

# **Getting Started Guide**

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# Table of Contents

<b>Setting Up Your PC .....</b>	<b>1</b>
Putting Your PC Together .....	1
Connecting to the PC .....	2
Turning On Your PC for the First Time .....	3
Setting Up and Connecting to Your Internet Account .....	4
Installing Software and Hardware Devices.....	5
Transferring your old PC information and files to your new PC .....	5
Using Desktop Icons.....	6
Using Compaq Organize software .....	6
<b>Using the Keyboard .....</b>	<b>7</b>
Customizing the keyboard buttons .....	9
<b>Setting Up Sound .....</b>	<b>11</b>
Using Speakers .....	11
Setting Up 3-connector Sound .....	12
Configuring multi-channel audio output for the DVD player .....	14
Setting Up 6-connector Sound .....	14
Determining the audio configuration software .....	16
Using the Sound Effect Manager (6-connector) .....	16
Configuring speakers using the Sound Effect Manager (6-connector).....	16
Configuring sound for recording with the Sound Effect Manager (6-connector).....	17
Using the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio) .....	19
Configuring the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio) .....	19
Configuring sound for recording with the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio) .....	20

Retasking audio connectors with the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio) .....	20
Configuring Multi-streaming Audio (6 connector, Multi-streaming Audio) .....	20
Setting Up Multi-streaming Audio .....	22
<b>Using the Memory Card Reader .....</b>	<b>25</b>
Using the Memory Card Reader .....	25
Media Insertion Guide .....	26
Working With the Safely Remove Hardware Utility.....	27
<b>Using a TV as a Monitor .....</b>	<b>29</b>
Identifying Cables You May Need .....	29
Connecting to a TV Set .....	29
Viewing the PC Image on Your TV Screen .....	30
nView tab.....	31
Ge Force tab .....	31
Displays tab.....	32
Disabling the TV Option .....	32
nView tab (disabling).....	33
Ge Force tab (disabling) .....	33
Displays tab (disabling).....	33
Disconnecting the TV .....	34
<b>Using the HP Personal Media Drive .....</b>	<b>35</b>
Connecting the Drive .....	35
Inserting the Drive .....	36
Locating the Drive and Assigning a Drive Letter .....	37
Using the Drive .....	38
Disconnecting the Drive.....	39
<b>Working with Digital Images.....</b>	<b>41</b>
Working with Digital Images .....	41
Using HP Image Zone Express .....	41
<b>Playing CDs and DVDs .....</b>	<b>45</b>
Playing Music CDs with iTunes.....	45
Playing CDs and DVDs with Windows Media Player .....	46
Playing DVD Movies with InterVideo WinDVD .....	46
Using country/region codes .....	48
Playing Video CDs (VCD) with InterVideo WinDVD .....	48
Playing Video CDs (VCD) with Windows Media Player.....	49

<b>Creating Audio and Data Discs .....</b>	<b>51</b>
Erasing Rewritable Discs Before Recording .....	52
Working with Audio CDs .....	52
Verifying audio disc recorded without errors .....	53
Audio CD tips .....	53
Creating audio CDs .....	54
Creating jukebox discs .....	54
Working with Data DVDs and CDs .....	55
Verifying data disc recorded without errors .....	55
Data disc tips .....	56
Creating data discs .....	56
Copying a DVD or CD .....	57
Archiving Files on a CD or DVD .....	58
Working with Image Files .....	58
Creating an image file .....	59
Burning from an image file .....	59
Disc Labeling with LightScribe .....	59
LightScribe requirements .....	60
Burning a LightScribe label with Sonic Express Labeler .....	60
Burning a LightScribe label after burning with iTunes .....	61
Using adhesive disc labels .....	62
Compatibility Information .....	62
Disc Features and Compatibility Table .....	63
Optical Drive Quick Reference Table .....	64
Software Quick Reference Table .....	65
<b>Creating Video Discs and Movies .....</b>	<b>67</b>
Before You Begin Capturing Video .....	67
Sonic MyDVD Video Projects .....	68
Creating a Video Project .....	68
Adding files to a video project .....	69
Capturing video to a video project .....	69
Adding slideshows to a video project .....	70
Adding submenus to a video project .....	70
Editing the style of a video project .....	71
Editing movie files .....	71
Burning a video project to disc .....	72
Creating a Video Project With the Direct-to-Disc Wizards .....	73
Video Quality and Disc Size .....	74
DVD Recording Time .....	75

<b>Getting Help .....</b>	<b>77</b>
Finding Onscreen Guides.....	77
Finding Guides on the Web .....	77
Using the Onscreen Help and Support Center.....	78
Using Compaq Connections .....	78
Getting messages .....	78
Turning off messages .....	79
Reactivating messages .....	79
Using PC Help & Tools.....	79
<b>Index .....</b>	<b>81</b>

# Setting Up Your PC



**WARNING:** Please read “*Safety Information*” in the *Warranty and Support Guide* before installing and connecting your PC to the electrical power system.



**WARNING:** The power supply is preset for the country/region in which you purchased your PC. If you move, please check the voltage requirements before plugging your PC into an AC power outlet.

## Putting Your PC Together

Follow the steps on the quick setup poster to set up your PC.

Look in the PC box for printed details or updates regarding your model PC.

After assembling your PC, but before you begin using it, arrange the PC and your work area to maintain your comfort and productivity. Refer to the *Safety & Comfort Guide* for important ergonomic information.



**WARNING:** To reduce the risk of serious injury, read the *Safety & Comfort Guide*. It describes proper workstation setup, posture, and health and work habits for computer users. It also provides important electrical and mechanical safety information.

To view the *Safety & Comfort Guide*:

- Click **Start**, choose **All Programs**, choose **User’s Guides**, and then click **Safety & Comfort Guide**.

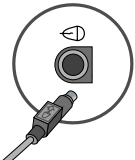





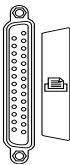

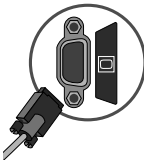


Or

- Type  
<http://www.hp.com/ergo/>  
into your Web browser address box, and then press Enter on the keyboard.

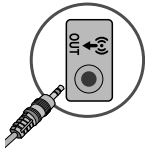







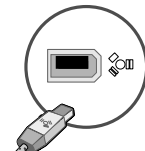

Your PC features and location, availability, and number of connectors may vary.

## Connecting to the PC

Connect your main hardware devices like the monitor, keyboard, and mouse to the back of the PC. Other peripheral devices like a printer, scanner, camera, or other equipment also plug into connectors on the back of your computer. Some PC models also have connectors on the front of the PC. The table does not show all connectors.

Connector	Connector symbol	Description
		Mouse (PS/2 connector)
		Keyboard (PS/2 connector)
		Universal Serial Bus (USB) for mouse, keyboard, digital cameras, or other devices with USB connectors
		Printer (parallel)
		Monitor
	<b>Serial</b>	Serial port for some digital cameras or other serial devices



Connector	Connector symbol	Description
		Audio Line Out (powered speakers)
		Audio Line In
		Headphones
		Microphone
		FireWire® (IEEE 1394) for video cameras or other devices with very fast transfer rates

## Turning On Your PC for the First Time

After you have completed the steps on the quick setup poster, you are ready to turn on your PC.

- 1 Press the Power button on the monitor.
- 2 Press the On button on the front of the PC.
- 3 Turn on the speakers, if they are present.
- 4 Click an option to select your language (if applicable for your model). Click **OK**, and then confirm your selection by clicking **Yes**. Wait until the PC makes preparations. (It may take up to 30 minutes for this one-time language setup on the PC.)
- 5 Set up Microsoft® Windows® by following the onscreen instructions.

- 6 Follow the Easy Internet Sign-up wizard to set up an Internet connection (select models only). If you do not wish to set up an Internet connection at this time, Easy Internet Sign-up can be manually started at a later time. See “Setting Up and Connecting to Your Internet Account” on page 4.
- 7 Follow the Easy Setup wizard to update the PC security tools, register the PC and finish PC setup (select models only). If you decide to finish setup at a later time, the wizard can be started by double-clicking the **Easy Setup** icon on the desktop.

## Setting Up and Connecting to Your Internet Account

Before you can connect to the Internet, you must sign up with an Internet service provider (ISP). If Internet service was not set up during the initial setup of the PC, it can be set up at your convenience.

- 1 Make sure the modem or other Internet access cable is connected.

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**NOTE:** For high-speed broadband, cable, or digital subscriber line (DSL), contact your ISP for any specific software and hardware you may need.

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- 2 Open Easy Internet Sign-up, and set up an Internet account:  
Double-click the **Easy Internet Sign-up** icon on the desktop.



Or

- 3 Click **Start** on the taskbar, **All Programs**, **Online Services**, and **Easy Internet Sign-up**.

---

**NOTE:** Easy Internet Sign-up provides a list of Internet service providers; however, you may choose another ISP or transfer an existing account to this PC.

---

- 4 Connect to your ISP and the Internet:
  - Double-click the ISP-provided icon on the desktop.

Or

- Press the Connect (or Internet) button on the keyboard (select models only).

Or

- If your PC is always connected to your ISP, open your browser program, such as Internet Explorer: Click **Start**, **All Programs**, **Online Services**, and **Internet Explorer**.



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**NOTE:** If you have questions, contact the ISP directly.

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# Installing Software and Hardware Devices

After you turn on the PC the first time, you can install any software programs that came on CDs or DVDs included in the PC box (select models only).

You may wish to install additional software programs or hardware devices on your PC. Before installation, make a restore point using the Microsoft System Restore program, and then restart the PC after installation. By using System Restore, you ensure that you have a point to return to before an issue occurred. For information about System Restore, refer to the Microsoft Web site at:

**<http://www.microsoft.com/worldwide/>**

Choose software that is compatible with your PC — check the operating system, memory, and other requirements listed for the new software for compatibility with your PC.

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**NOTE:** Only use original licensed software. Installing copied software may be illegal or may infect your PC with a virus.

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Install the new software according to the directions provided by the software manufacturer. Check the manufacturer's documentation or customer service information for help if you need it.

For antivirus software, uninstall the existing software program before reinstalling it or installing a new antivirus program.





## Transferring your old PC information and files to your new PC

See the built-in Microsoft Windows Help and Support Center:

- 1 Click **Start, All Programs, Help and Support**
- 2 Search for *transfer wizard*, and select the overview article, "Files and Settings Transfer Wizard overview." This information describes a Microsoft solution for moving your files onto your new PC.

## Using Desktop Icons

The desktop has shortcut icons that make it easy to find the things you need.

Icon	Opens	Use it to
	Help and Support (select models only)	View onscreen Help information about your PC.
	Easy Internet Sign-up	Set up a new or an existing Internet account.
	HP Image Zone Express (select models only)	Manage and protect your still photos, scanned images, and video clips.
	Compaq Organize (select models only)	Organize your PC shortcuts and your favorite Internet destination links.

## Using Compaq Organize software

Compaq Organize software (select models only) is a desktop tool you use to organize both your PC shortcuts and your favorite Internet destination links. You use it to organize the important things you do on the PC and the Internet and to arrange them the way you want. Compaq Organize makes all your information available with just a few mouse clicks.

Compaq Organize looks like a window with multiple category frames. Each category has links to Internet destinations or shortcuts to software programs or files on your PC. Use the player area for viewing pictures, for listening to your MP3 music files stored on your computer, or for watching video clips. For searching, there is a search bar at the top of Compaq Organize where you can select the search engine you want to use.

To open Compaq Organize:

Double-click the desktop icon.

Or

- 1 Click **Start** on the taskbar.
- 2 Choose **All Programs**.
- 3 Click **Compaq Organize**.












# Using the Keyboard





























Your keyboard has an arrangement of standard keys, indicator lights, and special buttons (select models only).


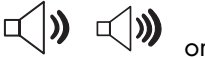


## Identifying Special Keyboard Buttons

There are special buttons (select models only) at the top of the keyboard. (Some models have some of these special buttons on the left side of the main keys.) These buttons operate a CD or DVD player, connect you to the Internet, or provide quick access to specific functions.

**NOTE:** The number, location, and labeling of buttons vary by keyboard model.

Icon	Feature	Description
	Standby	Puts PC into power-saving mode (screen is blank but PC is still on). To make the screen reappear, press the Esc key, or press Standby again. May take 10–30 seconds before the screen reappears.
	User	Switches between the PC users.
Compaq or 	Compaq My Presario	Links to Compaq Web site.
? or 	Help	Opens the Help and Support Center.
 or 	Pictures (Photos)	Opens an imaging software program. Can be reconfigured.
 or 	Music	Starts iTunes or Windows Media Player. Can be reconfigured.
	Video	Opens video software program. Can be reconfigured.

Icon	Feature	Description
  or 	Shopping	Goes to popular Web sites. Can be reconfigured to open a site or software program.
 or 	Sports	
 or 	Finance	
  or 	Connect to Internet	
  or 	Search	
 or 	Chat	
 or 	E-Mail	
	Entertainment	
	Offers	
	Calculator	Opens the calculator. Can be reconfigured.
<b>A</b>  <b>B</b>  <b>C</b>  <b>D</b>  <b>E</b>   <b>F</b>  	Media controls (CD/DVD/MP3)	Operates a disc player. <b>A</b> Open and close disc tray <b>B</b> Record <b>C</b> Play or pause <b>D</b> Stop <b>E</b> Skip to the previous track <b>F</b> Skip to the next track

Icon	Feature	Description
  	Volume control (Volume knob or Volume Up and Volume Down buttons)	Volume knob: Increases speaker volume when turned clockwise and decreases volume when turned counterclockwise. It can be turned indefinitely, even after maximum sound has been reached.  Volume Up and Down buttons: Press the Volume Up button to increase volume and the Volume Down button to decrease volume.
	Mute	Turns speaker sound on and off.

**NOTE:** The number, location, and labeling of buttons vary by keyboard model.

## Customizing the keyboard buttons

You can customize some of the special buttons on the keyboard (select models only) to open different programs or files or to connect to favorite Web sites:

- 1 Click **Start** on the taskbar.
- 2 Choose **Control Panel**.
- 3 Click **Printers and Other Hardware**, if it is present.
- 4 Double-click **Keyboard**.
- 5 On the Buttons tab, double-click the button you want to change.
- 6 For the Button configuration, click the **Down arrow** to the right of the list and choose the button capability, such as *Complex remote page with label* or *Simple local file with label*.
- 7 Enter a display label and the address information. For a Web page, enter the URL.
- 8 Click **OK**.
- 9 On the Buttons tab, click **Apply**.
- 10 Repeat steps 5 through 9 for each button you want to customize.
- 11 Click **OK** to finish.

**NOTE:** Clicking the **Restore Defaults** button on the Button tab restores all of the Internet buttons to the factory settings.





