Getting Started Guide
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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.
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.

<table>
<thead>
<tr>
<th>Connector</th>
<th>Connector symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="" alt="Mouse (PS/2 connector)" /></td>
<td><img src="" alt="Mouse (PS/2 connector)" /></td>
<td>Mouse (PS/2 connector)</td>
</tr>
<tr>
<td><img src="" alt="Keyboard (PS/2 connector)" /></td>
<td><img src="" alt="Keyboard (PS/2 connector)" /></td>
<td>Keyboard (PS/2 connector)</td>
</tr>
<tr>
<td><img src="#" alt="Universal Serial Bus (USB) for mouse, keyboard, digital cameras, or other devices with USB connectors" /></td>
<td><img src="#" alt="Universal Serial Bus (USB) for mouse, keyboard, digital cameras, or other devices with USB connectors" /></td>
<td>Universal Serial Bus (USB) for mouse, keyboard, digital cameras, or other devices with USB connectors</td>
</tr>
<tr>
<td><img src="" alt="Printer (parallel)" /></td>
<td><img src="" alt="Printer (parallel)" /></td>
<td>Printer (parallel)</td>
</tr>
<tr>
<td><img src="#" alt="Monitor" /></td>
<td><img src="#" alt="Monitor" /></td>
<td>Monitor</td>
</tr>
<tr>
<td><img src="#" alt="Serial" /></td>
<td><img src="#" alt="Serial" /></td>
<td>Serial port for some digital cameras or other serial devices</td>
</tr>
</tbody>
</table>

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

### Audio Connectors

<table>
<thead>
<tr>
<th>Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Audio Line Out" /></td>
<td>Audio Line Out (powered speakers)</td>
</tr>
<tr>
<td><img src="image" alt="Audio Line In" /></td>
<td>Audio Line In</td>
</tr>
<tr>
<td><img src="image" alt="Headphones" /></td>
<td>Headphones</td>
</tr>
<tr>
<td><img src="image" alt="Microphone" /></td>
<td>Microphone</td>
</tr>
<tr>
<td><img src="image" alt="FireWire" /></td>
<td>FireWire® (IEEE 1394) for video cameras or other devices with very fast transfer rates</td>
</tr>
</tbody>
</table>
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.

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

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.

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

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

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.

**Using HP products**

HP computers include preloaded software for select HP All-In-One, camera, scanner, and printer peripheral products. Preloaded software simplifies and speeds product setup for HP peripherals. Simply connect the HP peripheral product, turn it on, and your HP PC automatically configures it so it is ready to use.

**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.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Opens</th>
<th>Use it to</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Help and Support icon]</td>
<td>Help and Support (select models only)</td>
<td>View onscreen Help information about your PC.</td>
</tr>
<tr>
<td>![Easy Internet Sign-up icon]</td>
<td>Easy Internet Sign-up</td>
<td>Set up a new or an existing Internet account.</td>
</tr>
<tr>
<td>![HP Image Zone icon]</td>
<td>HP Image Zone (select models only)</td>
<td>Manage and protect your still photos, scanned images, and video clips.</td>
</tr>
<tr>
<td>![HP Organize icon]</td>
<td>HP Organize (select models only)</td>
<td>Organize your PC shortcuts and your favorite Internet destination links.</td>
</tr>
</tbody>
</table>

Using HP Organize software

HP 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. HP Organize makes all your information available with just a few mouse clicks.

HP 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 HP Organize where you can select the search engine you want to use.

To open HP Organize:

Double-click the desktop icon.

Or

1. Click Start on the taskbar.
2. Choose All Programs.
3. Click HP 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.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Moon" /></td>
<td>Standby</td>
<td>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.</td>
</tr>
<tr>
<td><img src="image" alt="User" /></td>
<td>User</td>
<td>Switches between the PC users.</td>
</tr>
<tr>
<td><img src="image" alt="HP" /></td>
<td>HP</td>
<td>Links to an HP Web site.</td>
</tr>
<tr>
<td><img src="image" alt="Help" /></td>
<td>Help</td>
<td>Opens the Help and Support Center.</td>
</tr>
<tr>
<td><img src="image" alt="Pictures" /></td>
<td>Pictures (Photos)</td>
<td>Opens an imaging software program. Can be reconfigured.</td>
</tr>
<tr>
<td><img src="image" alt="Music" /></td>
<td>Music</td>
<td>Starts iTunes or Windows Media Player. Can be reconfigured.</td>
</tr>
<tr>
<td><img src="image" alt="Video" /></td>
<td>Video</td>
<td>Opens video software program. Can be reconfigured.</td>
</tr>
</tbody>
</table>
### Getting Started Guide

