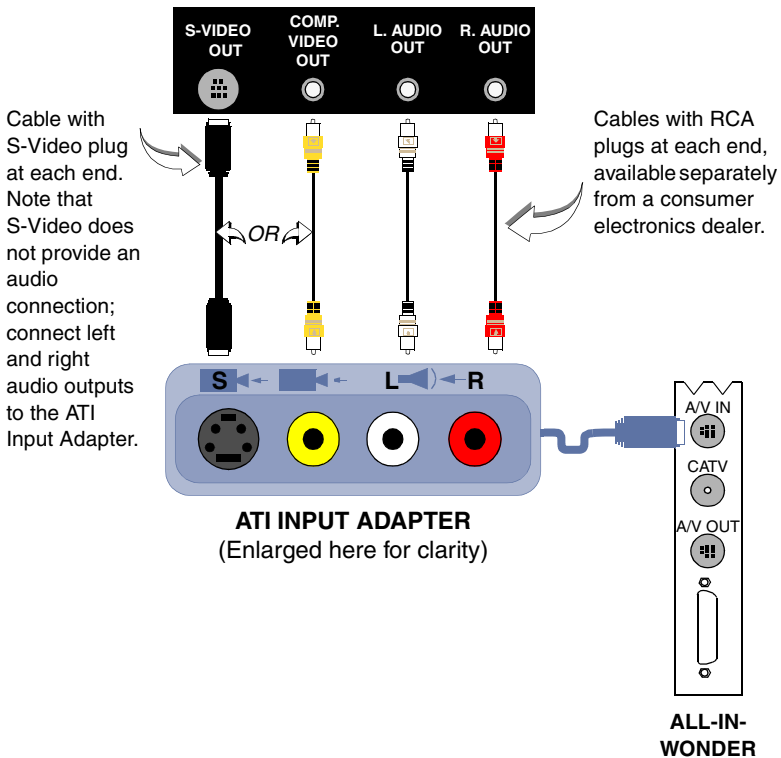
.
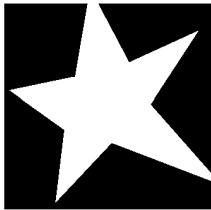
IN THIS CHAPTER...

- **Connecting your PC to a video source** on page 34
- **Attaching a TV to Your Card** on page 36
- **Using SCART connectors for European televisions** on page 38

Connecting your PC to a video source

To connect your computer to a VCR or camcorder, attach a connector cable from the VCR or camcorder to the ATI Input Adapter (see *page 35*). Most VCRs and camcorders have a Composite video output, also referred to as a phono jack or RCA output. A growing number of VCRs and camcorders have another type of video output called S-Video, which provides a higher quality display than Composite video.

To connect a VCR or camcorder to your ALL-IN-WONDER

1   Turn off your computer and your VCR or camcorder.

2   Ensure your graphics card is installed correctly.

3   Determine if your VCR or camcorder has an S-Video or Composite video connection.

4   Looking at the back of your computer, locate your graphics card. Using the ATI Input Adapter, attach one end of the cable to your graphics card and the other to your VCR or camcorder.

5   Turn on your computer and your VCR or camcorder.

S-VIDEO OUT   **COMP. VIDEO OUT**   **L. AUDIO OUT**   **R. AUDIO OUT**

Cable with S-Video plug at each end. Note that S-Video does not provide an audio connection; connect left and right audio outputs to the ATI Input Adapter.

OR

Cables with RCA plugs at each end, available separately from a consumer electronics dealer.

S   **L** ◀ **R**

ATI INPUT ADAPTER
(Enlarged here for clarity)

A/V IN

CATV

A/V OUT

ALL-IN-WONDER

Attaching a TV to Your Card

Using your ALL-IN-WONDER's Composite or S-Video output, you can connect a television set as your computer's display. You can use your card to do the following:

- View computer output directly on your television. Depending upon your television, you can choose NTSC or PAL formats.

- Display images on both the TV and VGA monitor simultaneously.

- Provide a big-screen experience for entertainment PCs that is ideal for playing games, giving presentations, watching movies, and browsing the Internet.

- Record videotapes of your computer's display.

Note	DVI digital flat panel and television display cannot be used simultaneously. If you are recording a videotape, you will need a television monitor to view while you record.

To connect your graphics card to a television

- You must attach a TV before enabling TV output

- In order to record audio on your VCR or hear audio through your TV speakers, you must connect the audio cables (see *page 29*).