# Setting Up Sound

## Using Speakers

Speakers are included with the monitor (select models only) or are sold separately. Your PC supports only an active (powered) speaker system; the speaker system must have its own power cord.

**NOTE:** A *stereo speaker set* is a left-right, two-channel speaker system. A *multi-channel audio speaker system* is a system with more than two channels, and it may include a subwoofer. For example, 7.1 channels, referred to as an eight-speaker mode, uses two front speakers (left-right), two side speakers (left-right), two rear speakers (left-right), a center speaker, and a subwoofer.

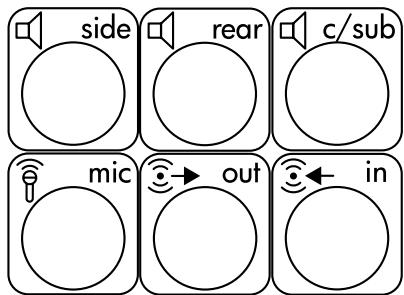
**NOTE:** If your PC includes a sound card (select models only), refer to the documentation that came with the sound card.

The PC supports a variety of sound options and speaker configurations. You may set up your PC for two stereo speakers or for multi-channel audio speaker systems. Connect your speaker system to the PC, and then configure the audio software for sound output. For details on connecting stereo speakers to the PC, see the setup poster. Location, availability, and number of connectors may vary.

- If your PC model includes three sound connectors (select models only) on the back of the PC, see “Setting Up 3-connector Sound” on page 12.



- If your PC model includes six sound connectors (select models only) on the back of the PC, see “Setting Up 6-connector Sound” on page 14.






# Setting Up 3-connector Sound

PC models that include three sound connectors (select models only) on the back of the PC support up to six channels of sound (5.1 speaker output) and use the Multi-channel Sound Manager to configure the software settings.

## Connecting the speaker system to the PC (3-connector)

The 3-connector audio speaker system uses the Audio In, Audio Out, and Mic connectors on the back or front of the PC. Refer to the setup poster for the location of the connectors.

- 1 With the speaker system off, assemble the speakers and, if used, the subwoofer. Refer to the speaker documentation.
- 2 Turn off the PC.
- 3 Connect the three audio cable plugs from the speaker system to the connectors on the back of the PC. (See the following table.)

Connect speaker plugs for:			To PC connector	Connector icon
2 Speaker Mode	4/4.1 Speaker Mode	6/5.1 Speaker Mode		
Front speakers	Front speakers	Front speakers	Audio Out (lime green)	 OUT
Not used for speakers	Rear speakers	Rear speakers	Audio In (blue)	 IN
Not used for speakers	Not used for speakers	Center/subwoofer speakers	Mic-1 (pink)	

- 4 Turn on the PC.
- 5 Turn on the speaker system.
- 6 Configure the audio output for this 3-connector multi-channel speaker system by performing the following procedure.

## Configuring the Multi-Channel Sound Manager (3-connector)

- 1 Click **Start** on the taskbar.
- 2 Choose **All Programs**.
- 3 Click **Multi-channel Sound Manager**. The Multi-channel Audio Configuration window opens.

---

**NOTE:** If you do not see the Speaker Configuration tab, your PC does not have the multi-channel capability. However, it still has two-channel (stereo) output.

---

- 4 Click the **Speaker Configuration** tab.
- 5 Select the option describing the number of speakers in your system, for example, **6/5.1 speaker mode**. You can click the **Speaker Test** tab and then click a speaker icon to test it.
- 6 Click **OK**.

To use a microphone for recording, see “Using the microphone with the Multi-Channel Sound Manager (3-connector)” on page 13.

To hear DVD movies recorded with multi-channel audio from all speakers, change the audio properties for WinDVD to match your speaker configuration (if your InterVideo WinDVD program supports more than two channels). Refer to “Configuring multi-channel audio output for the DVD player” on page 14.

## Using the microphone with the Multi-Channel Sound Manager (3-connector)

The 3-connector multi-channel speaker system (select models only) connects to the PC using the Microphone, Audio (Line) In, and Audio (Line) Out connectors on the back of the PC. Your PC may have a second microphone connector on the front of the PC. If present, this microphone connector is ready to use and does not affect the use of the multi-channel audio speaker system.

To use the microphone connector on the back of the PC with a 3-connector multi-channel audio speaker system, you must disconnect the cables for the multi-channel speakers and change the audio configuration to a two-channel audio system. Refer to “Configuring the Multi-Channel Sound Manager (3-connector)” on page 13 to set the audio configuration.

## Configuring multi-channel audio output for the DVD player

The InterVideo WinDVD program (select models only) is set up for two-speaker (stereo) output. To hear all speakers from DVD movies recorded with multi-channel audio, change the audio properties for WinDVD to match your speaker configuration (if your InterVideo WinDVD program supports more than two channels):

- 1 Insert a DVD, or start InterVideo WinDVD. (Click **Start, All Programs, InterVideo WinDVD, InterVideo WinDVD Player, and InterVideo WinDVD.**)
- 2 Right-click anywhere in the WinDVD video window, and then click **Setup**. The Setup window opens.
- 3 Click the **Audio** tab.
- 4 Click the option for the number of speakers to match your multi-channel speaker system.
- 5 Click **Apply**.

---

**NOTE:** To test the speakers (multi-channel speakers only), click the **Test** button. The WinDVD control panel shows the speaker number being used. Click **Stop**.

---

- 6 Click **OK**.

---

**NOTE:** If you want to play a stereo DVD, change the audio properties of WinDVD to match the recorded DVD audio output.

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## Setting Up 6-connector Sound

PC models that include six sound connectors on the back of the PC, support up to eight channels of sound (7.1 speaker output).

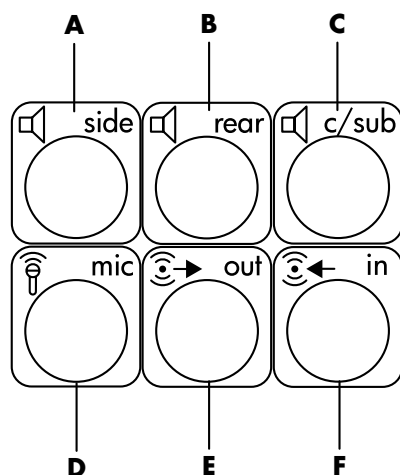
### Identifying the audio connectors (6-connector)

The PC supports a maximum of eight speakers in a multi-channel speaker system by using four of the six audio connectors on the back of the PC.

This PC also has Digital Audio Out and Digital Audio In connectors for digital sound devices such as a DVD recorder or a digital stereo receiver/amplifier.

- A** Side speaker port (side)
- B** Rear speaker port (rear)
- C** Center speaker/subwoofer port (c/sub)
- D** Microphone (mic)
- E** Audio line out (out) for front speakers
- F** Audio line in (in)

The connectors for the 6-connector multi-channel speaker system are on the back of the PC.



### Connecting the speaker system to the PC (6-connector)

- 1** With the speaker system off, assemble the speakers and, if used, the subwoofer. Refer to the speaker documentation.
- 2** Turn off the PC.
- 3** Connect the audio cable plugs from the speaker system subwoofer to the connectors on the back of the PC. (See the following table.)

Connect speaker cable (plug) for:	To PC port (label, name, color):
Front speakers (or two stereo speakers)	Audio line out ( <b>E</b> , out, lime green)
Side speakers	Side speaker ( <b>A</b> , side, gray)
Rear speakers	Rear speaker ( <b>B</b> , rear, black)
Center speaker/subwoofer	Center speaker/subwoofer ( <b>C</b> , c/sub, gold)

- 4** Turn on the PC.
- 5** Turn on the speaker system.
- 6** Configure the audio output for this 6-connector multi-channel speaker system by performing the following procedure.

## Determining the audio configuration software

PC models that include six sound connectors use either the Sound Effect Manager or the Realtek HD Sound Effect Manager to configure the audio software settings.

Click **Start** on the taskbar, **Control Panel**, and **Sounds, Speech, and Audio Devices**.

- If **Sound Effect Manager** is present, follow the instructions for “Using the Sound Effect Manager (6-connector)” on page 16.
- If **Realtek HD Sound Effect Manager** is present, follow the instructions for “Using the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio)” on page 19.

## Using the Sound Effect Manager (6-connector)

The Sound Effect Manager has four buttons that display its control screens.

### To open the Sound Effect Manager:

- 1 Click **Start** on the taskbar, **Control Panel**, **Sounds, Speech, and Audio Devices**, and **Sound Effect Manager**.
- 2 Click a button near the top of the window to see that control screen.

### The Sound Effect Manager control screens:

- **Sound Effect** — selects the Environment and the Equalizer settings. You can select an Environment, such as *Under Water* or *Auditorium*. To use the Equalizer, click the Power button in the center of the circular equalizer control to turn on the Equalizer. You can click a preset button, such as *Pop* or *Live*, or manually adjust the settings and then save them for easy selection later.
- **Speaker Configuration** — selects the number of speakers, shows the Connection Guide, and has the Speaker Test button to test the speakers. A connector with no descriptive text in the Connector Guide indicates that the connector is not used for the selected speaker configuration.
- **Digital Audio** — selects the digital audio output and digital audio frequency for the digital audio connectors on the PC.
- **Audio Wizard** — enables both the microphone connector and the headphones connector to be *retasked* to perform a different audio function.

## Configuring speakers using the Sound Effect Manager (6-connector)

- 1 Click **Start** on the taskbar; **Control Panel**; **Sounds, Speech, and Audio Devices**; and **Sound Effect Manager**.
- 2 Click the **Speaker Configuration** button.

- 3 Select the number of speakers in your system, for example, **7.1 speakers**.  
A connector with no descriptive text in the Connection Guide indicates that the connector is not used for the selected speaker configuration.

---

**NOTE:** Click the **Speaker Test** button to test the speakers.

---

- 4 Click **OK**.

To hear DVD movies recorded with multi-channel audio from all speakers, change the audio properties for WinDVD to match your speaker configuration (if your InterVideo WinDVD program supports more than two channels). Refer to “Configuring multi-channel audio output for the DVD player” on page 14.

To use a microphone or set up the PC for recording, see “Configuring sound for recording with the Sound Effect Manager (6-connector)” on page 17.

## Configuring sound for recording with the Sound Effect Manager (6-connector)

The microphone connector on the front of the PC is ready to use for recording sound. If you want to use another connector for recording, such as the Digital Audio In connector, use these steps to select it.

---

**NOTE:** The pink and green connectors on the front of the PC can be retasked to perform other audio functions; refer to “Retasking audio connectors using the Audio Wizard (6-connector)” on page 18.

---

- 1 Click **Start** on the taskbar; **Control Panel; Sounds, Speech, and Audio Devices; Sounds and Audio Devices**.
- 2 Click the **Audio** tab.
- 3 In *Sound recording* select the default device from the drop-down list. Choose:
  - **RealTek HD Front Pink Jack** to use the Microphone connector on the front of the PC.
  - **RealTek HD Digital Input** to use the Digital Audio In connector on the back of the PC.
  - **RealTek HD Front Green Jack** to use the green connector on the front of the PC.
  - **Back Line in/Mic, Front Line in** to use the Audio Line In (in) or the Microphone (mic) connectors on the back of the PC, or to use the Audio Line In connector on the front of the PC.

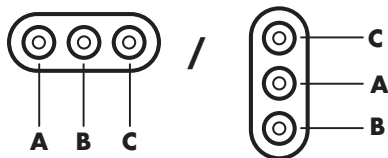
If **Back Line in/Mic, Front Line in** is selected, click **Volume**. The recording control window opens.

Click the **Select** check box under the connector you want to use so a check mark appears in the box. Close the recording control window.
- 4 Click **Apply** and **OK** to close the *Sounds and Audio Devices* window.

## Retasking audio connectors using the Audio Wizard (6-connector)

When you click the **Audio Wizard** button, a window opens that shows the three audio connectors on the front of the PC.

**NOTE:** The connectors on the front of your PC may vary; look for the connector icon and color.



Connector	Name	Icon	Color
<b>A</b>	Audio Line In		Light blue
<b>B</b>	Microphone		Pink
<b>C</b>	Headphones Or Audio Line Out	Or	Lime green


To enable the Audio Wizard select the **Enable auto detection** check box, and click **OK**.

With the Audio Wizard enabled, both the Microphone connector (**B**) and the Headphones connector (**C**) on the front of the PC can be *retasked* to perform a different audio function. These two connectors are universal audio jacks. When you plug in a cable, the wizard asks you to select the function for the cable from a list, and then it sets the universal audio jack to perform as the selected function. The functions are:

- Stereo speaker (Out)
- Microphone (In)
- Headphone (Out)
- Audio Line In



## Using the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio)

- 1 Click **Start** on the taskbar; **Control Panel; Sounds, Speech, and Audio Devices; Realtek HD Sound Effect Manager**.
- 2 Click a tab near the top of the window to see a control screen.
  - **Sound Effect** — selects the Environment and the Equalizer settings. You can select an environment, such as *Under Water* or *Auditorium*. To use the Equalizer, click the Power button in the center of the circular equalizer control to turn on the Equalizer. You can click a preset button, such as *Pop* or *Live*, or manually adjust the settings and then save them for easy selection later.
  - **Mixer** — allows control over volume, playback, mute, recording and multi-streaming audio. Click the Multi-streaming setting button to set up multi-streaming. 
  - **Audio I/O** — selects the number of speakers, shows the whether the plugs are analog or digital, and selects the Digital Audio Output and Digital Input device. Only speakers being used are displayed.
  - **Microphone** — allows fine control over the microphone/recording quality. Includes buttons for noise suppression and acoustic echo cancellation.

## Configuring the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio)

- 1 Click **Start** on the taskbar; **Control Panel; Sounds, Speech, and Audio Devices; and Realtek HD Sound Effect Manager**.
- 2 Click the **Audio I/O** tab.
- 3 Select the option describing the number of speakers in your system; for example, **7.1 speakers**.

Only connectors being used are shown; if the connector is not shown it means that it is not used for the selected speaker configuration.
- 4 Click **OK**.

To hear DVD movies recorded with multi-channel audio from all speakers, change the audio properties for WinDVD to match your speaker configuration (if your InterVideo WinDVD program supports more than two channels). Refer to “Configuring multi-channel audio output for the DVD player” on page 14.

To use a microphone or set up the PC for recording, see “Configuring sound for recording with the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio)” on page 20.

To use Multi-streaming Audio, see “Configuring Multi-streaming Audio (6 connector, Multi-streaming Audio)” on page 20.

## Configuring sound for recording with the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio)

The microphone connector on the front of the 6-connector audio PC is ready to use for recording sound. If you want to use another connector for recording, such as the Digital Audio In connector, use these steps to select it.

---

**NOTE:** The pink and green connectors on the front of a PC with 6-connector sound can be retasked to perform other audio functions; refer to “Retasking audio connectors using the Audio Wizard (6-connector)” on page 18.

