VideOh! DVD AVC-2210

User's Guide

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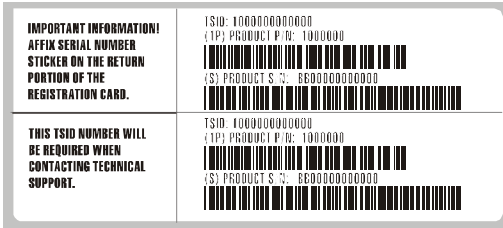
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Technical Support Identification (TSID) Number

- Before contacting Technical Support, you need your unique 12-digit TSID number. The TSID number identifies your product and support status.

- The TSID number is included on two white, bar-coded labels, like the example below. Affix your TSID label to the printed *Installation Guide*.

IMPORTANT INFORMATION! AFFIX SERIAL NUMBER STICKER ON THE RETURN PORTION OF THE REGISTRATION CARD.	TSID: 1000000000000 (1P) PRODUCT P/N: 1000000 (S) PRODUCT S/N: BB0000000000
THIS TSID NUMBER WILL BE REQUIRED WHEN CONTACTING TECHNICAL SUPPORT.	TSID: 1000000000000 (1P) PRODUCT P/N: 1000000 (S) PRODUCT S/N: BB0000000000

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- Search the Adaptec Support Knowledgebase (ASK) at ask.adaptec.com for articles, troubleshooting tips, and frequently asked questions for your product.

- For support via Email, submit your question to Adaptec's Technical Support Specialists at ask.adaptec.com.

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Milpitas, California 95035.

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Federal Communications Commission Radio Frequency Interference Statement

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

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 instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. However, if this equipment does cause interference to radio or television equipment 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 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/television technician for help.
■ Use a shielded and properly grounded I/O cable and power cable to ensure compliance of this unit to the specified limits of the rules.

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.

Adaptec, Inc.	AVC-2210
FC Tested to Comply With FCC Standards	
FOR HOME OR OFFICE USE	

European Union Compliance Statement

This Information Technology Equipment has been tested and found to comply with EMC Directive 89/336/EEC, as amended by 92/31/EEC and 93/68/EEC, in accordance with:

■ EN55022 (1998) Emissions

■ EN55024 (1998) Immunity:
  – EN61000-4-2 (1998) Electrostatic discharge: ±4 kV contact, ±8 kV air
  – EN61000-4-3 (1998) Radiated immunity
  – EN61000-4-4 (1995) Electrical fast transients/burst: ±1 kV AC, ±0.5 kV I/O
  – EN61000-4-5 (1995) Surges ±1 kV differential mode, ±2 kV common mode
  – EN61000-4-6 (1996) Conducted immunity: 3 V
  – EN61000-4-11 (1994) Supply dips and variation: 30% and 100%

In addition, all equipment requiring U.L. listing has been found to comply with EMC Directive 73/23/EEC as amended by 93/68/EEC in accordance with EN60950 with amendments A1, A2, A3, A4, A11.

Australian/New Zealand Compliance Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to the Australian/New Zealand standard AS/NZS 3548 set out by the Spectrum Management Agency.

Canadian Compliance Statement

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 matériel brouilleur du Canada.

Japanese Compliance (Voluntary Control Council Initiative)

This equipment complies to class B Information Technology equipment based on VCCI (Voluntary Control Council for Interface). This equipment is designed for home use but it may causes radio frequency interference problem if used too near to a television or radio. Please handle it correctly per this documentation.
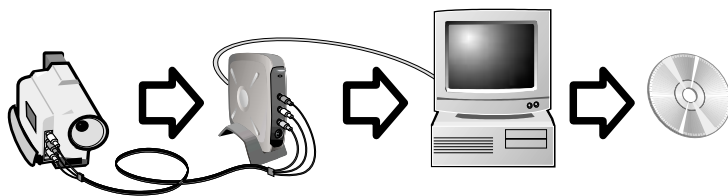
In this Guide

Introduction

Congratulations on the purchase of your Adaptec VideOh!™ DVD
AVC-2210. With your VideOh! DVD kit, you can convert your
analog videos into digital format and create your own Video CDs
(VCDs) and DVDs.

■ Capture your favorite video footage with your AVC-2210 and
the Sonic® MyDVD® software.

■ Organize and burn VCDs and DVDs with MyDVD. Add
backgrounds to your videos, and menus for easy navigation.

■ Edit your videos with the digital video editing tool integrated
with MyDVD, if you want to add music, transitions, and titles
to your movies.

This *User's Guide* tells you how to set up your VideOh! DVD
hardware, and provides detailed instructions for installing and
using the VideOh! DVD software.

What's in the Package

Your Adaptec VideOh! DVD package includes:

- Adaptec AVC-2210 USB 2.0 MPEG-2 capture device

- A stand for the Adaptec AVC-2210

- 6-foot USB cable

- 6-foot RCA to RCA Audio/Video (A/V) cable

- External power adapter

- VideOh! Installation CD, including drivers and Sonic MyDVD software

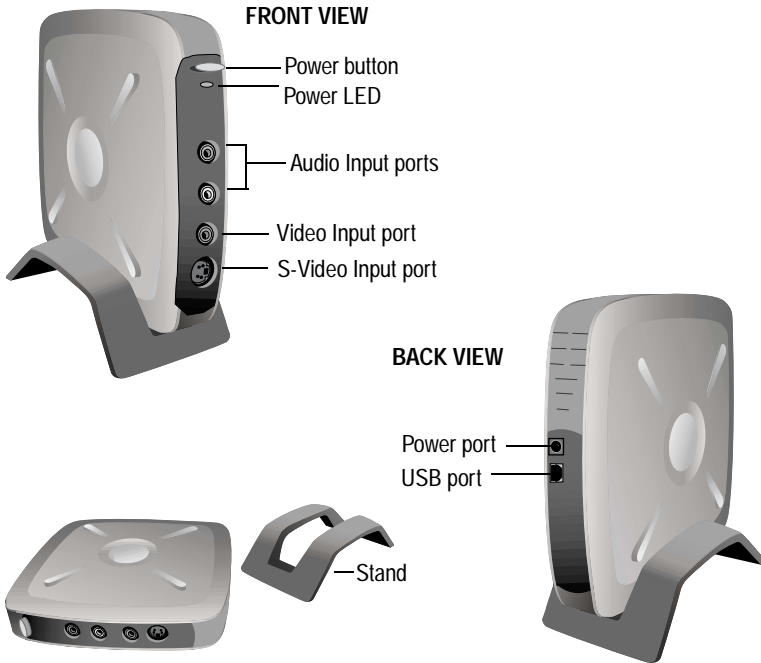- *VideOh! DVD AVC-2210 Getting Started* printed guide

System Requirements

To use your VideOh! DVD kit, you need a PC-compatible computer with:

- Intel Pentium III 600 MHz (or faster) processor

- Windows® 98SE, Windows Me®, Windows 2000®, or Windows XP®

- Available USB port (USB 2.0 recommended)

- 256 MB RAM

- 350 MB free disk space for applications

- 420 MB to 570 MB free disk space per 10 minutes of captured video (depending on the video quality setting you choose)

  See *Need Help Capturing Your Video?* on page 32 for more information on video quality settings.

- Sound card

- CD-ROM drive

- CD-Recorder or DVD-Recorder for output

- Video card and monitor that support 16-bit color at 1024 x 768 resolution (24/32-bit color and higher resolution recommended)

This is Your AVC-2210

FRONT VIEW

Power button
Power LED

Audio Input ports

Video Input port
S-Video Input port

BACK VIEW

Power port
USB port

Stand

You can also take your AVC-2210 out of its stand and lay it flat on your desk. Built-in rubber pads keep it in place when it's not in its stand.

Power LED Status

The LED on the front of the AVC-2210 lights up to indicate the status of operation. The following table indicates the status modes.
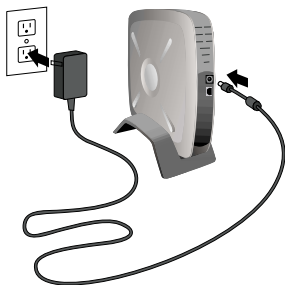
LED Color	Condition	Description
Off	-	Device is off
Orange	Steady	Device is on, firmware is loading, also indicates standby mode
Orange	Blinking	Error—for help, see *Need Help with Your AVC-2210? on page 28*
Green	Steady	Firmware succesfully loaded and ready for use
Green	Blinking	A/V data is being transferred

Plugging In Your AVC-2210
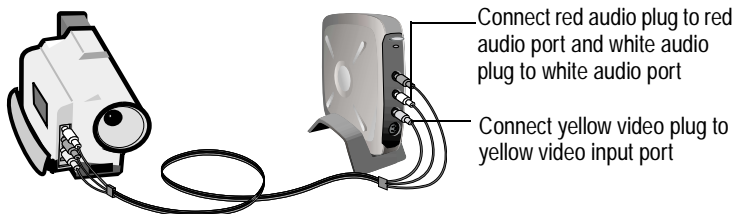
To set up your AVC-2210:

1   Connect the power adapter.

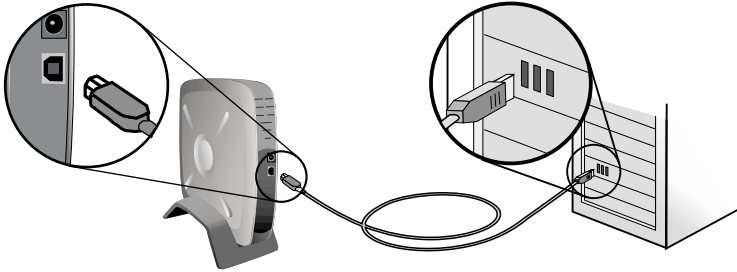   (See the figures on page 4 if you need help locating the ports on your AVC-2210.)

2   Connect your video device to your AVC-2210 using the included A/V cable. Your device may have a proprietary cable.

Connect red audio plug to red audio port and white audio plug to white audio port

Connect yellow video plug to yellow video input port

S-Video users only—Connect your S-Video cable (not included) to your analog video device using the S-Video port on your AVC-2210. You can use the audio plugs of the A/V cable included in your VideOh! DVD kit to connect to the Audio-L and Audio-R ports.

3 Turn on your computer if you haven't already done so, then connect the AVC-2210 to your computer using the provided USB 2.0 cable.

4 Insert the VideOh! Installation CD into your CD-ROM drive.

5 Turn on the AVC-2210 by pressing the Power button. The LED on the front of the AVC-2210 will light up orange when first powered on.

> **Note:** If the VideOh! DVD Software Installation screen appears, exit this screen until driver installation is complete.

Now you are ready to install the device drivers.

Installing the Drivers

Before you can begin capturing video, you must install the VideOh! DVD device drivers.

Installation is an easy two-step process. First you install the USB loader, then you install the device driver. Follow the complete set of installation instructions provided for your operating system to ensure that the driver is properly installed :

- For Windows XP, see .

- For Windows 2000, see .