- If your television has cable input only, which is the case for older units, you can connect your graphics card to your television using your VCR or an RF modulator that accepts audio input. RF modulators are available at most consumer electronics dealers. Connect the ALL-IN-WONDER's audio output to the RF modulator's audio input.

1 Turn off your computer and your television.

2 Determine if your television has an S-Video connection or an RCA video-in connection.

3 Looking at the back of your computer, locate your graphics card.

4 Connect the supplied output cable adapter to the A/V OUT connector on the card.

5   Using a cable with either S-Video or RCA connectors, attach one end of the cable to the output cable adapter and the other to your television.

6   Turn on your computer and your television.

If there is no display, you may need to enable the television output capability; see Using and adjusting TV Out on page 38.

For detailed cabling diagrams and audio connections, see **Input and Output Adapters** *on page 26.*

If you have a television connected to your VCR, you can use the television as your computer's display. For information about connecting a television to your VCR, see the documentation that came with your VCR.

Note	If you have a television connected to a VCR that is conected to the ALL-IN-WONDER's A/V OUT, and you use the television as your computer's display, copy-protected DVD movies may appear alternately bright and dim.

IMPORTANT INFORMATION
for European Customers

Some PC monitors in Europe **cannot** be used simultaneously with television display. When you enable television display in Europe, the refresh rate for the monitor and television is set to 50Hz. Some monitors may not support this refresh rate and could be damaged.

*   Please check the documentation supplied with your monitor to see if your monitor supports a refresh rate of 50Hz.
   **If your monitor does not support 50 Hz (or if you are not sure), then turn off your monitor before turning on your computer when using your television as a display.**

For information on disabling television display, see *To enable and disable the television display on page 38*.

Some televisions in Europe may use an SCART connection. If you use SCART, please read *Using SCART connectors for European televisions on page 38* before attempting to connect your PC to your television.

Using SCART connectors for European televisions
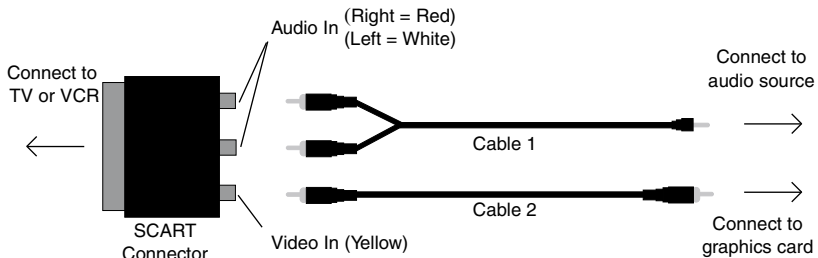
Using an SCART connector with a Composite cable

The SCART connector supports only the Composite video format, which is the most common type. The above illustration shows how to connect to an SCART connector with a Composite cable.

If your television supports S-Video input, you should use an S-Video cable (available in most consumer electronics stores) to view your PC on a television. An S-Video connection produces a higher quality display than Composite video.

Using and adjusting TV Out

To enable and disable the television display

1 Start Windows®.

2 Click **Start**.

3 Point to **Settings**, then click **Control Panel**.

4 Double-click **Display**.

5 Click the **ATI Displays** tab.

*Windows® 98 users click the **Advanced…** button, then click the **ATI Displays** tab.*

6 Click the green **enable/disable** button next to the word "TV" to enable/disable television display.

7 Click **OK** or **Apply** to save the changes you have made.

*For information about how to use television display and the ATI Displays Properties page, click the **Help** button.*

Starting Windows® with television display enabled

The television screen may become scrambled temporarily during the initial Windows® logo display. This is only a temporary effect, and your television screen will be restored within a few seconds.

During start up, your TV Out graphics card will go through a sequence of mode settings, during which your television display will remain blank. This process takes only a few seconds and helps program the television display.

Using a monitor vs. using the television display

Using your television for your computer's display is ideal for playing games, giving presentations, watching movies, and browsing the Internet. The display on your monitor may change or look squashed. This occurs because the display adjusts to fit the dimensions of your television. To correct the monitor's display, use the controls on the monitor to adjust the display size and position.

Older monitors and large, speciality monitors may not work with television display enabled. If you experience problems when television display is enabled, disable television display to restore your monitor's display.