---

- 1 Click **Start** on the taskbar; **Control Panel**; **Sounds, Speech, and Audio Devices**; and **Realtek HD Sound Effect Manager**.
- 2 Click the **Mixer** tab.
- 3 In *Record* click the drop-down list. Choose:
  - **RealTek HD Digital Input** to use the digital audio in connector (select models only).
  - **Line in/Mic in** to use the Audio Line In (In) or the Microphone (Mic) connectors.
- 4 Click **OK** to close the window.

## Retasking audio connectors with the Realtek HD Sound Effect Manager (6-connector, Multi-streaming Audio)

The pink and green connectors on the front of the PC connectors can be retasked as needed.

- 1 Click **Start** on the taskbar; **Control Panel**; **Sounds, Speech, Devices**; and **Realtek HD Sound Effect Manager**.
- 2 Click the **Audio I/O** tab.
- 3 Click the tool icon in the Front Panel section. The connector settings window displays.
- 4 Select Enable Jack detection when device is plugged in, and click **OK**.



The front pink and green connectors can now be used as input or output devices.

## Configuring Multi-streaming Audio (6 connector, Multi-streaming Audio)

The Realtek HD Sound Effect Manager software allows you to listen to two different audio sources on two different speaker sets.

For example, you hear one audio source through a rear-panel speaker connection and a second source through a front-panel headphone or speaker connection. You must configure Multi-streaming Audio for your system if you want to hear two audio sources on separate speakers.

## Audio Output Overview

The front-panel audio output is the stereo headphone (green) connector only.

The rear-panel outputs are the speaker connectors that can be set up as multi-channel out from stereo (2.0) to 7.1 (select models only) configurations. Refer to your user documentation for powered speakers or AV receiver setup information.

## Audio Input Overview

You can select two of the following audio sources to play through front-panel headphone and rear-panel speaker connectors:

- 1** From an externally connected device source, such as:
  - A microphone with cable connected to Mic In (pink).
  - An MP3 player cable connected to Line In (blue).
- 2** From an internal source inside, or directly connected to, the PC: Audio files may reside on hard disk drives, DVDs, CDs, USB Drives, HP Personal Media Drives, or any connected device. Play internal media files through programs such as:
  - Windows Media Player
  - WinDVD
  - HP Tunes
  - Other installed media player software

---

**NOTE:** Digital Audio In cannot be multi-streamed.

---

## When to Use Multi-streaming Audio

You may multi-stream two audio sources as described in the following typical examples:



- 1** For online gaming, where you hear 5.1 game sound on your AV receiver or powered speakers; while you also hear gaming conversation on your headset. See Example 1.
- 2** For digital home entertainment, where you hear:
  - DVD sound on your living room TV/display or AV receiver from the rear speaker connections.
  - While you also hear your PC headphone or powered speakers that are connected to the front panel green headphone jack, from one of the following external PC audio sources:
    - a** Front panel Line In
    - b** Internal source residing on: a hard disk drive, DVD, CD, USB Drive, or other external device

See Example 2.

## Setting Up Multi-streaming Audio

### Example 1: For Online Gaming

To configure multi-streaming audio output for online gaming with Realtek HD Sound Effect Manager, you must enable Voice-Over-IP software (software used to converse over the Internet). Your teammates hear your voice from the microphone via the Internet and you hear the game audio from the rear speakers:

- 1 Connect the audio input and output connectors to:
  - A headphone set to the front Headphone Out (green) connector.
  - A microphone to the front Mic In (pink) connector for online conversation.
  - A set of powered Stereo 5.1, or 7.1 speakers to the rear Speaker Out connectors for gaming sound output.
- 2 Click the **Realtek HD Audio Manager** icon on the system tray to open the Realtek HD Audio Sound Effect Manager window. 
- 3 Choose the **Mixer** tab.
- 4 Click the **Multi-streaming setting** audio button. The dialog box opens. 
- 5 Select the **Enable multi-streaming playback** check box.
- 6 Select one of the following options to determine how you would like to hear your own voice.
  - Check the **Output Mic In/Line In to front panel** check box, and select **OK**.
  - Check the **Output Mic In/Line In to rear panel** check box, and select **OK**.

---




**NOTE:** To ensure that you have sound output, go to the Mixer window to check that the setting of the front pink microphone is not on mute.

---

- 7 Select **Realtek HD Audio rear output** from the drop-down list.
- 8 Start the game that you are about to play. You should hear the gaming sound on the rear stereo, 5.1, or 7.1 speakers.
- 9 At the Mixer tab, select **Realtek HD Audio front output** to enable audio conversation with your teammates.

## Example 2: For Digital Home Entertainment

To configure multi-streaming audio output for digital home entertainment with Sound Effect Manager:

- 1 Connect the audio output connectors to:
  - A headphone set or powered speakers connected to the front Headphone Out (green) connector for stereo music playback.
  - A set of powered stereo, 5.1, or 7.1 speakers connected to the rear Speaker Out connectors for DVD playback sound output.
- 2 Click the **Realtek HD Audio Manager** icon on the system tray to open the Realtek HD Audio Sound Effect Manager window. 
- 3 Choose the **Mixer** tab.
- 4 Click the **Multi-streaming setting** audio button. The dialog box opens. 
- 5 Select the **Enable multi-streaming playback** check box, and select **OK**.
- 6 Select **Realtek HD Audio rear output** from the drop-down list.
- 7 Open WinDVD to play a DVD movie. You should hear the DVD sound on the rear speakers.
- 8 Select **Realtek HD Audio front output** from the drop-down list.
- 9 Open Windows Media Player to play music. You should hear the music sound on the front headphone connection.
- 10 To hear an external device source from the Line In or Mic In connection:
  - a Click the **Multi-streaming setting** audio button. The dialog box opens. 
  - b Check the **Output Mic In/Line In to front panel** check box in the dialog box, and select **OK**.



# Using the Memory Card Reader

Digital cameras and other digital imaging devices use memory cards, or *media*, to store digital picture files. The optional memory card reader (select models only) can read and write to a variety of types of memory cards and the IBM Microdrive disk drive.

The card reader is accessible directly on the front of the PC. It has four horizontal card slots, which accept the memory cards and the Microdrive disk drive.

You can place media in one or more of the card slots and use each media independently. Place only one piece of media in a slot at one time.

Each card slot has its own drive letter and icon. When you insert media, the display label may change to the title of the media, if the title is present.

## Using the Memory Card Reader

- 1 Insert the media into the card slot until it stops.

The activity light (**A**) on the memory card reader lights, and the PC automatically detects the media.

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**NOTE:** Media must be inserted correctly. Note the direction of the notched corner on the media. See the "Media Insertion Guide" on page 26.

CompactFlash and Microdrive are keyed and cannot be inserted incorrectly. Insert the receptacle edge (holes) of this media into the slot.

---

- 2 The PC opens a window so you can use the media contents. You can copy files from or to the media.
  - 3 When you are finished, right-click the drive icon, select **Eject**, check that the activity light is on but not blinking, and then remove the media. A steady activity light indicates that the PC is not reading or writing the media.
- 



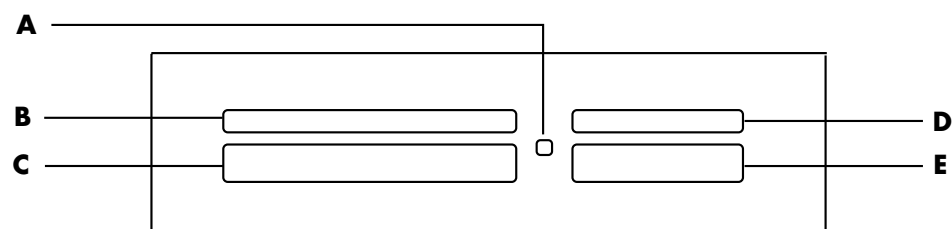
**WARNING:** Do not try to remove media when the activity light is blinking; doing so may cause loss of data.

---

# Media Insertion Guide

## 4-slot memory card reader (select models only)

- A** Activity light
- B** Upper-left slot
- C** Lower-left slot
- D** Upper-right slot
- E** Lower-right slot



Card	Insert	Into 4-slot reader
CompactFlash Type I media	Receptacle edge (holes)	<b>C</b> (lower-left)
CompactFlash Type II media	Receptacle edge (holes)	<b>C</b> (lower-left)
IBM Microdrive disk drive	Receptacle edge (holes)	<b>C</b> (lower-left)
Secure Digital (SD) Memory Card	Facing up	<b>D</b> (upper-right)
MultiMediaCard (MMC)	Facing up	<b>D</b> (upper-right)
Memory Stick (MS) Memory Card	Facing up	<b>E</b> (lower-right)
Memory Stick (MS-Pro) Memory Card	Facing up	<b>E</b> (lower-right)
SmartMedia (SM) Memory Card	Facing up	<b>B</b> (upper-left)
xD media	Facing up	<b>B</b> (upper-left)

**NOTE:** Do not use SM and xD media in the memory card reader at the same time. Only the first one inserted will be recognized by the memory card reader.



## Working With the Safely Remove Hardware Utility



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**CAUTION:** Do not click **Stop** in the Safely Remove Hardware window with the **USB Mass Storage Device** selected. Doing so removes the operating system recognition of the memory card reader from your PC; you must restart the PC to see your memory card reader again.

---

If you open the Safely Remove Hardware window by mistake, click **Close**.



# Using a TV as a Monitor

Your PC may have TV-out (select models only) capability, which means you can connect it to a television to view the computer image on a TV screen. With the TV-out feature, you can view the computer image, watch DVD movies (if you have a DVD player), or play games on your TV.

## Identifying Cables You May Need

To connect a TV to the PC, you may need a video cable and an audio cable (not provided; purchase separately). The type of video cable you need depends on your TV:

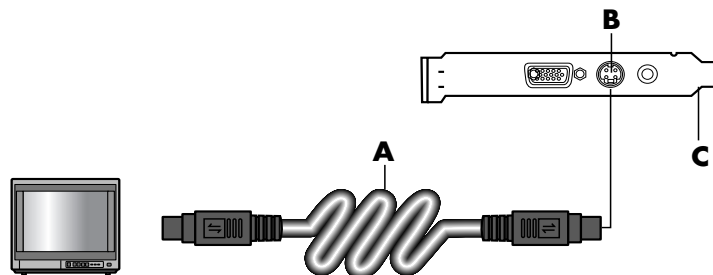
- If your TV has an S-video jack, you need an S-video cable.
- If your TV has a composite video jack, you need a composite video cable and, depending on the jacks on the back of your PC, you may also need an S-video adapter cable.

## Connecting to a TV Set

To use your TV as a PC screen:

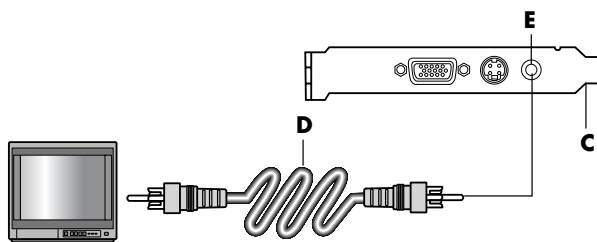
- 1 Turn off the PC.
- 2 Connect the TV cable using one of the following arrangements, depending on the connection jacks on your TV:
  - If your TV has an S-video jack, connect an S-video cable from the S-video In jack on the TV to the S-video jack on the back of the PC.

**A** S-video cable  
**B** S-video jack  
**C** Back of PC



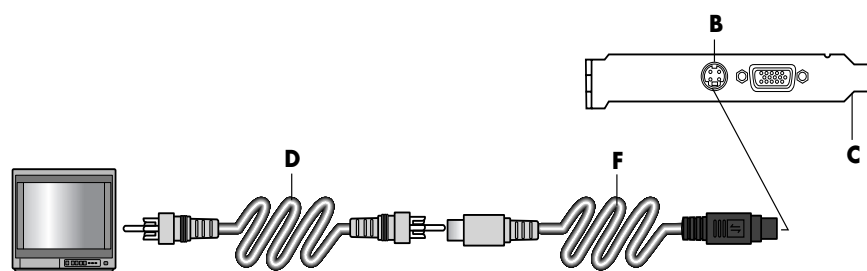
- D** Composite video cable
- E** Composite jack
- C** Back of PC

- If your TV has a composite video jack and your PC has a composite video jack, connect a composite video cable to the Video In jack on the TV to the composite video jack on the back of the PC.



- If your TV has a composite video jack and your PC has only an S-video jack, connect a composite video cable to the Video In jack on the TV and to an S-video adapter cable. Connect the S-video adapter cable to the S-video jack on the back of the PC.

- D** Composite video cable
- F** S-video adapter cable
- B** S-video jack
- C** Back of PC



**NOTE:** The S-video adapter cable is only needed if there is no composite video jack on the back of the PC.

- 3 To have sound come from your TV instead of from your PC, plug an audio cable into the audio input jack (Audio Line In) on the TV and plug the other end of the audio cable into the Audio Out jack (green connector) on the back of the PC.

## Viewing the PC Image on Your TV Screen

**NOTE:** The type of video card on your PC determines how the PC selects the TV-out option. Some options and menus in this procedure may be different for your PC.

- 1 Make sure the video and audio cables are connected before you turn on the TV and the PC.
- 2 Turn on the TV. Press the Video/TV button on your remote control to select the Video setting, not the TV setting.
- 3 Turn on your PC.

- 4** When the Windows desktop appears, right-click an empty area of the desktop and choose **Properties**. The Display Properties window opens.
- 5** Click the **Settings** tab.
- 6** Click the **Advanced** button.
- 7** Look at the tabs, and follow the steps that apply to your PC:
  - If you see the *nView* tab, continue with “*nView* tab.”
  - If you see the *Ge Force FX xxxx* tab, continue with “*Ge Force* tab.” (*FX xxxx* is the video card number.)
  - If you see the *Displays* tab, continue with “*Displays* tab.”

## **nView tab**

- 1** Click the **nView** tab.
- 2** To view the computer image on your PC monitor and your TV simultaneously, in the *nView Display Mode* area select **Clone**.  
*Or*  
To view the PC image on just the TV, in the *nView Display Mode* area, select **Standard [Dualview]**, click the **Device Settings** button, choose **Select Output Device**, and then select the **TV** option.
- 3** Click the **OK** button.
- 4** When the PC image appears on the TV screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
- 5** Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

## **Ge Force tab**

- 1** Click the **Ge Force FX xxxx** tab.
- 2** To view the computer image on your PC monitor and your TV simultaneously, in the *nView Modes* area select **Clone** from the drop-down list.  
*Or*  
To view the PC image on just the TV, in the *nView Modes* area select **Single display** from the drop-down list, and then, if necessary, in the *Current display* area select **TV** from the drop-down list.
- 3** Click the **Apply** button.
- 4** When the PC image appears on the TV screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
- 5** Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

## Displays tab

- 1 Click the **Displays** tab. This tab shows a monitor and a TV. Some PCs (select models only) show a TV for standard television and an HDTV for high-definition television. The upper-left corner of each display icon is a button and a status indicator. A red corner indicates an inactive display; a green corner indicates an active display.