<table>
<thead>
<tr>
<th>Icon</th>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Shopping Icon" /></td>
<td>Shopping</td>
<td>Goes to popular Web sites. Can be reconfigured to open a site or software program.</td>
</tr>
<tr>
<td><img src="image" alt="Sports Icon" /></td>
<td>Sports</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Finance Icon" /></td>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Internet Icon" /></td>
<td>Connect to Internet</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Search Icon" /></td>
<td>Search</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Chat Icon" /></td>
<td>Chat</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="E-Mail Icon" /></td>
<td>E-Mail</td>
<td></td>
</tr>
</tbody>
</table>

#### Media controls (CD/DVD/MP3)

- **A**: Open and close disc tray
- **B**: Record
- **C**: Play or pause
- **D**: Stop
- **E**: Skip to the previous track
- **F**: Skip to the next track

#### 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

- **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.
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.
Using Your PC Top

Your PC may have a storage area (select models only) on the top of the PC chassis.

Using Your Docking Bay

Your PC may have a docking bay (select models only) on the top of the PC chassis.

You can use the docking bay to:

- Store CDs, DVDs, or memory cards.
- Dock a peripheral device in the bay, such as a digital camera docking station.
- Install a special cover (optional) and an HP camera and HP camera docking station. (Both the camera and the docking station are sold separately.)
- Install a special cover (optional) and an iPod Dock for use with an iPod, a portable music player. (Both the iPod and the iPod Dock are sold separately.)

The bay design allows you to place a device and thread the USB or FireWire (IEEE 1394) data cable and the power cord underneath the rear top cover to the connectors on the back of the PC.
Your PC may look different from the ones shown here. Components and location, availability, and number of connectors may vary.

**To store CDs, DVDs, or memory cards:**
Gently press down on the bay lid and slide it open.

**To install a peripheral device, an iPod Dock, or an HP camera and HP camera docking station:**
1. Gently press down on the bay lid and slide it open.
2. Place the peripheral device, the iPod Dock (H), or the camera docking station (A) on the top of the PC.

3. For a camera, place the camera cradle (B) that came with the digital camera on the camera docking station. The cradle clips onto the camera docking station.
4 Thread the cables that came with your peripheral device, iPod Dock (K), or camera docking station (C) through the cable tunnel. Starting from the back of the PC, thread them to the front of the PC. Pull the cables to the center and connect them to the peripheral or the docking station.

5 Connect the cables to the back of the PC or to a power outlet.

For a peripheral, refer to the instructions that came with your peripheral device. For an iPod Dock, connect the iPod cable to the USB connector. Refer to the documentation that came with your iPod.
For an HP camera docking station:
- Plug the USB cable into the back of the PC.
- Plug the power cord into a power outlet.

Optionally, if you want to view the camera images on a TV, plug the red and yellow connectors (not shown) into the TV.

Refer to the instructions that came with the HP camera docking station.

6. Place the iPod Dock lid (L) or the correct camera docking station lid (D) on top of the PC. Gently guide the edge of the lid into the top of the PC.

7. When you want to use it, place the iPod (M) or the HP digital camera (E) into the docking station.

8. Follow the instructions that came with your peripheral or docking station.
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.

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 16.

- 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 18.

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

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

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 17.

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 18.

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 17 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.

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.
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.)

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

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 20.
- 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 23.

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 18.

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 21.

**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 22.

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.

<table>
<thead>
<tr>
<th>Connector</th>
<th>Name</th>
<th>Icon</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Audio Line In</td>
<td><img src="https://PLACEHOLDER/for/ICON" alt="Icon" /></td>
<td>Light blue</td>
</tr>
<tr>
<td>B</td>
<td>Microphone</td>
<td><img src="https://PLACEHOLDER/for/ICON" alt="Icon" /></td>
<td>Pink</td>
</tr>
<tr>
<td>C</td>
<td>Headphones</td>
<td><img src="https://PLACEHOLDER/for/ICON" alt="Icon" /></td>
<td>Lime green</td>
</tr>
<tr>
<td></td>
<td>Audio Line Out</td>
<td><img src="https://PLACEHOLDER/for/ICON" alt="Icon" /></td>
<td></td>
</tr>
</tbody>
</table>

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 18.

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 24.

To use Multi-streaming Audio, see “Configuring Multi-streaming Audio (6 connector, Multi-streaming Audio)” on page 24.
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 22.

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 or located inside a cover. It has two or 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.