Adjusting the monitor display

The size of the display on your monitor may be smaller and not perfectly centered when you have television display enabled. These effects are caused by the changes required to provide a proper display on the television.

Use the controls available on the Adjustments tab on the Monitor Properties page (click the **Monitor** button on the ATI Displays page) to adjust the display on your monitor only. Click the **Television** button to adjust the television display only.

Viewing text on television

Due to the different technology used in the manufacturing of televisions and PC monitors, standard PC text may be unreadable on your television. You can compensate for this by using larger fonts.

To use larger display fonts

1   Start Windows®.

2   Click **Start**.

3   Point to **Settings**, then click **Control Panel**.

4   Double-click **Display**.

5   Click the **Settings** tab.

6   In the **Font Size** box, select the size you want your displayed fonts to be.

    *Windows® 98 users click the **Advanced…** button then select your font size.*

7   To customize the size of displayed fonts, select **Custom** or **Other**.

8   Click the **OK** button, then click the **Close** button. Click the **Yes** button to restart your computer and use your new settings.

Reducing edge distortion

When using a television for your PC's display, you may see some edge distortion on the left and right side of your television screen. This effect depends on your television and the PC application you are running. To reduce edge distortion, you can increase the horizontal size.

To increase the horizontal size

1   Start Windows®.

2   Click **Start**.

3   Point to **Settings**, then click **Control Panel**.

4   Double-click **Display**.

5   Click the **ATI Displays** tab.

    *Windows® 98 users click the **Advanced…** button, then click the **ATI Displays** tab.*

6   Click the **TV** button.

7   Click the **Adjustments** tab.

8   Click the plus (**+**) button under Horizontal Screen to increase the horizontal size of the television display.

9   Click **OK** or **Apply** to save the changes you have made.

You can also reduce edge distortion by reducing the brightness.

To change the brightness

1   Start Windows®.

2   Click **Start**.

3   Point to **Settings**, then click **Control Panel**.

4   Double-click **Display**.

5   Click the **ATI Displays** tab.

    *Windows® 98 users click the **Advanced…** button, then click the **ATI Displays** tab.*

6   Click the **TV** button.

7   Drag the **Brightness slider** to the left to decrease the brightness.

8   Click **OK** or **Apply** to save the changes you have made.

Changing display configurations

If you move your computer to a place where you are using television display only, make sure that you have the television display feature enabled first; see *To enable and disable the television display* on page 38.

Using games and applications

Some older games and applications may program the graphics card directly to run under a specific display mode. This may cause your television display to turn off automatically or become scrambled (the PC monitor will not be affected). Your television display will be restored once you exit the game or if you restart your system.

CHAPTER 4

Reference

This chapter contains troubleshooting tips for your ALL-IN-WONDER card.
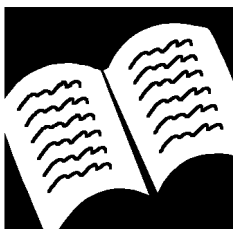
IN THIS CHAPTER...

Troubleshooting

The following troubleshooting tips may help you if you experience problems. Contact your dealer for more advanced troubleshooting information.

Basic troubleshooting tips

- Check that the **card is seated properly** in its expansion slot. If the problem still exists, try a different PCI expansion slot.

- Ensure that the **monitor cable is securely fastened** to the card.

- Make sure that the **monitor and computer are plugged in** and **receiving power**.

- If necessary, **disable any built-in graphics capabilities** on your mother board. For more information, consult your computer's manual or manufacturer. (Note: some manufacturers do not allow the built-in graphics to be disabled or to become the secondary display.)

- Make sure that you selected the **appropriate monitor** when you installed your enhanced driver.

- If you use an indoor antenna, you will get the best results with an **amplified** model. Place it as **far away from the PC monitor** as possible, to avoid interference.

- Splitting the cable or antenna input can reduce the signal quality. For the best reception, **connect the cable or antenna directly to your card**.

- Make sure that your **audio card's line input is active** (see **Windows® Volume Control** on page 30).

Windows® 98 / Windows® ME troubleshooting tips

For Windows® 98 / Windows® ME troubleshooting tips, right-click the ATI icon in the taskbar, and select **Troubleshooting**.

If you have problems during start-up, start your computer in Safe Mode.