---

**NOTE:** Your TV must be connected to the PC to change the display.

---

- 2 To view the computer image on your PC monitor and your TV simultaneously, click the upper-left corner of the TV icon so that it is green. Click **Apply**.  
Or  
To view the PC image on just the TV, click the TV corner so it is green, and then click the monitor corner so it is red. Click **Apply**.
- 3 When the PC image appears on the TV screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
- 4 Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

---

**NOTE:** Some PC models can connect more than one display device (CRT monitor, flat panel monitor, TV, and so on) to the PC. You can change where the PC desktop appears by pressing Alt+F5. (Press the Alt key and the F5 key on the keyboard at the same time.) Each time you press the Alt+F5 key combination, the PC desktop appears on the next device. If Alt+F5 does not work, restart the PC and try again.

---

## Disabling the TV Option

When you want to disconnect the TV from your PC, you may need to disable the TV option to return your PC display to its original resolution.

- 1 Right-click an empty area of the screen, and choose **Properties**. The Display Properties window opens.
- 2 Click the **Settings** tab.
- 3 Click the **Advanced** button.
- 4 Look at the tabs, and follow the steps that apply to your PC:
  - If you see the nView tab, continue with "nView tab (disabling)."
  - If you see the Ge Force FX xxxx tab, continue with "Ge Force tab (disabling)."
  - If you see the Displays tab, continue with "Displays tab (disabling)."

## nView tab (disabling)

- 1 Click the **nView** tab.
- 2 If you viewed the computer image on your PC monitor and your TV simultaneously, select *nView Display Mode* in the list on the left, and then select the **Standard [Dualview]** option.  
Or  
If you viewed the PC image on just the TV, select *nView Display Mode* in the list on the left, select **Standard [Dualview]**, click the **Device Settings** button, choose **Select Output Device**, and then select the **Analog Display** option.
- 3 Click the **OK** button.
- 4 When the PC image appears on the monitor screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
- 5 Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

## Ge Force tab (disabling)

- 1 Click the **Ge Force FX xxxx** tab.
- 2 In the *nView Modes* area select **Single display** from the drop-down list. In the *Current display* area select **Analog Display** or **Digital Display**.
- 3 Click the **Apply** button.
- 4 When the PC image appears on the monitor screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
- 5 Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

## Displays tab (disabling)

- 1 Click the **Displays** tab. This tab shows a monitor and a TV. (Select models show a monitor, a standard TV, and an HDTV.) The upper-left corner of each display icon is a button and a status indicator. A red corner indicates an inactive display; a green corner indicates an active display.
- 2 Click the upper-left corner of the TV icon so it is red, and then click the upper-left corner of the monitor icon so it is green. Click the **Apply** button.
- 3 When the PC image appears on the monitor screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
- 4 Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

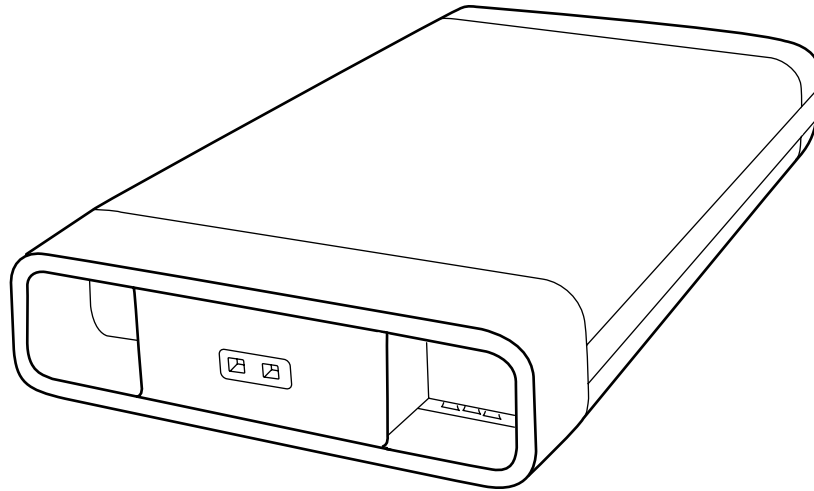
## Disconnecting the TV

- 1** Disable the TV option. See the previous procedure.
- 2** Turn off the TV and the PC.
- 3** Remove the video cable from the TV and the PC.
- 4** Remove the audio cable from the TV and the PC.
- 5** Reconnect your PC speaker cable to the Line Out jack (lime-green connector) on the back of the computer.



# Using the HP Personal Media Drive

The HP Personal Media Drive (sold separately) can be used as an internal or external USB hard disk drive designed to quickly and easily increase your storage capacity and to transfer media files such as digital photos, music, videos, and other important files. You can also use the HP Personal Media Drive to back up other drives on your PC.



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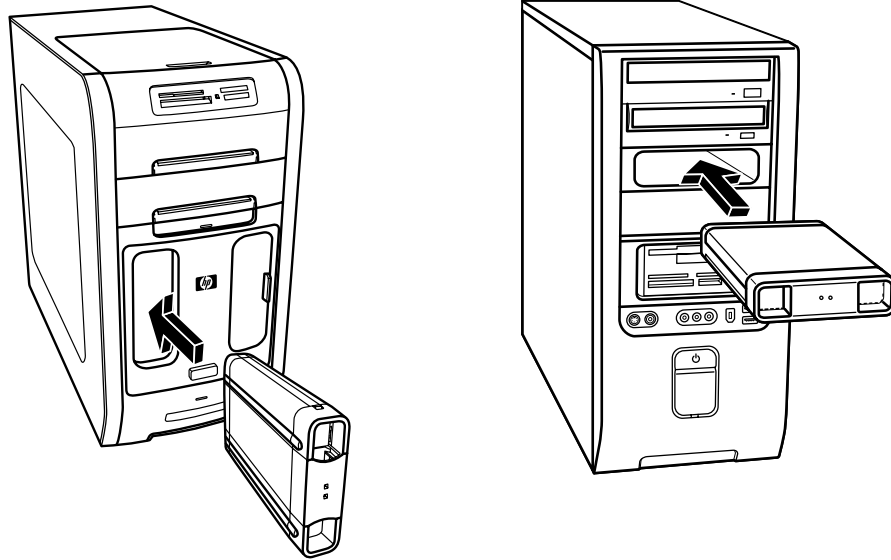
**NOTE:** Before starting the System Recovery Program, remove the HP Personal Media Drive. See your System Recovery documentation.

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## Connecting the Drive

As an external drive, the HP Personal Media Drive connects and disconnects easily from a USB 2.0 connector on the front or the back of most PCs. The drive comes with software, an external USB cable, and an external power cord and power adapter. For information about connecting and using the HP Personal Media Drive as an external drive, refer to the documentation that came with the HP Personal Media Drive.

For some PCs (select models only), the HP Personal Media Drive is designed to fit inside a horizontal or vertical drive bay.



**NOTE:** The drive can be easily inserted and removed from the bay without turning off the PC. This feature is sometimes referred to as *warm swappable*.

This special drive bay includes an internal USB port and power cable that connect to the drive when it is inserted.

The drive turns on when it is plugged into an active USB port. If the PC is turned on with the drive connected, the drive automatically turns on. When the USB cable for the drive is not plugged in or when the USB power from the PC is turned off, the drive automatically turns off. When the PC is in standby mode (a reduced power state), the drive remains turned on.



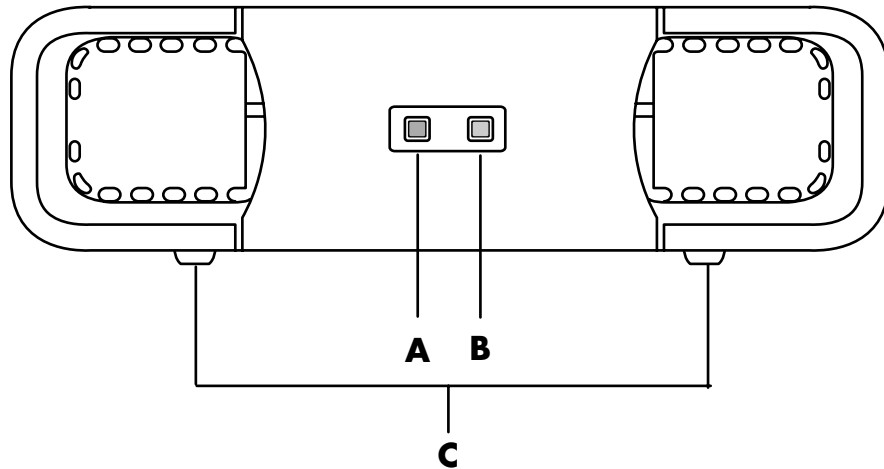
**WARNING: Do not move the PC with the HP Personal Media Drive inserted in the bay or connected to a USB port on the PC. This can cause damage to the drive and cause data loss.**

## Inserting the Drive

- 1 Turn on the PC.
- 2 Line up the ridges on the bottom of the drive with the two slots on the side or the bottom of the PC drive bay. Do not force the drive into the bay; it should slide easily into the bay.

- A** Drive activity indicator light
- B** Power on indicator light
- C** HP Personal Media Drive guide ridges

- 3** Slide the drive all the way into the drive bay until the drive is firmly connected to the internal power and USB port. With the PC turned on, the power indicator (**B**) on the front of the drive is lit when the drive is inserted correctly.



## Locating the Drive and Assigning a Drive Letter

After you insert the drive into the PC, you can find the drive in My Computer. The operating system automatically assigns a letter to the drive. The assigned letter depends on the other storage devices connected to the PC.

To locate the drive:

- 1** Click **Start** on the taskbar.
- 2** Click **My Computer**.
- 3** Select the drive under Hard Disk Drives. The default name is HP Personal Media Drive.

You can permanently assign a drive letter to avoid the letter changing when you connect and disconnect this drive and other devices. Also, it is easier for a software program to locate the files on the HP Personal Media Drive if a drive letter is assigned. Some programs may not be able to find files if the drive has a new drive letter.

It is best to always remove your drive safely to avoid errors. See "Disconnecting the Drive" on page 39.

**NOTE:** To avoid multiple hard disk drives using the same drive letter, when connecting and removing the drives, assign the letter Z to the HP Personal Media Drive.

To assign a drive letter:

- 1 Click **Start** on the taskbar.
- 2 Right-click **My Computer**.
- 3 Select **Manage** and then click **Disk Management**.
- 4 Right-click the **HP Personal Media Drive**.
- 5 Select **Change Drive Letter and Paths**.
- 6 Click **Change** and select a letter, and then apply the changes by clicking **OK**.

The default volume label of this drive is HP Personal Media Drive. You can rename the drive in the My Computer window by right-clicking the drive, selecting **Rename**, and then typing a new name. Rename the drive if you have more than one HP Personal Media Drive.

## Using the Drive

To store files:

The best way to transfer files to the HP Personal Media Drive is to drag them from your local hard disk drive. This allows you to place files in specific folders. Refer to the following procedures for more detailed instructions about creating linked folders.

To play media files:

You can play media from an HP Personal Media Drive.

- 1 Click **Start** on the taskbar.
- 2 Click **My Computer**.
- 3 Double-click the **HP Personal Media Drive** icon to locate your media file.
- 4 Double-click the file. Most media files open in Windows Media Player.

To play music files:

You can play music files that are stored on the HP Personal Media Drive:

- 1 Click **Start** on the taskbar, click **My Computer**, and then double-click the **HP Personal Media Drive** icon.
- 2 Create a personal music folder by right-clicking the drive window and choosing **New** and then **Folder**. Type a name for your personal music folder.
- 3 Drag or copy your music files into this created folder.
- 4 Open Windows Media Player by clicking **Start**, **All Programs**, and then clicking **Windows Media Player**.
- 5 In the Windows Media Player window, click **Tools**, select **Options**, and then select the **Media Library** tab.
- 6 Click the **Monitor Folders** button.
- 7 Click **Add** to add a pathway to your HP Personal Media Drive.
- 8 Browse to locate your created music file folder on your HP Personal Media Drive, and then click **OK**.


- 9 Click **OK**, and then **OK** again to close the Options window. Now your music files on your HP Personal Media Drive appear in the Windows Media Player library when your drive is connected to the PC.

When you disconnect the drive, your music files may still appear in the Windows Media Player Library. To refresh your PC, open and close Windows Media Player. If that doesn't work, restart the PC.

## Disconnecting the Drive

You can safely remove the drive when it is not active. When the amber activity light is blinking, the drive is active saving or transferring data. Removing the drive while the light is blinking may cause data loss or damaged files.

To disconnect the HP Personal Media Drive safely:

- 1 Close all programs that may be accessing your HP Personal Media Drive. Make sure that the activity light on the drive is off.
- 2 Double-click the **Safely Remove Hardware** icon in the system tray (on the Start taskbar). If this icon is hidden, click the arrows on the taskbar to display it. The Safely Remove Hardware window opens. 
- 3 Double-click **USB Mass Storage Device** to locate your HP Personal Media Drive. USB Mass Storage Device may be listed twice. One may contain a memory card reader or other mass storage drive.
- 4 Select the **HP Personal Media Drive**, and then click **OK**. The name of the drive may be different if you renamed it, or it may appear as Generic Volume followed by the assigned drive letter.  
*A Safe to Remove Hardware message appears in the system tray, letting you know that the device is safe to disconnect.*
- 5 Click **Close**.
- 6 Disconnect the drive by removing it from the drive bay.



# Working with Digital Images

## Working with Digital Images

You can connect a digital image source, such as a digital camera or a digital video camera, directly to the PC or through a docking station. Digital picture files you copy or download from the device appear in the My Pictures folder. You can copy digital picture files from the memory cards used by digital cameras and other digital imaging devices by using the memory card reader (select models only). Refer to "Using the Memory Card Reader" on page 25.

## Using HP Image Zone Express

Use the HP Image Zone Express software program to manage your photos, scanned images, and video clips. It has all the tools you need for viewing, organizing, editing, printing, sharing, and protecting digital images.

To open HP Image Zone Express:

- Click the **HP Image Zone Express** icon on your desktop.