- For Windows Me, see .

- For Windows 98SE, see .

Windows XP

Windows XP automatically detects your device and opens the Found New Hardware Wizard. To perform the installation, follow the instructions provided in this section.
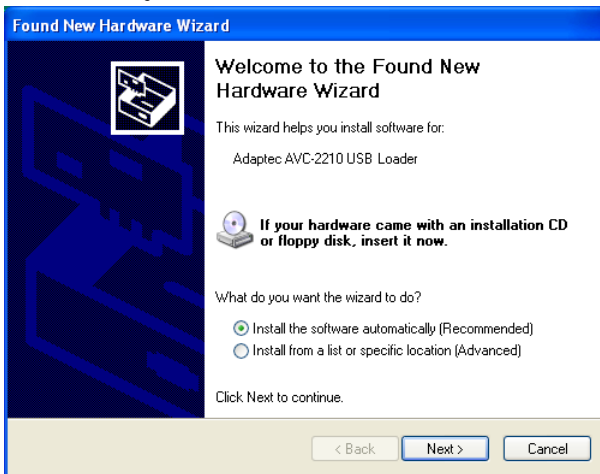

Note: Before installing the driver, make sure the VideOh! Installation CD is in your CD-ROM drive.

To install the driver:

1 In the Found New Hardware Wizard, select **Install the software automatically...**, then click **Next**.

2 If this window appears, click **Continue Anyway**.

![Note icon] **Note:** Adaptec drivers have been fully tested and certified to work with the AVC-2210 device.

Windows installs the driver.

3 Click **Finish** to complete the USB Loader installation.

4 From the Found New Hardware Wizard, repeat steps 1 and 2 to install the device drivers.

5 Click **Finish** to complete the installation.

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

System Settings Change

Windows has finished installing new devices. The software that supports your device requires that you restart your computer. You must restart your computer before the new settings will take effect.

Do you want to restart your computer now?

[Yes]   [No]

Note: If you plug your AVC-2210 into a USB 1.1 port, this message appears during driver installation:
A hi-speed USB device is plugged into a non-hi-speed USB hub.
This message indicates that your AVC-2210 will run at a reduced (USB 1.1) speed. To ensure maximum performance, plug your AVC-2210 into a USB 2.0 port. (For information on USB 2.0 adapters and hubs, go to the Adaptec Web site at www.adaptec.com.)

Note: To check if the driver is installed properly, you can follow the instructions provided in *Need Help Installing Your Device Drivers?* on page 28.

Windows 2000

Windows 2000 automatically detects your device and opens the Found New Hardware Wizard. To perform the installation, follow the instructions provided in this section.
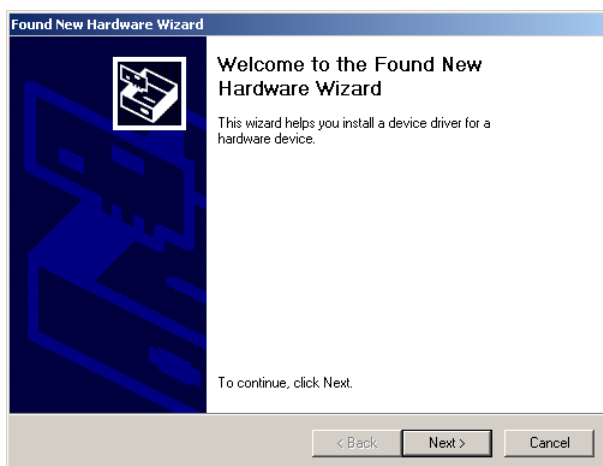
> **Note:** Before installing the driver, make sure the VideOh! Installation CD is in your CD-ROM drive.
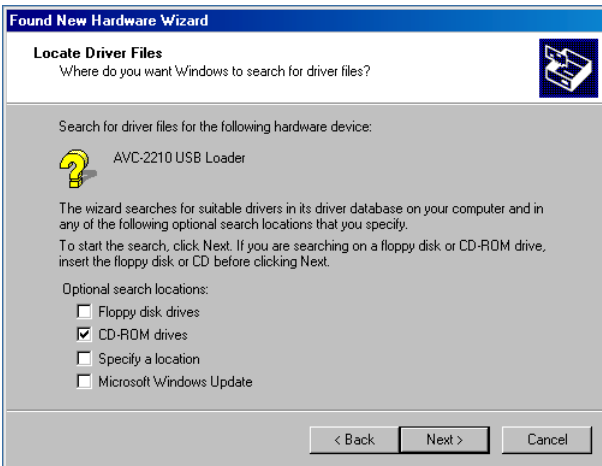
To install the drivers:

1 In the Found New Hardware Wizard, click **Next**.

2 Select **Search for a suitable driver...**, then click **Next**.
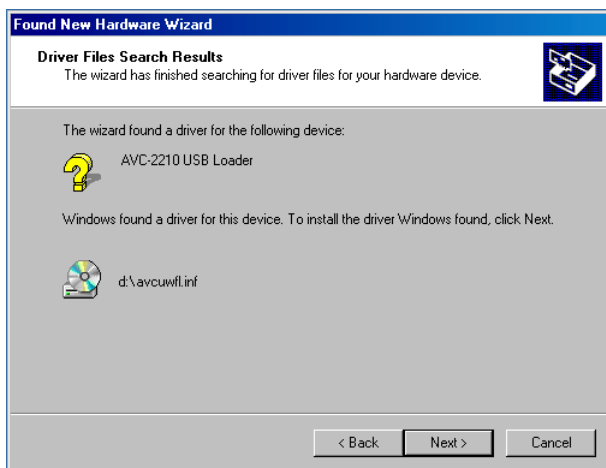

3 Select *only* **CD-ROM drives**, then click **Next**.

Windows locates a driver file.