To load Windows® 98 / Windows® ME in Safe Mode

1   Turn on your computer.

2   In Windows® 98, or Windows® ME, press and hold the **CTRL** key until the Windows Startup Menu appears, then select the number for Safe Mode, and press **Enter** (on some computers, you can press F8 instead of CTRL to display the Windows® Startup Menu). In Safe Mode, open the Device Manager and check for duplicate display adapter and monitor entries if you are using only one graphics card.

- Disable any programs that start automatically when you start Windows® 98 / Windows® ME.

- Check that you have the correct monitor and display driver selected in the Display Properties. For more information, click Help in the Start menu.

- Check for the existence of memory managers and ensure they are configured properly.

- Refer to additional information in the Windows® 98 / Windows® ME README file located in the root directory on the ATI Installation CD-ROM.

- For technical assistance, refer to your technical support documentation, or contact your vendor.

> **If you don't hear audio**, make sure that your audio card's line input is active (see *Windows® Volume Control on page 30*).

Audio and Video Troubleshooting

If you have problems with video or audio, try these suggestions.

Audio problems ...

No sound

Check your speakers:

• If you have external speakers, ensure that they are powered-on (POWER indicator light is on) and connected to the LINE-OUT or SPEAKER OUT connectors on your sound card.

Still no sound?

Play a .WAV sound:

1   Click **Start**, point at **Settings** ▶, select **Control Panel**, then double-click **Sounds**.

2   In the **Events** area, Click **Asterisk**, then click a .WAV file in the **Sound** area.

3   Click the Play button ▶ to preview the sound.

If you still do not hear any sound, open the Volume Control:

• Click **Start**, point at **Programs** ▶, point at **Accessories** ▶, point at **Entertainment** ▶, then select **Volume Control**. Or, right-click the speaker icon 🔊 (usually in the lower-right corner of your screen), then click **Open Volume Controls**.

> If the speaker icon is not in your Taskbar, do the following:
> • In the Windows Taskbar, click **Start**, point to **Settings**, then click **Control Panel**.
> • Double-click **Multimedia**.
> • In the **Audio** tab, check **Show volume control on the Taskbar**.

• Ensure that the **Volume Control** and the **Wave** channel are not muted or set very low.

When you hear sound from your speakers, you know they are working.

• If you still experience audio problems, check the audio connections to your ALL-IN-WONDER card.

No sound from TV

Ensure that the audio connection between your ALL-IN-WONDER card and your sound card is correct.

• For complete installation instructions, see .

output
adapter

A/V IN

CATV

A/V OUT

**ALL-IN-
WONDER**

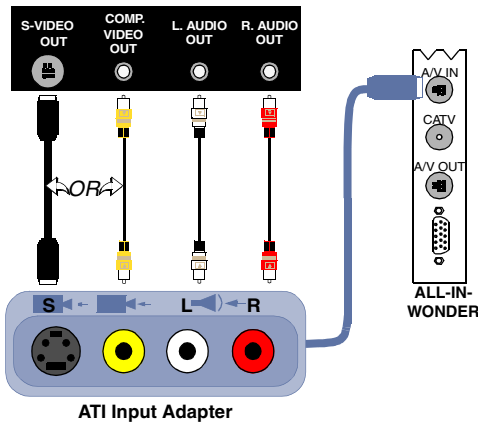**SOUND
CARD**

LINE IN
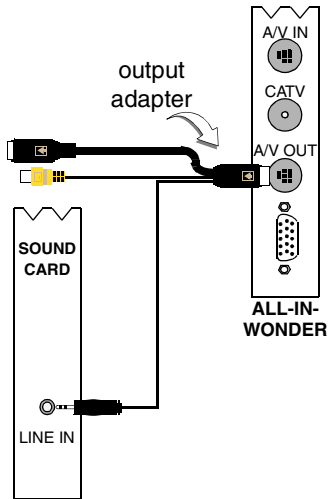
Can't capture sound

Check the Record mixer settings:

1   Click **Start**, point at **Programs** ▶, point at **Accessories** ▶, point at **Entertainment** ▶, then select **Volume Control**. Or, right-click the speaker icon 🔊 (usually in the lower-right corner of your screen), then click **Open Volume Controls**.

2   In the **Volume Control** menu, click **Options**, click **Properties**, click **Recording**, then click **OK**. The **Recording Control** opens.

3   Ensure that **Line** (or the Audio input you selected in the *Sound Initialization Wizard*) is checked, then click ✖ to close the dialog.

Can't capture sound when recording from a videotape.