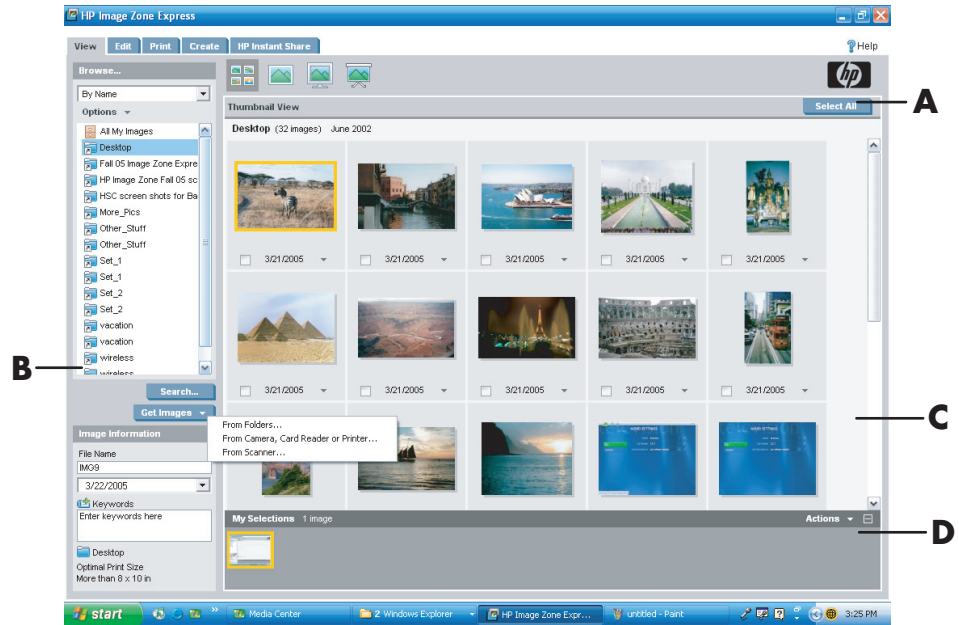
Or

- Click **Start** on the taskbar, **All Programs**, **HP**, and **HP Image Zone Express**.



- A** Function screen tabs and different view buttons for images in the work area.
- B** Displays shortcuts to recently used images and current images in the selection tray.
- C** Work area. Shows images on the PC.
- D** Selection tray.

The HP Image Zone Express window opens.



Click a tab at the top of the application window (**A**) to choose the desired function screen, as described in the following list.

**View** Click this tab to find, view, and manage single or multiple photos or video clips. At the top of the control area (**B**), click **All My Images** to view all your images, or choose **Get Images** to browse for images. To select the images that you want to print or use, click the image (or images) in the work area (**C**), and it appears in the selection tray (**D**). The selection tray images appear under every tab. For more information, see "View and select images" in Help.

**Edit** Click this tab to make changes, such as crop, resize, and red eye removal, to the images you placed in the selection tray. For more information, see "Edit images" in Help.

**Print** Click this tab to print photos using the images in the selection tray. For more information, see "Print images" in Help.

**Create** Click this tab to create and to print album pages using the images in the selection tray. For more information, see "Create with your images" in Help.



**HP Instant Share** Click this tab to share photos with family and friends. Using HP Instant Share, you can create an e-mail, select the pictures to include, and then send your message. HP Instant Share creates thumbnails of your images that the recipients can view immediately in the message instead of opening a large e-mail attachment. To view the original photo, they can click a thumbnail in their message, which links them to a secure Web page. On the Web page, they can see the photos, order prints (if the service is available in your country/region), save the images to their PC, and other tasks. For more information, see "Use HP Instant Share" in Help.

---

**NOTE:** You must be connected to the Internet to use the HP Instant Share feature.

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For more information on using HP Image Zone Express, click the **Help** link.



# Playing CDs and DVDs

Your PC includes software that lets you play music CDs and DVD movies (select models only). This section describes how to:

- Play music CDs using Windows Media Player, or play music CDs or DVDs with iTunes.
- Play DVD movies using Windows Media Player or InterVideo WinDVD (select models only).
- Play video CDs (VCD) with InterVideo WinDVD or Windows Media Player.

## Playing Music CDs with iTunes

You must have either a CD or DVD drive.

- 1** Insert the music CD into your CD or DVD drive.
  - The iTunes window opens. If the Audio CD wizard window opens, choose **Play Audio CD using iTunes** from the list. You may have to scroll down in the window to see iTunes.

Or

- If the iTunes window does not automatically open, click **Start** on the taskbar, choose **All Programs**, click **iTunes**, and then click **iTunes**.

- 2** The music CD automatically begins to play.

Or

Click the CD in the source list, and then click the **Play** button in the upper-left corner of the iTunes window. To play a particular song, double-click the song name (or track number).

---

**NOTE:** If you do not have an Internet connection, your CD is listed as *Audio CD* on the source list, and your song names are listed as track numbers.

---

For more information on using iTunes, click the **Help** menu in the iTunes menu bar. For help online, go to:

**<http://www.hp.com/music/>**

## Playing CDs and DVDs with Windows Media Player

Your PC must have a DVD drive to play DVD movies.

- 1 Insert the music CD or DVD movie into the drive.
  - The Windows Media Player window opens. If the wizard window opens, select **Windows Media Player** from the list. You may have to scroll down in the window to see Windows Media Player.
- Or
  - If the Windows Media Player window does not automatically open, click **Start** on the taskbar, choose **All Programs**, and then click **Windows Media Player**.
- 2 To play the CD or DVD, use the playback buttons in the Windows Media Player window. To play a particular track, double-click the title (or track number) in the Playlist. You can also control playback by using the media control buttons on the keyboard (select models).

For more information on using Windows Media Player, click the **Help** menu in the Windows Media Player menu bar. If necessary, first display the menu bar by clicking the **up arrow** icon in the upper-left corner of the Windows Media Player window.

## Playing DVD Movies with InterVideo WinDVD

The InterVideo WinDVD program uses a DVD drive (select models only) to play DVD movies.

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**NOTE:** Most DVD movies are localized to geographical countries/regions. See "Using country/region codes" on page 48.

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- 1 Insert a DVD disc into the DVD drive.

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**NOTE:** On a double-sided DVD, read the text around the inner hole of the disc to determine which side (A versus B or Standard versus Widescreen) to play. Place the disc in the tray with the label facing up for the side you want to play.

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**2** Close the disc tray by gently pushing the tray into the PC.

The movie plays in its own resizable video window, and the WinDVD control panel appears. If the Play DVD movie wizard window opens, select **Play DVD movie using InterVideo WinDVD** from the list. You may have to scroll down in the window to see it.

Or

If the program does not automatically open:

- a** Click **Start**, choose **All Programs**, choose **InterVideo WinDVD**, select **InterVideo WinDVD Player**, and then click **InterVideo WinDVD**.
- b** Use the playback buttons on the control panel to view the movie.

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**NOTE:** To see what a button does on the control panel, place the mouse pointer on the button; the button title appears onscreen.

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**NOTE:** If you are playing a movie full screen and the WinDVD control panel is hidden, you can redisplay it by clicking anywhere in the video window.

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To use the WinDVD control panel:

- To move the WinDVD control panel, place the mouse pointer on the panel (but not on a button), and drag it to the desired location on the screen.
- To resize the video window when it is not full screen, place the mouse pointer on a window corner and drag the border.

Or

Click the **Full Screen** button in the upper-right corner of the WinDVD control panel.

- For information on the InterVideo WinDVD software, refer to the online Help within the program by clicking the **?** (question mark) icon in the WinDVD control panel.



## Using country/region codes

Most DVD discs have country/region codes embedded in the disc data that limit where the DVD movie can be played.

The country/region number is usually placed over a world globe printed on the DVD packaging and disc. DVDs without country/region codes play on any player or drive in any country/region.




**WARNING: You can change countries/regions only five times before the country/region code locks and becomes permanent. Once the code locks, you can play DVDs from that country/region only. If the country/region code locks, and you need help, contact Support.**

WinDVD is not preset to a particular country/region — the country/region code of the first DVD movie you play determines your DVD country/region.

For example, if you play a DVD with a country/region 1 code, WinDVD sets the current country/region of your DVD player to 1. If you later play a DVD that is coded for a different country/region, WinDVD asks if you want to set this as the current country/region.

## Playing Video CDs (VCD) with InterVideo WinDVD

- 1 Insert your video CD (VCD) into a DVD or CD drive.
- 2 Select **Play DVD movie using InterVideo WinDVD**, and click **OK**.  
Or  
If the program doesn't open, click **Start**, choose **All Programs**, choose **InterVideo WinDVD**, select **InterVideo WinDVD Player**, and then click **InterVideo WinDVD**.
- 3 If you have a dual-language VCD, the sound of one language comes out of the left speaker and the other language comes out of the right speaker. Double-click the **Volume** icon on the taskbar. 
- 4 Under **Volume Control Balance**, move the slider bar all the way to the right or to the left, depending on which language you want to hear.
- 5 Close the Volume Control window.

## Playing Video CDs (VCD) with Windows Media Player

- 1** Insert your video CD (VCD) into a DVD or CD drive.
- 2** Select **Play DVD movie using Windows Media Player**, and click **OK**.  
Or  
If the program doesn't open, click **Start**, choose **All Programs**, and **Windows Media Player**.
- 3** Click **File** on the menu bar at the top, and click **Open**. (If you do not see the menu bar, click the small circle with the up/down arrows in the upper-left corner of the window.)
- 4** Click the **Look In** drop-down arrow and select the drive that has the Video CD.
- 5** Double-click the **MPEGAV** folder.
- 6** Select **Any File (\*.\*)** from the **Files of type** drop-down list.
- 7** Select the file, and click **Open**.
- 8** If you have a dual-language VCD, the sound of one language comes out of the left speaker and the other language comes out of the right speaker. Click **View** on the menu bar, choose **Enhancements**, and select **Graphic Equalizer**.
- 9** Move the **Balance** slider bar all the way to the left or to the right, depending on which language you want to hear.
- 10** Close the Graphic Equalizer window.





# Creating Audio and Data Discs

This chapter contains the procedures you must perform to record (or *burn*) music and data files to recordable CD and DVD discs. It also includes information about labeling your discs using the LightScribe labeling technology included on select models.

For information about recording video files to DVDs, see “Creating Video Discs and Movies” on page 67.

Your PC includes one or more CD, DVD, or combination optical drives capable of recording. Additionally, your PC may include the following software programs for recording to CDs or DVDs:

- iTunes (select models only)
- Windows Media Player
- Sonic MyDVD Plus (select models only)
- Sonic DigitalMedia Plus (select models only)
- Windows XP

These programs include features that enable you to copy, archive, and manage music and data files and then record the files to CDs or DVDs. You can also use iTunes or Windows Media Player to download and copy music files to a portable device or memory card.

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**NOTE:** *Burn* is an industry term used to describe the recording of information onto a DVD or CD. Optical recording uses a laser beam to place information onto the disc, thus the term *burning*.

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## Erasing Rewritable Discs Before Recording

Previously recorded files on CD-RW, DVD-RW, or DVD+RW discs must be erased before recording new files. CD-R, DVD-R, and DVD+R discs cannot be erased.

To erase a rewritable disc in Sonic DigitalMedia Plus:

- 1 Open the DigitalMedia Plus program by clicking **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 2 Click **Tools** and then **Erase Disc**.



- 3 Insert the rewritable disc you want to erase.
- 4 Click the **Quick Erase** or **Full Erase** option, and then **Erase Disc**.

## Working with Audio CDs

Sonic DigitalMedia Plus enables you to create audio CDs that play in your car or home CD player, and on PCs. You can create two main types of music CDs:

- **Uncompressed** — Typical CD format like you would purchase on a commercial CD. This type of CD will hold 10 to 20 songs depending on their length.  
Uncompressed files can be burned on CD-Rs (which play in most home and car stereos, DVD players, and computers) or CD-RWs (which play only in some stereos, DVD players, and computers).  
The procedure for creating this type of CD is described in “Creating audio CDs” on page 54.
- **Compressed** — Files are burned to a disc using a compressed file format (MP3, WMA, or M4A). The smaller file format enables you to fit approximately ten times as many songs onto the disc (depending on length and format).  
Compressed files can be burned to CD-Rs, CD-RWs, DVDs, DVD-RWs, or DVD+RWs (select models only). Compressed files can only be played on computers, CD players, or DVD players that support the *file format* you use to create the disc (MP3 is most commonly supported). For file format compatibility, check the documentation for the device where you intend to play the disc. You may hear a slight loss of sound quality using compressed audio files.  
The procedure for creating this type of CD is described in “Creating jukebox discs” on page 54.

For more compatibility information, see “Disc Features and Compatibility Table” on page 63.

Both Sonic programs create *closed-session* music CDs, which means you must record all music files on one CD in one recording session. Music files can be recorded repeatedly on a rewritable CD-RW disc, but all previously recorded files must be erased first. CD-R discs cannot be erased.

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## Verifying audio disc recorded without errors

When copying or burning audio files to CD, it is recommended that you use Sonic DigitalMedia Plus because it includes a feature that confirms that your disc has been created without errors.

This data verification feature is enabled by default.

To check the status of the write verification feature in DigitalMedia Plus:

- 1 Open the DigitalMedia Plus program by clicking **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 2 Click **Tools** and then **Options**.



- 3 In the Options window, click **Copy**.
- 4 Ensure the **Verify copied data discs** option is checked.
- 5 Click **OK**.

## Audio CD tips

When recording music files, it is important to note that:

- To play your music CD in a home or car stereo, it needs to be recorded as a music CD in CD audio (CDA) format, not as a data CD.
- As you add music files in the recording session, DigitalMedia Plus calculates and displays the amount of recording time available to record additional music files.
- You can't record song titles unless you make an exact copy of a music CD in your collection.
- If your recording fails, manually select a slower recording speed, if available, each time you make a recording. Refer to the Help menu in your selected software program for more information about selecting a slower recording speed.

- If you try to record more than a standard CD can hold, a message displays warning you that all the tracks may not fit on your disc.

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## Creating audio CDs

To create uncompressed audio CDs using Sonic DigitalMedia Plus:

- 1 Open the DigitalMedia Plus program by clicking **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 2 Click the **Audio** tab and then **Audio CD**.
- 3 Do one or more of the following:
  - Click **Add Music** and navigate to music stored on your PC.
  - In the Quick Find panel, click **Scan** to automatically search your PC for songs.
  - Insert a CD and add songs from it.
- 4 Select the songs you want to record, and then click **Add**.
- 5 Click the **Burn** icon when you have added all the audio files to your music CD project.
- 6 When prompted, insert a blank CD-R or CD-RW disc. If you want to play your music CD in your home or car stereo, use a CD-R disc. CD-RW discs may not play in some stereos.
- 7 Click **OK**.



You can get detailed online help by clicking the **Help** menu and then selecting **Help**.

## Creating jukebox discs

To create compressed (jukebox) music CDs or DVDs using Sonic DigitalMedia Plus:

- 1 Open the DigitalMedia Plus program by clicking **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 2 Click the **Audio** tab, and then **Jukebox CD/DVD**.
- 3 Do one or more of the following:
  - Click **Add Music**, and navigate to music stored on your PC.
  - In the Quick Find panel, click **Scan** to automatically search your PC for songs.
  - Insert a CD, and add songs from it.
- 4 Select the songs you want to record, and then click **Add**.
- 5 Click the **Burn** icon when you have added all the audio files to your music CD project.