4 Click **Next**.

⚠ **Note:** The drive letter for your CD-ROM may be different than the one shown in the example above.
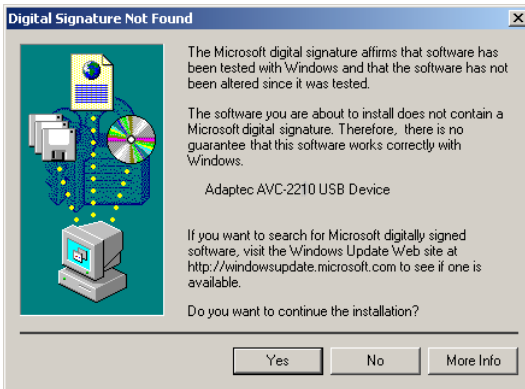
5 Click **Finish** to complete the USB Loader installation.

6 Repeat steps 2 through 4 to install the device drivers.
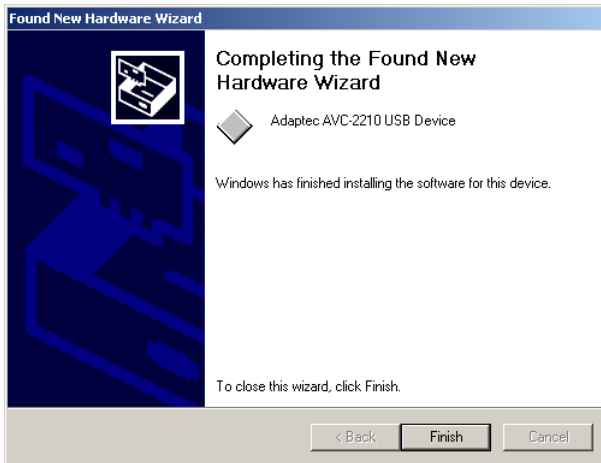
7 If this window appears, click **Yes**.

> ⚠ **Note**: Adaptec drivers have been fully tested and certified to work with the AVC-2210 device.

8 Click **Finish** to complete the installation.

9 When the installation is complete, restart your computer.

Note: To check if the driver is installed properly, you can follow the instructions provided in *Need Help Installing Your Device Drivers?* on page 28.

Windows Me

Windows Me automatically detects your device and opens the Found New Hardware Wizard. To perform the installation, follow the instructions provided in this section.

Note: Before installing the driver, make sure the VideOh! Installation CD is in your CD-ROM drive.
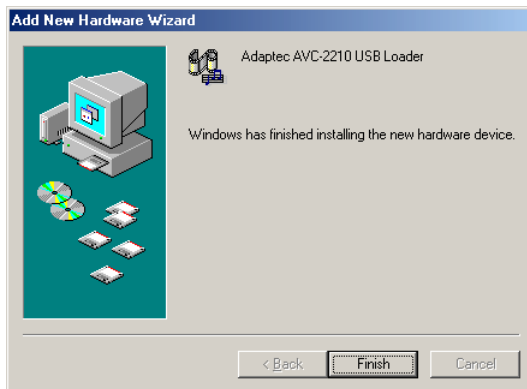

To install the driver:

1 In the Add New Hardware Wizard, click **Next**.

2 Select **Automatic search...**, then click **Next.**

3 Click **Finish** to complete the USB Loader installation.

4 From the Add New Hardware Wizard, repeat Steps 1 through 3 to install the device drivers.

Note: To check if the driver is installed properly, you can follow the instructions provided in *Need Help Installing Your Device Drivers?* on page 28.

Windows 98SE

Windows 98SE automatically detects your device and opens the Found New Hardware Wizard. To perform the installation, follow the instructions provided in this section.

> **Note:** Before installing the driver, make sure the VideOh! Installation CD is in your CD-ROM drive.

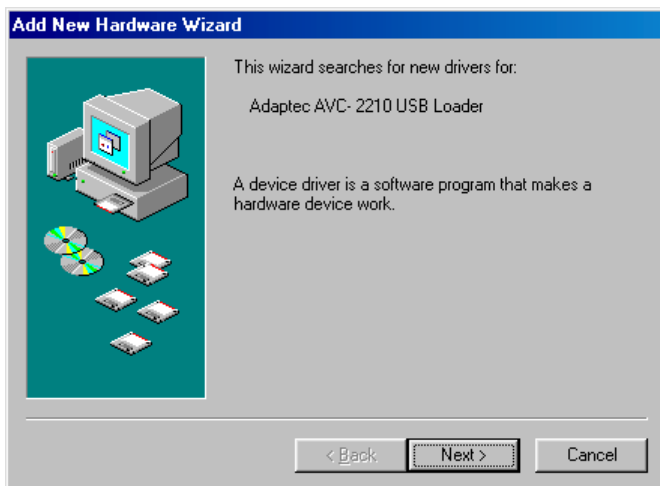> **Note:** You may need your Windows 98SE CD to complete this installation procedure.