Connect the VCR audio output to your PC:

• Left and right audio output from your VCR must be connected to your ALL-IN-WONDER card (note that S-Video does not provide an audio connection). For complete installation instructions, see .

No sound on the videotape when outputting to a VCR

Connect your PC audio to the VCR:

• Left and right audio output from your sound card must be connected to your VCR's audio inputs (note that S-Video does not provide an audio connection). For complete installation instructions, refer to the *ALL-IN-WONDER RADEON / ALL-IN-WONDER 128 PRO / ALL-IN-WONDER 128 Installation and Setup User's Guide*.
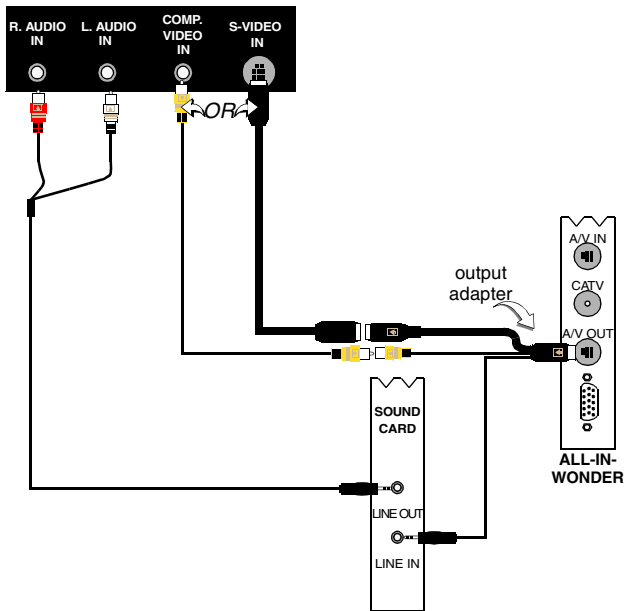
Video problems ...

Video is unstable or only black and white

Check that you are using the correct broadcast standard format:

- For proper operation, you must specify your country in the *TV Channels Initialization Wizard.*

- Check the quality of your incoming TV signal on another receiver; bad reception may be the cause.
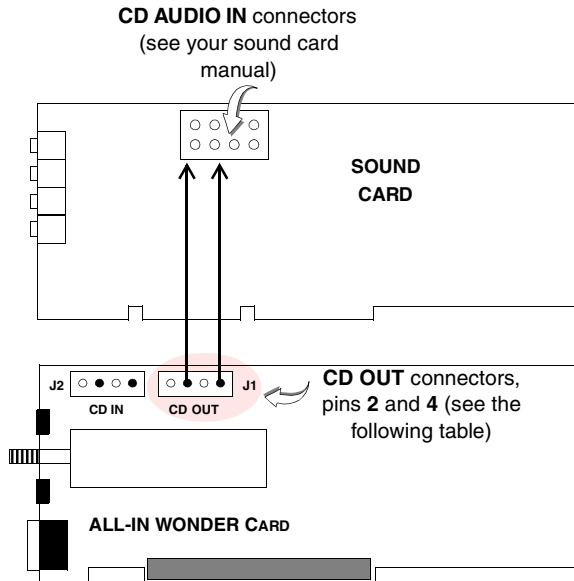
There is no video or audio

- Ensure that your cable or antenna is connected.

- Ensure that the video connector is set to the correct source.

- Check that the audio and video connectors are securely plugged into the correct jacks.

- Check that your video card is securely seated in its slot. Please refer to the user guide for the card location.

CD Audio Connectors

The following illustration shows the optional, internal CD audio connectors on your ALL-IN-WONDER card.

The CD connectors are provided for internal audio connection. The internal audio cabling (not included) must match your sound card.

CD AUDIO IN connectors (see your sound card manual)

SOUND CARD

J2   CD IN   CD OUT   J1

CD OUT connectors, pins **2** and **4** (see the following table)

ALL-IN WONDER CARD

This table lists the pin assignments for the CD audio connectors on your card.