- 6 When prompted, insert a blank disc.

DVD discs can store significantly more music files than a CD. Jukebox discs can only be played on computers, CD players, or DVD players that support the *file format* you use to create the disc (MP3 is most commonly supported).

For file format compatibility, check the documentation for the device where you intend to play the disc.

- 7 Click **OK**.

You can get detailed online help by clicking the **Help** menu and then selecting **Help**.

---

**NOTE:** DigitalMedia Plus scans for all audio files, even the sounds from your operating system. If you don't want to display some of these sounds, you can select the **Options** icon (wrench). In the Options window, select **Audio**, and then **Quick Find**. Select **Hide Audio Files Shorter Than** (in seconds), and then type the number of seconds, and click **OK**.

---

## Working with Data DVDs and CDs

Unlike audio CDs and jukebox DVDs, data DVDs and CDs can be recorded in multiple sessions.

### Verifying data disc recorded without errors

When copying or burning data files to DVD or CD, it is recommended that you use Sonic DigitalMedia Plus because it includes a feature that confirms that your disc has been created without errors.

This data verification feature is enabled by default.

To check the status of the write verification feature in DigitalMedia Plus:

- 1 Open the DigitalMedia Plus program by clicking **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 2 Click **Tools** and then **Options**.



- 3 In the Options window, click **Data**.
- 4 Ensure the **Verify data written to the disc after burning** box is checked.
- 5 Click **OK**.

## Data disc tips

When storing data files on a disc, it is important to note that:

- You can add new data files to a CD-R, DVD+R or DVD-R in a later recording session, until the disc is full. With DVD+R or DVD-R discs, insert your partially recorded DVD, click the **Wrench** icon to display the Options window, click **Data**, select the first **Write-Once DVD Compatibility** option, and then click **OK**.
- When you record files that have the same name as previously recorded files, Sonic DigitalMedia Plus updates the file and the previous version is overwritten.
- Sonic DigitalMedia Plus allows you to change the names of files you want to record and the files that were previously recorded.
- As you select data files to record to your disc, Sonic DigitalMedia Plus calculates and displays the amount of recording space used on your disc.
- If your recording fails, manually select a slower recording speed, if available, each time you make a recording. Refer to the Help menu in your selected software program for more information about selecting a slower recording speed.



## Creating data discs

To create data CDs or DVDs using Sonic DigitalMedia Plus:

- 1 Open the DigitalMedia Plus program by clicking **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 2 Click the **Data** tab, and then click **Data Disc**.
- 3 Do one or more of the following:
  - Click **Add Data** and navigate to files stored on your PC.
  - In the Quick Scan panel, select a type of file to search for, and then click **Scan** to automatically search your PC for the selected file type.
  - Insert a CD or DVD that contains the file you want to add.
- 4 Select the files you want to record, and then click **Add**.
- 5 To name your disc, highlight **Volume Label**, and then type a name over it. Sonic DigitalMedia Plus assigns a name based on the recording date if you do not type a name.
- 6 Click the **Burn** icon when you have added all the files to your data project.
- 7 When prompted, insert a blank or appendable disc.  
DVD discs can store significantly more files than a CD.
- 8 Click **OK**.



You can get detailed online help by clicking the **Help** menu and then selecting **Help**.

---

**NOTE:** An appendable disc can have additional files added to it, if there is disc space available. Recorded audio CDs are closed-session discs that are not appendable.

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**NOTE:** You can rename your files in the file selection window by selecting and typing over the current name. This does not affect the original files on your hard disk drive.

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**NOTE:** DVD discs can store significantly more files than a CD.

---

## Copying a DVD or CD

Sonic DigitalMedia Plus enables you to make copies of an existing music or data disc. You can configure Sonic DigitalMedia Plus to verify that:

- Data files have been copied without errors by performing the procedure described in “Verifying data disc recorded without errors” on page 55.
- Music files have been copied without errors by performing the procedure described in “Verifying audio disc recorded without errors” on page 53.

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To make a copy of an existing music or data disc using Sonic DigitalMedia Plus:

- 1** Open the DigitalMedia Plus program by clicking **Start**, **All Programs**, **Sonic**, and then **DigitalMedia Home**.
- 2** Click the **Copy** tab, and then **Disc Copy**.
- 3** Insert the CD or DVD you want to copy.
- 4** Insert a blank DVD or CD into the drive.
- 5** Click the **Copy** icon.
- 6** Click **Done** when the recording is complete.

## Archiving Files on a CD or DVD

To make an archive file copy of files stored on your PC using Sonic DigitalMedia Plus:

- 1 Open the DigitalMedia Plus program by clicking **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 2 Click the **Data** tab and then **Easy Archive**.
- 3 Select the path to the files that you want to archive (or click **Browse** to navigate to them).
- 4 Select the type of files you want to add to the archive, or select **All Files in the Selected Path**.
- 5 Place a check mark in the **Only Archive Files Changed Since** box, and select a date to limit the scan to files that have been changed since that date.
- 6 Click **Save**, enter a name for your archive, and then click **OK**.
- 7 Click the **Burn** icon.
- 8 When prompted, insert a recordable disc and then click **OK**.  
If the files do not fit on one disc, you are prompted for additional discs.
- 9 Click **Done** when recording is complete.



For additional information about saving archives on your hard disc drive, or scheduling automatic archives, see the online help.

## Working with Image Files

The Sonic recording programs can convert all the files from a CD or DVD and convert them into a single .iso file, or a series of .gi files (none exceeding 2 GB) known as an *image file*. You can use the image file to reproduce the original disc. Image files are typically used when you need to make multiple copies of the same disc.

---

**NOTE:** Your DVD Writer or CD Writer drive will not copy commercially available DVD movies. Most commercial DVDs are encoded to prevent unauthorized duplication.

---



## Creating an image file

To make an image file using Sonic DigitalMedia Plus:

- 1 Open the DigitalMedia Plus program by clicking **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 2 Click **Copy**, and then click **Save Image**.
- 3 Insert the CD or DVD from which you want to make an image file.
- 4 Click **Browse** to select the location where the image file will be created and choose the image type (**.gi** or **.iso**) to be saved. Click **Save**.
- 5 Click the **Save Image** icon to create the image file.



## Burning from an image file

To burn a CD or DVD from an image file using Sonic DigitalMedia Plus:

- 1 Open the DigitalMedia Plus program by clicking **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 2 Click **Copy** and then **Burn Image**.
- 3 Click **Browse** to select the image file.
- 4 Insert a recordable CD or DVD into the drive.
- 5 Click the **Burn Image** icon.
- 6 Click **Done** when recording is complete.



## Disc Labeling with LightScribe

LightScribe (select models only) is a direct disc labeling technology providing you a simple way to burn precise, silk screen-quality labels. It combines the CD or DVD drive of your PC with specially coated discs (sold separately) and enhanced disc-labeling software.

A LightScribe-enabled CD or DVD disc drive uses the optical laser in the drive to burn a label onto a thin dye coating on the label side of the disc. There is no ink to smear or paper to curl, and there are no adhesives to loosen.

LightScribe media is identified by the LightScribe logo on the retail packaging and on the inner hub area of the disc itself. Your PC may come ready to work with many versions of LightScribe media (select models only); however, as new media versions are introduced you will need to update the driver software for your LightScribe-enabled CD or DVD drive. Get driver updates from the HP Support Web site:

**<http://www.hp.com/support>**

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**NOTE:** LightScribe creates a grayscale image similar to a black-and-white photograph.

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## LightScribe requirements

Burning a label with LightScribe requires three things:

- LightScribe-enabled DVD drive (select models only).
- Labeling software that supports LightScribe.
- LightScribe discs (sold separately).

## Burning a LightScribe label with Sonic Express Labeler

- 1 Click **Start**, **All Programs**, **Sonic**, and then click **Express Labeler**.

---

**NOTE:** You can open Express Labeler from within DigitalMedia Plus by clicking **Tools**, and then **Label Disc**.

---

- 2 In the Step 1: Select Project area, make sure that **Disc Label** is selected.
- 3 In the Step 2: Edit area:
  - a Click **Disc Titles** to display the Edit Disc Title window. Enter text for the title and subtitle.
  - b Click **Tracks** to display the Edit Tracks window. Click **New** to display the Track window. Enter text to identify the first track or file (you can optionally enter artist and date, or length), and then click **OK**.
  - c Repeat the previous step for each track or file on the disc.
  - d Click the left or right arrows next to **Layout** and **Background** to select design elements for the disc. The selections you make are previewed in the disc window.
- 4 When you are satisfied with the appearance of your label, insert the LightScribe media disc (label side down) into the disc drive tray, and then click **Print**.

---

**NOTE:** LightScribe creates a grayscale (monochrome) image similar to a black-and-white photograph.

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- 5 From the Disc Label menu, select **LightScribe 12cm disc**.
- 6 Click **OK** to begin burning the label.

The estimated time to complete the label displays, along with a progress bar to show you the time remaining. You can continue to work on your PC while LightScribe is burning the label.

## Burning a LightScribe label after burning with iTunes

iTunes works with Sonic Express Labeler to allow you to burn labels on a LightScribe audio CD. The playlist you create in iTunes to burn a disc is automatically imported into Express Labeler so that this information is available for you to use on your LightScribe label. To use Express Labeler from iTunes, the music tracks in the playlist you are using must fit on a single CD.

- 1** Click **Start, All Programs, iTunes**, and then click **iTunes** again.
- 2** Burn an audio CD with iTunes. When the burning process is complete, click **Yes** on the Create LightScribe Label window.
- 3** In the Step 1: Select Project area, make sure that **Disc Label** is selected.
- 4** In the Step 2: Edit area:
  - a** Click **Disc Titles** to display the Edit Disc Title window. Enter text for the title and subtitle.
  - b** Click **Tracks** to display the Edit Tracks window. Click **New** to display the Track window. Enter text to identify the first track or file (you can optionally enter artist and date, or length), and then click **OK**.
  - c** Repeat the previous step for each track or file on the disc.
  - d** Click the left or right arrows next to **Layout** and **Background** to select design elements for the disc. The selections you make are previewed in the disc window.
- 5** When you are satisfied with the appearance of your label, insert the LightScribe media disc (label side down) into the disc drive tray, and then click **Print**.

---

**NOTE:** LightScribe creates a grayscale image similar to a black-and-white photograph.

---

- 6** From the Disc Label menu, select **LightScribe 12cm disc**.
- 7** Click **OK** to begin burning the label.

The estimated time to complete the label displays, along with a progress bar to show you the time remaining. You can continue to work on your PC while LightScribe is burning the label.

## Using adhesive disc labels

---



**WARNING:** When labeling your CDs and DVDs, do not use sticky labels. They can cause the disc to play erratically. Instead, write on the disc with a felt-tip pen to label it.

Or, you can create a LightScribe label for your disc if you have a LightScribe optical drive and you use LightScribe media discs. Refer to “Disc Labeling with LightScribe” on page 59.

---

## Compatibility Information

An important feature of a DVD Writer/CD Writer drive is its high level of compatibility with other optical drives and CD and DVD players:

- The CDs that you create play in most home and car stereos and in most computer DVD-ROM and CD-ROM drives.
- The DVDs that you create are compatible with some DVD video players and with most computer DVD-ROM drives.
- CD-R discs are more compatible with home and car stereos than CD-RW discs are.

Your DVD Writer/CD Writer drive is able to read from and record to almost every type of optical disc. Writing speed rates for the DVD Writer/CD Writer drive are fast, allowing quick recording times.

---

**NOTE:** CD-R discs are more compatible with home and car stereos than CD-RW discs.

---

# Disc Features and Compatibility Table

Disc	File type	Can be recorded onto	Plays in PC	Plays in home or car stereo	Plays in home DVD player
<b>CD-ROM</b>	Data	No	Yes	No	No
	Music	No	Yes	Yes	Varies by model
<b>CD-R</b>	Data	Yes	Yes	No	No
	Music	Yes	Yes	Varies by model	Varies by model
<b>CD-RW</b>	Data	Yes	Yes	No	No
	Music	Yes	Yes	Varies by model	Varies by model
<b>DVD-ROM</b>	Data	No	Yes	No	No
	DVD movie	No	Yes	No	Yes
<b>DVD+R and DVD-R</b>	Data	Yes	Yes	No	No
	DVD movie	Yes	Yes	No	Varies by model
<b>Double-Layer DVD+R/ DVD-R</b>	Data	Yes	Varies by model	No	Varies by model
	DVD movie	Yes	Varies by model	No	Varies by model
<b>DVD+RW and DVD-RW</b>	Data	Yes	Yes	No	No
	DVD movie	Yes	Yes	No	Varies by model
<b>VCD</b>	DVD movie	No	Yes	No	Varies by model

**NOTE:** Some PCs come with the Double-Layer DVD Writer. It supports single-layer and double-layer DVD media. Double-Layer technology gives you greater capacity and allows you to store up to 8 GB\* of data on double-layer DVD+R or DVD-R media.

Double-layer is a new technology. Double-layer media compatibility will vary widely with some home DVD players and DVD-ROM drives.

\*1 GB is defined as 1 billion bytes. 1 GB = 1 billion bytes when referring to hard disk drive capacity. Actual formatted capacity is less.

For the latest disc compatibility information for your PC, go to the HP Support Web site at:

**<http://www.hp.com/support>**

**NOTE:** Double-layer DVD technology is supported by select models only.

**NOTE:** The Sonic recording programs support the double-layer technology.

# Optical Drive Quick Reference Table

Optical drive can:	CD-ROM	CD-RW	DVD-ROM	DVD+RW/+R DVD-RW/-R	Double-Layer DVD	Combo CD-RW/DVD
Read CDs, CD-Rs, and CD-RWs	Yes	Yes	Yes	Yes	Yes	Yes
Read DVDs	No	No	Yes	Yes	Yes	Yes
Read data on a CD	Yes	Yes	Yes	Yes	Yes	Yes
Play music	Yes	Yes	Yes	Yes	Yes	Yes
Record data or music to disc for storage or backup	No	Yes	No	Yes	Yes	Yes
View DVD movies	No	No	Yes	Yes	Yes	Yes
Record DVD movies	No	No	No	Yes	Yes	No
Play games	Yes	Yes	Yes	Yes	Yes	Yes

# Software Quick Reference Table





Your PC includes a number of software programs that:




- Record and play CDs.
- Record data CDs.
- Import and edit video files.
- Record video CDs and DVDs.
- Organize digital media files.

The following table describes the functionality specific to each of these programs. Use it to determine which program to use to perform a task.

Note that some programs listed may not be included with your model, and that this is not a complete list of all included software.