To install the drivers:

1   In the Add New Hardware Wizard, click **Next**.

2 Select **Search for best driver...**, then click **Next**.

3 Select *only* **CD-ROM drive**, then click **Next**.
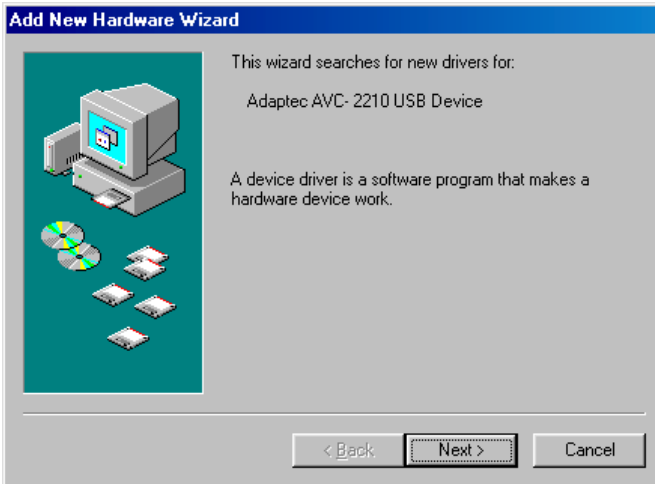
4 Click **Next**.

![Note icon] **Note:** The drive letter for your CD-ROM may be different than the one shown in the example above.
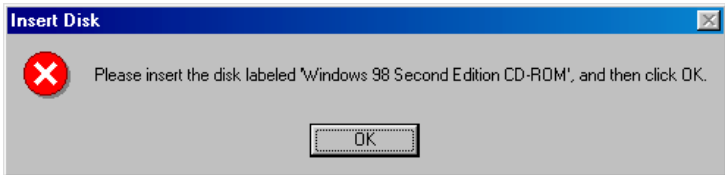
5 Click **Finish** to complete the USB Loader installation.

6   In the Add New Hardware Wizard, click **Next** then follow steps 2 through 4 to install device drivers.

7   If required, insert your Windows 98SE CD, then click **OK**.

8 Click **Finish** to complete the installation.

![Note icon] **Note:** If the driver file being installed from the VideOh! installation CD is older than the existing driver file, you may get a version conflict message. Select to keep the newer driver file.

![Note icon] **Note:** To check if the driver is installed properly, you can follow the instructions provided in *Need Help Installing Your Device Drivers?* on page 28.

Installing Sonic MyDVD

After you install your drivers, you need to install MyDVD. To install MyDVD:

> ✔ **Note:** If you have an older version of MyDVD already installed on your system, you must uninstall it first before insalling the newer version.

1   Insert the VideOh! CD into your CD-ROM drive. The VideOh! Installation screen appears.

   If the VideOh! CD Installation screen doesn't appear, use Windows Explorer to display the CD contents, then click **autorun.exe**.

2   From the Main VideOh! Installation screen, click **Install Software**, then click **MyDVD.**

3   Follow the on-screen instructions.

> ✔ **Note:** *Windows 98SE only*—Before it begins the MyDVD and Showbiz installation, your system may automatically install an updated version of Windows Installer, then prompt you to restart your computer. Follow the onscreen instructions to continue the installation.

Sonic MyDVD and the ArcSoft® Showbiz™ companion software will install on your system.

Creating A Video Project With MyDVD

These instructions give you the basic steps for capturing your video, trimming it, and then burning it to DVD or CD.

To get more information, refer to the online tutorial included with Sonic MyDVD. Or, at any time while you're using this software, click **?** or **Help**, to display detailed information about any step you want to perform.
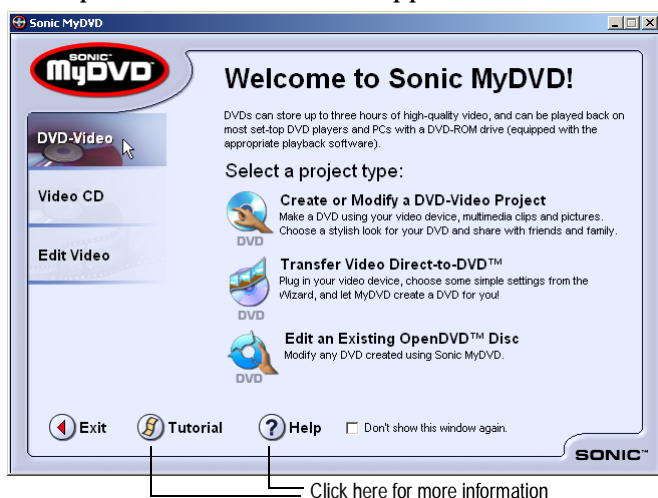
Before you begin creating:

■ **Make sure your analog video device (such as a camcorder or VCR) is connected to the AVC-2210 and switched on.**

■ **If you have an external DVD/CD recorder, make sure it is connected to your computer and switched on. You need a DVD-Recordable drive and appropriate media to burn DVDs. DVD-ROM, CD-R, and CD-RW drives do not have the capability to burn DVD discs. However, a CD-Recordable drive can burn a Video CD that you can play back on most DVD players.**