ALL-IN-WONDER CARD	SIGNAL	PIN
J2	CD IN	Pin 1 - GND
J2	CD IN	Pin 2 - LEFT IN
J2	CD IN	Pin 3 - GND
J2	CD IN	Pin 4 - RIGHT IN
J1	CD OUT	Pin 1 - GND
J1	CD OUT	Pin 2 - LEFT OUT
J1	CD OUT	Pin 3 - GND
J1	CD OUT	Pin 4 - RIGHT OUT

To Remove the ATI Multimedia Center

1   In the Windows® taskbar, click **Start**.

2   Point to **Settings** ▶.

3   Click **Control Panel**.

4   Double-click **Add/Remove Programs**.

5   Select **ATI Multimedia Center** from the list.

6   Click **Add/Remove...**

7   Click **OK**.

Japanese Users Please Note ...

• Stereo TV and Secondary Audio Program (SAP) are not currently available in Japanese versions of ALL-IN-WONDER.

Compliance Information

FCC Compliance Information

The ALL-IN-WONDER family of cards complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and

- This device must accept any interference received, including interference that may cause undesired operation.

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 manufacturer's 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:

- Re-orient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment to 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.

- The use of shielded cables for connection of the monitor to the graphics card is required to ensure compliance with FCC regulations.

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

Industry Canada Compliance Statement

ICES-003 This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B Respecte toutes les exigences du Règlement sur le matérial brouiller du Canada.

CE Compliance Information

EMC Directive 89/336/EEC and Amendment 92/31/EEC, Class B Digital Device

EN 50081-1, Generic Emissions Standard for Residential, Commercial and Light Industrial Products

(EN 55022/CISPR 22, Limits and Methods of Measurement of Radio Interference Characteristics Information Technology Equipment) *Warning: This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.*

EN 50082-1, Generic Immunity Standard for Residential, Commercial and Light Industrial Products

(IEC 801-2, IEC 801-3, IEC 801-4)

Directive EMC 89/336/CEE et amendement 92/31/CEE, dispositif numérique de Classe B

EN 50081-1, Norme sur les émissions génériques pour les produits domestiques, commerciaux et industriels légers

(EN 55022/CISPR 22, Limites et méthodes de mesure des caractéristiques d'interférences radiophoniques, Matériel des technologies de l'information) *Mise en garde: ceci est un produit de Classe B. Il risque produire des interférences radiophoniques dans un environnement domestique auquel cas l'utilisateur peut se voir demandé de prendre des mesures adéquates.*

EN 50082-1, Norme sur l'immunité générique pour produits domestiques, commerciaux et industriels légers.

(CEI 801-2, CEI 801-3, CEI 801-4)

EMC Richtlinie 89/336/EEC und Änderung 92/31/EEC, Digitales Gerät der Klasse B

EN 50081-1, Allgemeiner Emissions-Standard für Haushalt- und kommerzielle Produkte sowie Erzeugnisse der Leichtindustrie

(EN 55022/CISPR 22, Beschränkungen und Verfahren der Messung von informationstechnischen Ausrüstungen mit Funkstörmerkmalen)

Warnung: Dies ist ein Erzeugnis der Klasse B. Dieses Erzeugnis kann Funkstörungen im Wohnbereich verursachen; in diesem Fall können entsprechende Maßnahmen seitens des Benutzers erforderlich sein.

EN 50082-1. Allgemeiner Unempfindlichkeits-Standard für Haushalt- und kommerzielle Produkte sowie Erzeugnisse der Leichtindustrie

(IEC 801-2, IEC 801-3, IEC 801-4)

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Safety instructions for TV tuner products

IMPORTANT SAFETY INSTRUCTIONS

- **Read Instructions** - All the safety and operating instructions should be read before the product is operated.
- **Retain Instructions** - The safety and operating instructions should be retained for future reference.
- **Heed Warnings** - All warnings on the product and the operating instructions should be adhered to.
- **Compatibility** - This option card is for use only with IBM AT or compatible UL Listed personal computers that have Installation Instructions detailing user installation of card cage accessories.
- **Grounding** - CAUTION: For Continued Protection Against Risk of Electric Shock and Fire, This Accessory Should Be Installed Only In Products Equipped With A Three-wire Grounding Plug, A Plug Having a third (Grounding) Pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- All option card securement pins shall be completely tightened as to provide continuous bonding between the option card and the PC chassis.
- **Outdoor Antenna Grounding** - Since an outdoor antenna or cable system is connected to the product, be sure that the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to the antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection of grounding electrodes, and requirements for the grounding electrode.
- **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet, and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other light or power circuits, or where it can fall into such power lines or circuits.
- When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them may be fatal.
- **Note to CATV System Installer** - This reminder is provided to call the CATV systems installer's attention to Section 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.