To open any of these programs, click **Start** on the taskbar, choose **All Programs**, select the program folder (for example, **Sonic**), and then click the program name to open the software.

With this program:	You can:
InterVideo WinDVD Player (select models only) 	<ul style="list-style-type: none"><li>• Play DVD movies and video CDs (VCDs).</li></ul>
iTunes (select models only) 	<ul style="list-style-type: none"><li>• Play music CDs, MP3s, and other audio files.</li><li>• Record music files.</li><li>• Record a copy of an existing music or data CD to use on the PC.</li><li>• Organize digital files into a library for recording or listening.</li></ul>
muvee autoProducer (select models only) 	<ul style="list-style-type: none"><li>• Add your own style to your movies with music, pictures, titles, scene transitions, and captions.</li><li>• Edit your home movies.</li></ul>
RealPlayer (select models only) 	<ul style="list-style-type: none"><li>• Play music CDs, MP3s, and other audio files.</li><li>• Play DVD movies. (RealPlayer can play DVDs only if another DVD player program, such as InterVideo WinDVD, is installed.)</li><li>• Play video CDs.</li><li>• Record music files.</li><li>• Organize digital files into a library for recording or listening.</li></ul>

With this program:	You can:
<p>Sonic DigitalMedia Plus (select models only)</p> 	<ul style="list-style-type: none"> <li>• Record data and music files.</li> <li>• Record a copy of an existing music or data CD to use on the PC.</li> <li>• Create customized music CDs from CDs in your collection, or from .wav, .mp3, or .wma files. These CDs can be played in your home or car stereo.</li> <li>• Copy and share data files.</li> <li>• Create archive CDs or DVDs from files on your PC.</li> <li>• Capture (copy) video files.</li> <li>• Has setting for verification that the disc has been created without errors.</li> </ul>
<p>Sonic MyDVD Plus (select models only)</p> 	<ul style="list-style-type: none"> <li>• Record data and movie files.</li> <li>• Record a copy of an existing DVD to use on the PC.</li> <li>• Copy and share video files.</li> <li>• Capture (copy) video files.</li> </ul>
<p>Windows Movie Maker 2.0</p> 	<ul style="list-style-type: none"> <li>• Import audio, video, and other media files from a videotape, an audiotape, a Web camera, or a television broadcast.</li> <li>• Record audio and video files to create a video project that becomes a Windows Media source file with a .wmv extension.</li> <li>• Edit and preview files.</li> <li>• Send a movie in an e-mail or upload it to a Web server.</li> <li>• Add music files (.mp3).</li> <li>• Import audio files such as .mp3, .asf, or .wma; video files such as .wmv, .asf, .avi, or .mpg; or image files such as .jpg or .gif.</li> <li>• Create .avi and .wmv (Windows Media Video) files.</li> </ul>

---

**NOTE:** You may have a software update CD included with your PC. You may need to install this CD before using the DVD Writer/CD Writer drive. To do this, follow the installation instructions that came with the CD.

---



# Creating Video Discs and Movies

Your PC may include the following movie-making programs, depending on your model:

- Sonic MyDVD (select models only)
- Sonic DigitalMedia Plus (select models only)
- Windows Movie Maker
- muvee autoProducer (select models only)

These programs all capture, edit, and manage your home video files, while allowing you to add your own personal touch to your home movies. They come installed on your PC and can be started by clicking **Start** and then **All Programs** on your desktop.

---

**IMPORTANT:** HP supports the lawful use of technology and does not endorse or encourage the use of our products for purposes other than those permitted by copyright law.

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## Before You Begin Capturing Video

You can capture (copy) video files to your hard disk drive by using the Sonic MyDVD program. Among the devices supported by Sonic MyDVD are analog video devices, digital camcorders, and Web cameras. Use your composite or S-video inputs (input connectors vary by model) to capture video from a VCR or an analog video camera.

To capture video files, you need to:

- 1** Connect your video source device according to the device's instructions.
- 2** Turn your device on and set it to playback mode.
- 3** Make sure Sonic MyDVD can detect your digital or analog device.
- 4** If your PC has multiple video devices connected, they all appear on the Capture screen. You must select the video source you would like to use.

---

**NOTE:** You may need to turn your digital video device off and on again for the program to detect it.

---

For more information, click **Start**, **All Programs**, **Sonic**, and then **DigitalMedia Home**. When the program displays, click **Help** and then **Sonic MyDVD Help**.

## Sonic MyDVD Video Projects

A Sonic MyDVD *video project* is a way to group, organize, store, play, and burn related video and still digital files. For example, if you went on a family vacation, you might have digital still and video images, and prints from a film camera. You can transfer all these images onto your PC and organize them into a project. (A scanner is required to transfer printed photos and is not included.)

Projects can remain on your PC for playback and as an archive, and they can be burned to a DVD or VCD disc.

Sonic MyDVD enables you to create video projects using the following interfaces:

- Standard program interface (described beginning in “Creating a Video Project” on page 68).
- Direct-to-Disc Wizards (described beginning in “Creating a Video Project With the Direct-to-Disc Wizards” on page 73).

Note that the Direct-to-Disc Wizards do not include the editing features that are available from the standard interface. You can edit a project created with a wizard before burning it to a disc as described in:

- “Editing the style of a video project” on page 71.
- “Editing movie files” on page 71.

## Creating a Video Project

To create a video project:

- 1** Click **Start**, choose **All Programs**, **Sonic**, and then **DigitalMedia Home**.
- 2** Click the **Video** button to display the Video Guide.
- 3** Click **Create Project**, and then **DVD** or **VCD** depending on the type of project you want to create.

A project named Untitled DVD-Video or Untitled Video CD is created and displayed in the MyDVD project window.

- 4** Click **File** and then **Save** to change the name your project from Untitled to a more descriptive name. After renaming your project, click **Save**.

Continue your project by performing the procedure described in one or more of the following sections:

- “Adding files to a video project” on page 69.
- “Capturing video to a video project” on page 69.
- “Adding slideshows to a video project” on page 70.
- “Adding submenus to a video project” on page 70.

## Adding files to a video project

You can add files to your DVD or VCD video project from:

- An existing DVD or VCD.
- Video files already stored on your PC.
- Video capture from a digital video camera (as described in the next section).


To add files from a DVD, VCD, or from your hard disk drive:

- 1 Click **File, Open**, and then select a video project that you created as described in “Creating a Video Project” on page 68.
- 2 Click **Add Files**.
- 3 Navigate to the folder that contains the video files you want to add or to the media drive that contains the DVD or VCD.
- 4 Select the files you want to add, and then click **Open**. The files are added to the current project and displayed in the project window.

## Capturing video to a video project

You can capture live video or still images by connecting a Web camera or digital video camera to your PC’s USB connector. The video capture is added to your video project and stored in a file on your hard disk drive.


To add a video capture to a video project:

- 1 Click **File, Open**, and then select a video project that you created as described in “Creating a Video Project” on page 68.
- 2 Connect your digital camera to the USB port.
- 3 Click **Capture Video** to display the Capture screen.  
Sonic MyDVD displays the name of the capture device (your camera), the default Capture Type (audio and video), and the default Quality setting (DV format).
- 4 Click **Record Settings** to edit any of these default settings.
- 5 Optionally, set a Capture Length, Chapter Points, or Scene Detection. Click the corresponding **Help** icon to display the online help for each of these features. 
- 6 Click one of the following:
  - **Grab Frame** — The image currently displayed in the Capture window is stored as a picture file (JPG, BMP, GIF, TIF, or PNG format).
  - **Start Capturing** — Starts a video capture (MPG format).
  - **Stop Capturing** — Manually stops the capture if you did not set a capture length (step 5).
- 7 In the Save As dialog box, name the captured file, and select the file format and the folder where you want to save it. Click **Save**.
- 8 Click **OK** to return to the project window.  
The file is stored on your hard disk drive and added to the current project.

## Adding slideshows to a video project


You can create a *slideshow* (a series of still images displayed automatically) by adding existing still photos to your project or by capturing them with a connected digital video source.

To add a slideshow to a video project:

- 1 Click **File, Open**, and then select a video project that you created as described in “Creating a Video Project” on page 68.
- 2 Do one or more of the following:
  - Add existing picture files as described in “Adding files to a video project” on page 69.
  - Capture still images as described in “Capturing video to a video project” on page 69.
- 3 Click **Options** to set the slide duration, or to add a background audio track. Online help is available for these features by clicking the **Help** icon. 
- 4 Click **OK** to add the slide show to the video project.

## Adding submenus to a video project

Each *project element* (video file, still picture file, and slide show) that you add to a video project is represented in the main project window.

Each menu displays six items before a new menu is automatically created and linked to the previous menu by a **Next** button. 

You can manually add submenus to a project and use them to organize topics associated with the theme of your project. For example, if the project is your child’s soccer game, the video files of the game could be the main menu elements, and you could insert a submenu that contains interviews with your son and his teammates.

To add a submenu to a video project:

- 1 Click **File, Open**, and then select a video project that you created as described in “Creating a Video Project” on page 68.
- 2 Click **New Sub-Menu**. A submenu called Untitled Menu 0 is added to the first menu that has less than six project elements.
- 3 Click the submenu name (**Untitled Menu 0**), and type an appropriate name for the menu (for example, *Interviews* using the previous example).
- 4 Double-click the new submenu, and do one or more of the following:
  - Add existing picture files as described in “Adding files to a video project” on page 69.
  - Capture still images as described in “Capturing video to a video project” on page 69.

## Editing the style of a video project

You can change the style of a number of elements within your video project. The elements include:

- Background color and graphics on the menus and submenus.
- Button styles.
- Background music.
- Text format (font, color, and size).
- Import custom styles.

To edit the look of a video project:

- 1 Click **File, Open**, and then select a video project that you created as described in "Creating a Video Project" on page 68.
- 2 Click **Edit Style**.
- 3 In the Edit Style dialog box, change any of the previously mentioned elements, and then click **Apply To All Menus** or **Apply To This Menu**.



## Editing movie files

After you capture or import video files, you can edit them using Sonic MyDVD to:

- Add additional files.
- Add background music.
- Search for specific scenes.
- Delete scenes.
- Add transition effects between scenes.
- Superimpose colors, themes, and effects over video scenes.
- Superimpose text effects over video scenes.

To edit your video files:

- 1 If your project is already open, click **Edit Movie** and skip to step 4.
- 2 Click **Start, All Programs, Sonic**, and then **DigitalMedia Home**.
- 3 Click the **Video** tab, and then **File, New Project** or **Open Existing Project**.
- 4 If you have already captured video for this project, they appear along the bottom as a storyboard. If you have video files on your hard disk drive you would like to add to this project, click **Add Files**.



- 5 Click one of the four tabs (**Fades & Dissolves**, **Filters**, **Text**, or **Themes and backgrounds**) next to the preview screen.



- 6 Drag and drop any of the effects over scenes (or between them for transitions) in the storyboard.
- 7 Click **OK** to save the edits.

For more information about any of the editing features, click **Help** and then **Sonic MyDVD Help** from within the Edit window.

## Burning a video project to disc

After you are satisfied with the contents and style of your video project, you can burn it to a DVD or VCD disc as follows:

- 1 Click **File, Open**, and then select a video project that you created as described in "Creating a Video Project" on page 68.
- 2 Save the file if you have made changes.
- 3 In the Quality fields, set the recording quality and the DVD or VCD type:
  - The quality settings range from **HQ** (the highest quality, but uses the most disc space), to **EP** (lowest quality, but you can fit more files).  
As you select different quality settings, the disc space remaining indicator displays how much blank space there is on the disc for this mode.
  - The DVD formats include **2xDVD (8.5GB)** (Doublelayer), **DVD (4.7GB)** (the default setting), **DVD-RAM (2.6GB)**, and **DVD (1.4GB)**.  
Some of these formats may not be supported by your model of PC.
- 4 Insert the selected type of disc into the appropriate drive tray, close it, and click **Burn**.



For detailed information about DVD and VCD recording quality and time, see:

- "Video Quality and Disc Size" on page 74.
- "DVD Recording Time" on page 75.


# Creating a Video Project With the Direct-to-Disc Wizards

Sonic MyDVD includes Direct-to-Disc Wizards that guide you through the steps you must complete to create a DVD or VCD *video project*. A video project is a way to group, organize, store, play, and burn related video and still digital files.

- 1 Connect your digital camcorder or Web camera to your PC.
- 2 Click **Start**, choose **All Programs**, **Sonic**, and then **DigitalMedia Home**.
- 3 Click the **Video** button and then **Direct-to-Disc**.
- 4 Click **DVD** or **VCD** depending on the type of project you want to create. The Direct-to-VCD or Direct-to-DVD Wizard displays.
- 5 Click **Edit Style**, and edit any of the following elements:
  - Background color and graphics on the menus and submenus
  - Button styles
  - Background music
  - Text format (font, color, and size)
  - Custom styles

Alternately, you can click **No Menus** in the Direct-to-Disc Wizard if you do not want to be able to select from multiple files in the project.

- 6 Type a name for your project in the project name field.
- 7 Click one of the following:
  - **Record to DVD** (or **Record to VCD** if you are creating a VCD project) — Select the device, number of copies, and write speed.
  - **Record to hard disk** — The video capture is stored by default in the My DVDs folder. Click **Location** if you want to select a different folder.
- 8 Click **Next**. The Capture screen displays.

Make sure the output from your digital camcorder appears in the Preview window. If it does not, double-check your connections and make sure your camera is in playback mode.
- 9 Click **Record Settings** to edit any of the default settings.
- 10 Optionally, set a capture length, chapter points, or scene detection. Click the corresponding **Help** icon to display the online help for each of these features. 
- 11 Click one of the following:
  - **Grab Frame** — The image currently displayed in the Capture window is stored as a picture file (JPG, BMP, GIF, TIF, or PNG format).
  - **Start Capturing** — Starts a video capture (MPG format).
  - **Stop Capturing** — Manually stops the capture if you did not set a capture length (step 10).
- 12 A confirmation message displays stating the disc or file was created successfully. Click **OK**.

Note that the Direct-to-Disc Wizards do not include the editing features that are available from the standard interface. You can edit a project created with a wizard before burning it to a disc as described in:

- “Editing the style of a video project” on page 71.
- “Editing movie files” on page 71.

## Video Quality and Disc Size

Sonic MyDVD includes four DVD video quality (bit-rate) settings, and a Fit-to-DVD option that can be applied to a video project or to individual movie files. The DVD quality settings are:

- **HQ (High Quality)** — Best audio and video quality available, but requires the most disc space per second of video. Good choice for video files that contain high-speed action (for example, motor sports). High Quality is the default setting for new projects.
- **SP (Standard Play)** — Good audio and video quality with most video sources.
- **LP (Long Play)** — Fits approximately twice as much video onto a DVD as HQ. Not recommended when the original video is low-quality or noisy.
- **EP (Extended Play)** — Fits the most video onto a DVD, but video quality is low. Not recommended unless the original video is very good quality.
- **Fit-to-DVD** — (Available only with upgrade to MyDVD Deluxe) As you add more content to the project, MyDVD reduces the project quality automatically to fit the selected disc size.