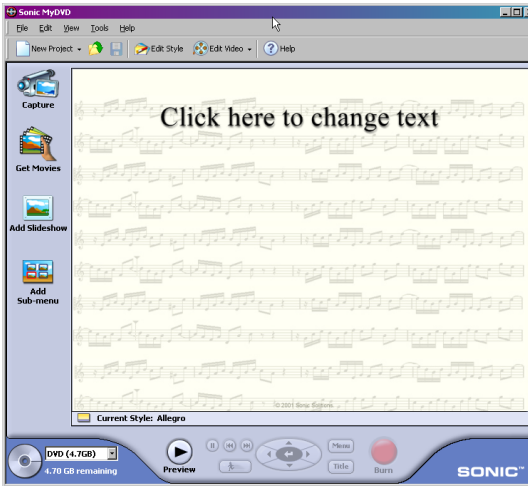## Capture Your Video

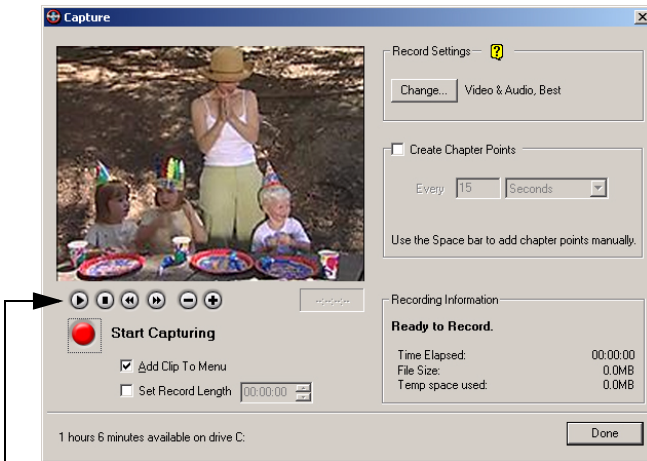To successfully capture your video, make sure you complete each step in the order given.

1 Start MyDVD by clicking the **Sonic MyDVD** icon on your desktop. The Welcome window appears.

Click here for more information

2 Move the mouse pointer over either DVD-Video or Video CD (depending on what type of media you want), then click **Create or Modify a ... Project**. The Main project window appears.

3 On the Main project window (shown in Step 2), click **Capture**. The Capture window appears.

These buttons won't operate your analog video device. Use the Play, Stop, and other control buttons on your device to control your analog video tape.

4 Press the **Play** button on your analog video device. The video image appears in the Capture window (as shown in Step 3).

5   To begin transferring your video to your computer, click **Start Capturing**.
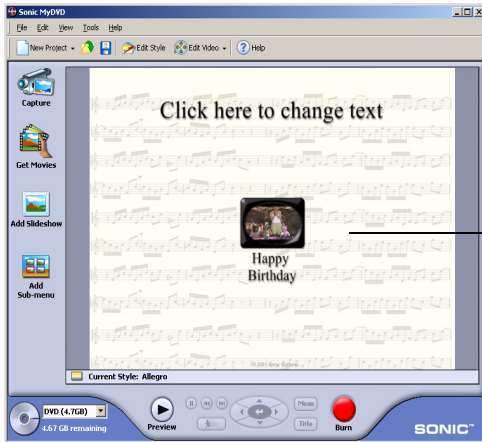
MyDVD captures your video, including the audio.

> ✓ **Note:** If you get any error messages at this point in your video capturing, stop your analog video device and refer to *Need Help Capturing Your Video?* on page 32.

6   When you want to stop transferring your video to your computer, click **Stop Capturing,** then stop or pause your analog video device.

7   On the Save As screen, enter the filename of your video clip and click **Save**. The filename you choose, becomes the title of your video clip and is displayed on the Main project window.

8   Click **Done** when finished.

Your video clip is saved and you will see a thumbnail picture on your Main project window.

The layout shown in the MyDVD Main project window is what your DVD menu will look like on your TV
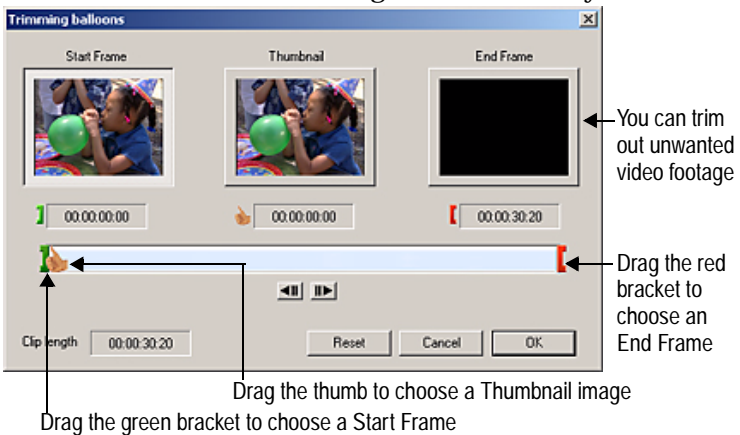
> ✓ **Note:** If you plan to do multiple video captures in the same session, save your project, then close and relaunch MyDVD every six captures (or sooner, if prompted by a system resource message).

Trim Your Video

Now that you've captured some video footage, you can trim it. For example, you can change your Start and End points. You can also choose the specific video frame that you want to use as the thumbnail picture that is displayed in your Main project window.

1 From the Main project window, double-click the thumbnail for the video clip you want to trim.

2 Use the controls in the Trimming window to trim your video.

You can trim out unwanted video footage

Drag the red bracket to choose an End Frame

Drag the thumb to choose a Thumbnail image

Drag the green bracket to choose a Start Frame

3 Click **OK** when finished.

> ✓ **Note**: For more advanced editing functions, use the ArcSoft Showbiz companion software included with MyDVD. For more information, see *Finding More Information* on page 27.

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Preview Your Project

It's a good idea to see how your DVD/VCD project will look before you burn it to disc. To preview your project, press **Preview** at the bottom of your Main project window, then double-click the thumbnail clip you want to look at.

When you have previewed your project, press **Stop**.

■ If playback appears fuzzy and unclear (for example, the edges of objects, especially objects in motion, are feathered) it is because of a difference between how televisions and computer monitors display video. This effect is not noticeable when you play back the finished DVD or VCD disc on your TV.

■ If your computer's processing speed is less than 800 MHz or if you are using a slower video card, your preview video in the MyDVD capture window may appear choppy. However, the finished DVD or VCD, played back on your TV, will be fine. Updating the drivers for your computer's video and/or audio card may minimize this problem. Check your video or sound card manufacturer's Web site for driver updates.

Burn Your DVD or VCD

When you are satisfied with how your DVD or VCD project looks, you are ready to burn it onto a recordable DVD or CD.

1   Insert a recordable DVD or CD into your computer's DVD or CD recorder.

2   On the Main project window, click **Burn**.

3   Follow the on-screen instructions.

    You will be notified when your DVD or VCD is successfully completed. On average, a 30 minute DVD or VCD can take from 1 to 2 hours to burn (depending on the speed of your computer and burner).

Sharing Your DVD or VCD

Now that you've captured your video and burned it to a DVD or CD, you're ready to share it. You can play your newly created DVD on most compatible DVD players and your VCD on most compatible DVD players or CD-ROM drives.

You can play your DVDs the way you play any standard DVD, using the controls on your DVD player or remote control.

To play a VCD, you need to select the video clip you want to view by using the number pad on the video player remote control. If you have more than 6 video clips, you can navigate between menu screens by using the skip forward and back controls on your TV remote control.

Finding More Information

To learn more about how to use Sonic MyDVD and ArcSoft ShowBiz:

■ In the MyDVD Welcome window, click the **Help** button or **Tutorial** button.

   In the Main project window, click the **Help** menu and select **MyDVD Help** or **Tutorial**.

■ In Showbiz, click on the question mark icon on the ShowBiz Main screen to open the online Help and Learn the Basics tutorial. Right-click on any screen item to open context-sensitive Help.

Registering Your AVC-2210

To ensure your eligibility for support and upgrades, and to qualify for future promotions, please register your AVC-2210 on the Adaptec Web site at register.adaptec.com.

Need Help with Your AVC-2210?

> **Note:** See the Readme file on the VideOh! Installation CD for the latest information.

- Ensure that your analog video device is connected and powered on.

- Double-check all cable connections.

- Try connecting to a different USB port on your computer. In doing so, you may need to reinstall the drivers.

- If your AVC-2210 is connected to a USB hub, try connecting it directly to your computer's USB port. You may also need to reinstall the drivers.

- Ensure that the AVC-2210 is properly connected and that the drivers are correctly installed. This will be indicated when the green power LED on the AVC-2210 is solid on.

- If the LED is blinking orange, save your work, close MyDVD, then power your AVC-2210 off, then on again.
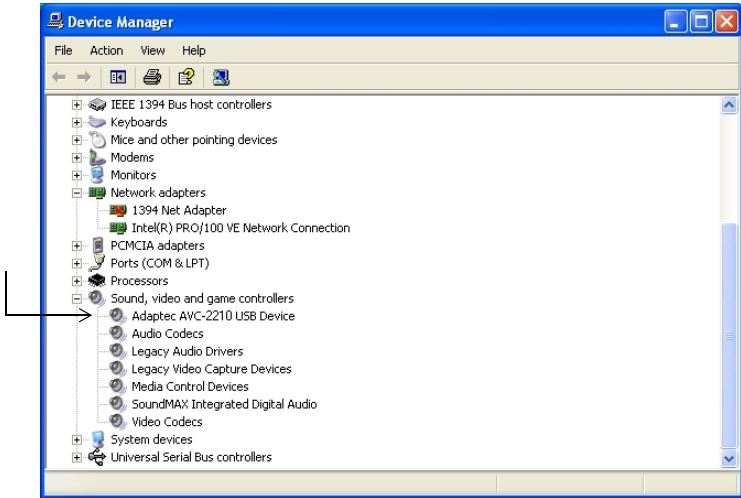
Need Help Installing Your Device Drivers?

To ensure that the driver for your operating system has installed properly, you may want to double-check your driver installation.

For Windows XP:

1 On the bottom left of your desktop, click the **Start** button, and double-click **Control Panel**. Click **Perfomance and Maintenance**, then double-click **System**. The System Properties window opens. Click the **Hardware** tab.

2 Open **Device Manager**.

3 Click **Sound, video and game controllers**, and check that Adaptec AVC-2210 USB Device appears, as shown in the following figure.

> **Note:** The screen you see on your computer may be different than the one shown in the example above.

If the AVC-2210 doesn't appear, refer to *Need Help with Your AVC-2210?* on page 28.

For Windows 2000:

1   On the bottom left of your desktop, click the **Start** button, select **Settings** and click **Control Panel**, then double-click **System**. The System Properties window opens. Click the **Hardware** tab.

2   Open **Device Manager**.

3   Click **Sound, video and game controllers**, and check that Adaptec AVC-2210 USB Device appears, as shown in the following figure.

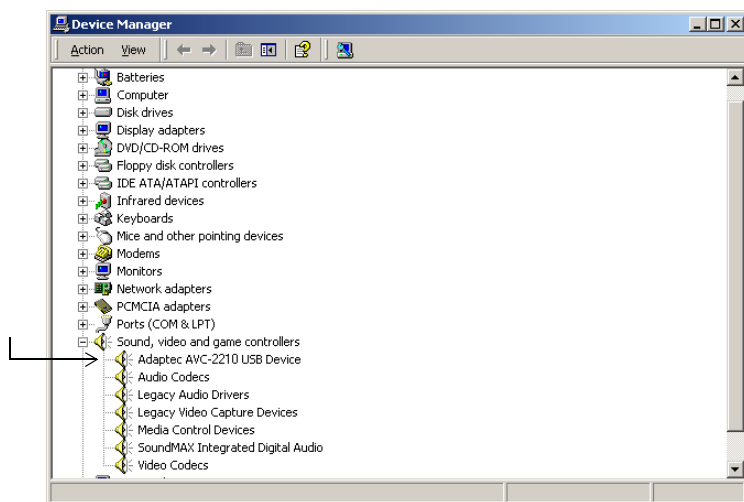> **Note:** The screen you see on your computer may be different than the one shown in the example above.