---

**NOTE:** VCDs have a fixed bit rate that delivers one quality level. You can fit approximately 1 hour of video on a VCD (the recording time is reduced if you use animated menu buttons or backgrounds).

---

---

**NOTE:** You can record the same file on a disc at each different quality level to compare the results.

---



# DVD Recording Time

The following table lists the approximate DVD-Video recording time for different disc sizes at different video quality settings (your DVD recorder may not support all these disc sizes).

Video quality	Audio format	Estimated time per disc size			
		8.5 GB	4.7 GB	2.6 GB	1.4 GB
HQ	Dolby Digital	130 min.	70 min.	40 min.	20 min.
	PCM	110 min.	60 min.	30 min.	15 min.
SP	Dolby Digital	210 min.	120 min.	65 min.	35 min.
	PCM	160 min.	95 min.	50 min.	25 min.
LP	Dolby Digital	310 min.	180 min.	100 min.	50 min.
	PCM	215 min.	125 min.	65 min.	35 min.
EP	Dolby Digital	415 min.	240 min.	130 min.	70 min.
	PCM	265 min.	150 min.	85 min.	45 min.

- The video quality depends on PC speed and graphics processing abilities. Some PCs may be unable to capture video at the HQ setting.
- These are estimated recording times. The maximum duration is reduced if you use animated menu buttons or backgrounds.
- To choose the audio format, see the online Help.
- Your version of MyDVD may not support Dolby Digital audio. See the online Help for details.



# Getting Help

## Finding Onscreen Guides

The User's Guides folder (select models only) in the All Programs menu contains any onscreen guides included with your PC.

To see the items in the Documentation folder:

- 1 Click **Start** on the taskbar.
- 2 Choose **All Programs**.
- 3 Choose **User's Guides**.
- 4 Click an item to view it or use it.

---

**NOTE:** If there are no guide titles listed in the folder, your PC has no onscreen guides.

---

## Finding Guides on the Web

You can find guides and information for your PC using the Internet to access a Support Web site.

To view information for your PC, go to the Support Web address listed in the *Warranty and Support Guide*, and search for your product name and number. The product number is on the lower front of the PC chassis.

---

**NOTE:** Information and guides are associated with specific PC model numbers. Some models do not have guides or manuals available on the Web site.

---

## Using the Onscreen Help and Support Center

Information about your PC is in the onscreen Help and Support Center (select models only). Here you can find links to driver updates, access to technical support options, and information about commonly asked questions.

To open the Help and Support Center:

- Press the Help button (select models only) on your keyboard.

Or

- Click **Start** on the taskbar, and choose **Help and Support**.

## Using Compaq Connections

Compaq Connections (select models only) is an Internet-based service provided by HP to bring you important information for your PC:

- Product notice
- System updates
- Tip
- Special offers for your PC

Messages arrive while you're connected to the Internet and may display an alert or a notice on your desktop. You can view messages as they arrive or read them later.

Most Support updates delivered by Compaq Connections messages are also available to you through the Support Web site under the information for your PC model.

### Getting messages

After you view or close a message, it will not automatically display again.

To read a previously received message, open Compaq Connections:

- 1 Click **Start** on the taskbar.
- 2 Choose **All Programs**.
- 3 Choose **PC Help & Tools**.
- 4 Choose **Compaq Connections**.

- 5 Click **Compaq Connections** again. Compaq Connections displays.
  - If Compaq Connections has been activated on your system, click **View messages** to view a list of previously received messages. To read a message, double-click the message title in the window. You can exit this window, and Compaq Connections remains active.
  - If Compaq Connections has not been activated on your system, the screen contains an **Activate** button to activate the service. Click **Activate** to start the service and view a list of previously received messages.

## Turning off messages

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**NOTE:** You cannot receive Compaq Connections messages, including important Support messages that may be critical to the operation of your PC, while the service is off.

---

To turn off the Compaq Connections Service:

- 1 Click **Start** on the taskbar.
- 2 Choose **All Programs**.
- 3 Choose **PC Help & Tools**.
- 4 Choose **Compaq Connections**.
- 5 Click **Compaq Connections** again. Compaq Connections displays.
- 6 Click **Choose preferences** and then **Deactivate** to deactivate the service. The service is turned off until you reactivate it.

## Reactivating messages

When you reactivate the Compaq Connections service, the service runs whenever you are connected to the Internet, and you automatically receive messages as they become available.

To turn on the service:

- 1 Click **Start** on the taskbar.
- 2 Choose **All Programs**.
- 3 Choose **PC Help & Tools**.
- 4 Choose **Compaq Connections**.
- 5 Click **Compaq Connections** again. Compaq Connections displays.
- 6 Click **Activate** to reactivate the service.

## Using PC Help & Tools

The PC Help & Tools folder (select models only) in the All Programs menu contains special utilities for PC owners such as support information and programs.

To see the items in the PC Help & Tools folder:

- 1** Click **Start** on the taskbar.
- 2** Choose **All Programs**.
- 3** Choose **PC Help & Tools**.
- 4** Click an item to view it or use it.

# Index

## A

- adding files, video projects 69
- adhesive disc labels 62
- antivirus, installing program 5
- appending discs 56, 57
- archive files 58
- audio
  - connectors, retasking, multi-streaming 20
- audio wizard 18

## B

- bit rate
  - DVDs 74
  - VCD 74
- burning
  - audio and data files 51
  - CDs
    - archive files 58
    - closed-session 53
    - copying 57
    - data files 56
    - image files 59
    - jukebox 54
    - tips about 53
    - verifying no errors 53, 55
  - data discs 53, 55

## DVDs

- archive files 58
- bit rate 74
- Fit-to-DVD setting 74
- image files 59
- overview 72
- quality settings 74
- verifying no errors 53, 55
- video quality 74
- labels, LightScribe 59
- multiple sessions 55
- tips, data discs 56
- VCDs 72
- video projects to disc 72

## buttons

- Compaq 7
- customizing 10
- E-Mail 8
- Help 7
- Mute 9
- On 3
- Power 3
- Search 8
- special keys 7
- Standby 7

## C

- cables, for connecting a TV 29
- capturing video
  - in video projects 69
  - requirements 67
- card reader, memory 25
- carpal tunnel syndrome 1

- CDs
  - archive files 58
  - burning tips
    - audio discs 53
    - data discs 56
  - closed-session 53
  - compressed 54
  - copying 57
  - data 56
  - erasing rewritable 52
  - image files 59
  - jukebox 54
  - verifying data integrity 53, 55
- chassis, symbols 2
- closed-session burning 53
- Compaq keyboard button 7
- components 3
- compressed CDs 54
- connecting
  - a TV 29
  - multi-channel speakers
    - 3-connectors 12
  - multi-channel speakers
    - 6-connectors 15
- connectors
  - PC back 2
  - symbols on chassis 2
- copying CDs and DVDs 57
- country/region codes 48
- creating
  - CDs 51, 59
  - compressed CDs 54
  - data CDs and DVDs 56
  - DVDs 59, 72
  - image files 59
  - jukebox CDs 54
  - music CDs 54
  - VCDs 72
- customizing keyboard buttons 10

## D

- data
  - burning in multiple sessions 55
  - CDs and DVDs 56
  - files
    - archiving 58
    - burning tips 56
    - verifying integrity 56
- desktop 6

- digital images, managing 41
- digital picture 25, 41
  - work area 42
- Direct-to-Disc wizards (MyDVD) 68, 73
- disconnecting TV 34
- discs
  - drive compatibility 62
  - erasing rewritable 52
  - features and compatibility 63
  - labeling
    - adhesive 62
    - after burning with iTunes 61
    - with LightScribe 61
- Documentation folder 77
- double-sided DVD 46
- drive
  - HP Personal Media Drive 35, 38
- driver updates, LightScribe 59
- DVD player, multi-channel audio 14
- DVDs
  - archive files 58
  - burning to disc 72
  - copying 57
  - data 56
  - data discs, burning tips 56
  - erasing rewritable 52
  - image files 59
  - movies, creating 67
  - quality settings 72
  - recording time 75
  - supported formats 71
  - verifying data integrity 53, 55

## E

- editing
  - video files (MyDVD) 71
- e-mail
  - keyboard button 8
- equalizer
  - Sound Effect Manager (6-connector) 16
  - Sound Effect Manager (6-connector, Multi-streaming Audio) 19
- erasing rewriteable discs 52
- errors
  - reducing recording speed 53
  - verifying data integrity of data discs 53, 55



## **F**

- file formats, video 69
- files
  - adding to partially recorded discs 56
  - archive 58
  - compressed audio 52
  - image 59
  - M4A 52
  - MP3 52
  - supported video formats 69
  - verification of data 56
  - verify integrity of backups 56
  - WMA 52
- Fit-to-DVD setting (MyDVD) 74

## **G**

- gallery 42

## **H**

- hard disk drive
  - connecting an HP Personal Media Drive to the PC 36
- Help
  - onscreen Help and Support 78
- Help and Support 78
- Help button 7
- HP Image Zone
  - tab definitions 42
- HP Image Zone Express 41
- HP Organize 6
- HP Personal Media Drive 35
  - activity and power lights 37
  - automatic on and off feature 36
  - disconnecting the drive 39
  - inserting a drive 36
  - location and drive letter 37
  - storing files 38

## **I**

- image files 58, 59
- installing software programs 5
- Internet
  - finding an ISP 4
  - keyboard button 8
  - organizing destinations 6
  - signing up with an ISP 4

## **iTunes**

- features 65
- labeling with LightScribe 61
- playing music CDs 45

## **J**

- jukebox CDs 54

## **K**

- keyboard
  - customizing buttons 10
  - types of buttons 7
  - using 7

## **L**

- labeling discs
  - adhesive labels 62
  - burnt with iTunes 61
  - with LightScribe 59
- LightScribe
  - compatible media 59
  - disc labeling 59
  - driver updates 59
  - labeling iTunes discs 61
  - requirements 60

## **M**

- M4A files 52
- manuals, on the Web 77
- memory card reader
  - card types 25
  - using 25
- microphone
  - using with multi-channel speakers 13
- monitor 3
- movie making programs 67
- MP3 files 52
- Multi-channel Sound Manager 12
- multi-channel speakers 11
  - connecting 3-connectors 12
  - connecting 6-connectors 15
  - selecting for 3-connector PC 13
  - selecting for 6-connector PC 17, 19
  - selecting for 6-connector PC (Multi-streaming Audio) 19
  - using a microphone 13

- music
  - playing with iTunes 45
  - playing with Windows Media Player 46
- music button 7
- music CD tips 53
- Mute button 9
- muvee autoProducer, features 65
- MyDVD see: Sonic MyDVD

## O

- online manuals 77
- onscreen guides 77
- optical drive quick reference 64
- organizing Internet links and the PC 6

## P

- PC
  - organizing information 6
  - setting it up 1
  - transferring files and settings to new PC 5
  - turning on 3
  - viewing PC image on TV 30
- PC Help & Tools 79
- peripherals 3
- Pictures (Photos) button 7
- pictures, managing 41

## Q

- quality settings, recording DVDs 72

## R

- RealOne Player, features 65
- Recording
  - configuring Realtek HD Sound Effect Manager, 20
- recording
  - CDs, VCDs, and DVDs see: burning time
  - DVDs 75
  - for each disc size 75
  - VCD 74
- repetitive strain injury (RSI) 1
- retasking
  - audio connectors 18
  - mult-streaming audio 20
- rewriteable discs, erasing 52

## S

- Safety & Comfort Guide 1
- safety warnings 1
- setting up PC 1
- shortcut icons 6
- slideshows in MyDVD 70
- software
  - installing 5
- software programs
  - iTunes 65
  - movie making 67
  - Sonic Digital Media Plus 67
  - Windows Movie Maker 2.0 66
  - WinDVD Player 65
- Sonic
  - online help 70
  - recording programs 70
- Sonic Digital Media Plus see: Sonic MyDVD
- Sonic MyDVD
  - default verify data setting 53, 55
  - Direct-to-Disc wizards 68, 73
  - editing video files 71
  - erasing discs 52
  - online help 70
  - verifying data feature 55
  - video
    - projects 68
    - quality 74
    - settings (quality) 75
- sound connectors 11
  - 3-connectors PC 12
  - 6-connectors PC 14, 16
- Sound Effect Manager 16
  - audio wizard 18
  - retasking connectors 18
- sound manager, multi-channel, 3-connectors 12
- sound manager, multi-channel, 6-connectors 16
- speaker system 11
- speakers 11
  - multi-channel 11
- special offers 78
- Standby button 7
- storing data files 56
- sub-menus in video projects 70
- Support
  - messages 78

- supported
  - DVD formats 71
  - video file formats 69
- symbols on chassis 2
- system updates 78

## **T**

- television, viewing PC image on a TV 29
- transferring information to your new PC 5
- turning on PC
  - first time 3
- TV
  - connecting 29
  - disconnecting 34
- TV-out 29
  - cables 29
  - connecting a TV set 29
  - disabling TV option 32
  - viewing PC image on TV 30

## **U**

- Updates from HP, using 78
- updates, LightScribe drivers 59
- updating, system 78
- USB
  - connecting an HP Personal Media Drive to the PC 35
- User button 7
- user interfaces 68

## **V**

- VCD
  - bitrate 74
  - burning 74
  - playing with Windows Media Player 49
  - playing with WinDVD 48
  - recording time 74
- verify copied data setting 56
- video
  - capturing 67, 69, 73
  - DVD recording times 75
  - editing
    - files (MyDVD) 71

- projects
  - background music 71
  - burning to disc 72
  - button styles 71
  - capture length 69
  - capturing video 69
  - chapter points 69
  - custom styles 71
  - Direct-to-Disc wizards 73
  - editing 71
  - files (adding) 69
  - MyDVD 68
  - scene detection 69
  - searching for scenes 71
  - slideshows 70
  - sub-menus 70
  - supported file formats 69
  - text formatting 71
  - transition effects 71
  - user interfaces 68
  - quality settings (MyDVD) 75
  - supported DVD formats 71

- video button 7
- Video CDs
  - playing with Windows Media Player 49
  - playing with WinDVD 48
- viewing onscreen guides 77
- volume
  - controls 9

## **W**

- web guides 77
- Windows Media Player
  - play music CDs 46
  - playing video CDs 49
- Windows Movie Maker 2.0, features 66
- WinDVD 14
  - control panel 47
  - playing DVD movies 46
  - playing video CDs 48
- WinDVD Player, features 65
- wizard
  - audio for Sound Effect Manager 18
- WMA files 52
- working in comfort 1

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