If the AVC-2210 doesn't appear, refer to *Need Help with Your AVC-2210?* on page 28.

For Windows Me and 98SE:

1 On the bottom left of your desktop, click the **Start** button, select **Settings** and click **Control Panel**, then double-click **System**. The System Properties window opens.

2 Open **Device Manager**, and select **View devices by type**.

3 Click **Sound, video and game controllers**, and check that Adaptec AVC-2210 USB Device appears, as shown in the following figure.
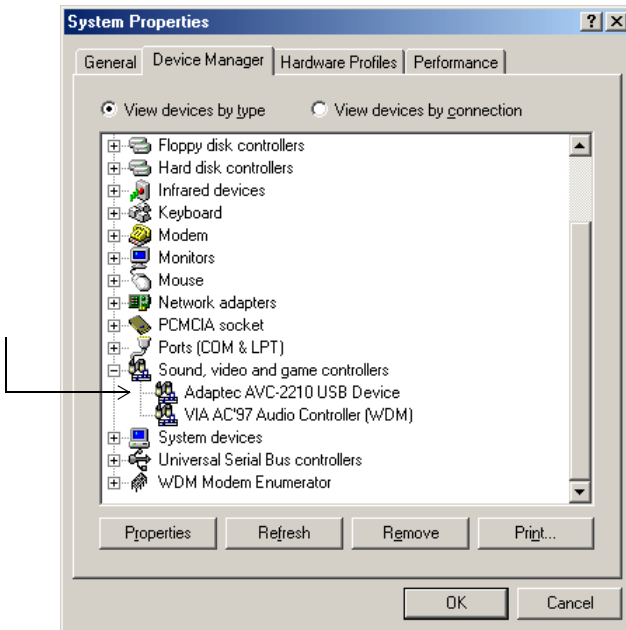

> **Note:** The screen you see on your computer may be different than the one shown in the example above.

If the AVC-2210 doesn't appear, refer to *Need Help with Your AVC-2210?* on page 28.

Need Help Capturing Your Video?

■ If your analog video device, such as a VCR or camcorder, is not powered on, after about 1 minute, you will get an error message.

To allow MyDVD to recognize and capture the video:

a Click **OK** to close the error message.

b Click **Done** to close the Capture window.

c Press the **Power on** button on your video device.

d Click **Capture**.

■ For optimum quality when creating DVDs, use the Best setting (in the MyDVD Capture window) when capturing video clips. However, if you have limited disk space, Adaptec recommends that you choose the Better or Good capture setting. Use this table to estimate the amount of disk space required:

Quality / Resolution	Capture Setting	Disk space required for:	
		1 minute of analog video	10 minutes of analog video
DVD (MPEG-II)	Good	42 MB	420 MB
	Better	49 MB	490 MB
	Best	57 MB	570 MB
VCD (MPEG-I)	Good	21 MB	210 MB

Note: Due to Microsoft Windows FAT file system limitations, the maximum file size you can use is 4 Gigabytes (GB). If possible, use NTSF formatted hard disk.

■ If you are capturing video using the Best quality setting and see choppy images on the preview window, make sure you're connected to a USB 2.0 port, because Best quality capturing may exceed the bandwidth of USB 1.1.

■ MyDVD may not be able to recognize footage from a damaged or degraded video tape.

■ If there are large gaps in your analog video tape of about 5 minutes, MyDVD stops capturing. To continue, forward to a new clip and start capturing. Gaps in video footage are often caused by stops, pauses, static, or unrecorded space in the original recording. They can also be caused by old, damaged, or deteriorated video tapes.

■ Set your computer monitor's screen resolution to 1024 x 768 or higher for optimum viewing.

■ If you are playing your video and it is not appearing on the MyDVD Main project window, make sure MyDVD is capturing from the correct device. To check your device, go to the Capture Window (as shown in Step 3 of *Capture Your Video*) and under Record Settings, click **Change**. Make sure **Adaptec USB Capture Device** is selected.

■ To avoid choppy video in a captured file, especially a long video clip, users should disable any background programs such as virus software or any CPU-loaded software.

Need Help Burning Your Video?

■ In rare instances, while burning your video to DVD, an error message may appear, such as bit rate too high. If this happens, double-click the thumbnail in MyDVD's Main project window. Select the **End Frame** on the **Trimming** window and remove about 5 to 10 seconds of video from the end. Close the Trimming window, save the project and try again. If the message persists, open the Trimming window again and check the video for static. If the static exists on the video, trim back to a point on the video where static does not exist.

Technical Specifications

Technology	USB 2.0
Video Capture Format	MPEG-1 and MPEG-2
Bit Rate	Constant bit rate (CBR)
Video Standards	NTSC format at 29.97fps: Full D1: 720x480, MPEG1: 352x240 PAL format at 25fps: Full D1: 720x576, MPEG1: 352x288
Audio Input	Stereo Audio (Left/Right RCA)
Video Input	Composite (RCA) S-Video Connector (7-pin DIN)
PC Interface	USB 2.0 Connector
Power	5 V Power Input (Power Jack) External Power Supply
Regulatory Certifications	FCC Class B, CE Class B (See page vii for more information.)

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