   NOTE: Media must be inserted correctly. Note the direction of the notched corner on the media. See the “Media Insertion Guide” on page 30. 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)

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

**A** Activity light

**B** Upper-left slot

**C** Lower-left slot

**D** Upper-right slot

**E** Lower-right slot
### Card Insertion Guide

<table>
<thead>
<tr>
<th>Card</th>
<th>Insert</th>
<th>Into 2-slot reader</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secure Digital (SD) Memory Card</td>
<td>Label up (gold connector fingers down)</td>
<td>F (Upper)</td>
</tr>
<tr>
<td>MultiMediaCard (MMC)</td>
<td>Label up (gold connector fingers down)</td>
<td>F (Upper)</td>
</tr>
<tr>
<td>Memory Stick (MS) Memory Card</td>
<td>Label up (gold connector fingers down)</td>
<td>F (Upper)</td>
</tr>
<tr>
<td>Memory Stick (MS-Pro) Memory Card</td>
<td>Label up (gold connector fingers down)</td>
<td>F (Upper)</td>
</tr>
<tr>
<td>SmartMedia (SM) Memory Card</td>
<td>Label down (gold connector fingers up)</td>
<td>F (Upper)</td>
</tr>
<tr>
<td>xD media</td>
<td>Label up (gold connector fingers down)</td>
<td>F (Upper)</td>
</tr>
<tr>
<td>IBM Microdrive disk drive</td>
<td>Receptacle edge (holes) (label up)</td>
<td>G (Lower)</td>
</tr>
<tr>
<td>CompactFlash Type I media</td>
<td>Receptacle edge (holes) (label up)</td>
<td>G (Lower)</td>
</tr>
<tr>
<td>CompactFlash Type II media</td>
<td>Receptacle edge (holes) (label up)</td>
<td>G (Lower)</td>
</tr>
</tbody>
</table>

**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

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.
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.

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

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.

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

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.

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.
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 43.

### 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.

### 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**.
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

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 29.

Using HP Image Zone

Use the HP Image Zone 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:

- Click the HP Image Zone icon on your desktop.
- Or
- Click Start on the taskbar, All Programs, HP, and HP Image Zone.
The HP Image Zone 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 **Image Catalog** to view all your images, or choose **Folders** 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 Tab Help” in Help.

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

**Print**  Click this tab to print photos, photo packages, and index sheets using the images in the selection tray. Projects include photo pages, cards, and flyers. For more information, see “Print Tab Help” in Help.

**Create**  Click this tab to create and to print a project using the images in the selection tray. Projects include album pages, calendars, labels, panoramas, cards, and flyers. For more information, see “Create Tab Help” 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 on 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 “HP Instant Share Help” in Help.

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

**Backup**  Click this tab to create backup discs of all the images on your PC or to recover images (either from a backup disc or from the Image Vault).

For more information on using HP Image Zone, 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.

**NOTE:** Most DVD movies are localized to geographical countries/regions. See “Using country/region codes” on page 52.

1. Insert a DVD disc into the DVD drive.

**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.
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.

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

**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.

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 71.

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.*
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 58.

- **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 58.

For more compatibility information, see “Disc Features and Compatibility Table” on page 67.
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.

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### 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.

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.

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 59.
- Music files have been copied without errors by performing the procedure described in “Verifying audio disc recorded without errors” on page 57.

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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

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

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 63.

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

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

**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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Read CDs, CD-Rs, and CD-RWs</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Read DVDs</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Read data on a CD</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Play music</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Record data or music to disc for storage or backup</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>View DVD movies</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Record DVD movies</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Play games</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
**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.

<table>
<thead>
<tr>
<th>With this program:</th>
<th>You can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>InterVideo WinDVD Player (select models only)</td>
<td>• Play DVD movies and video CDs (VCDs).</td>
</tr>
</tbody>
</table>
| iTunes (select models only) | • Play music CDs, MP3s, and other audio files.  
• Record music files.  
• Record a copy of an existing music or data CD to use on the PC.  
• Organize digital files into a library for recording or listening. |
| muvee autoProducer (select models only) | • Add your own style to your movies with music, pictures, titles, scene transitions, and captions.  
• Edit your home movies. |
| RealPlayer (select models only) | • Play music CDs, MP3s, and other audio files.  
• Play DVD movies. (*RealPlayer* can play DVDs only if another DVD player program, such as *InterVideo WinDVD*, is installed.)  
• Play video CDs.  
• Record music files.  
• Organize digital files into a library for recording or listening. |
<table>
<thead>
<tr>
<th>With this program:</th>
<th>You can:</th>
</tr>
</thead>
</table>
| Sonic DigitalMedia Plus (select models only) | • Record data and music files.  
• Record a copy of an existing music or data CD to use on the PC.  
• 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.  
• Copy and share data files.  
• Create archive CDs or DVDs from files on your PC.  
• Capture (copy) video files.  
• Has setting for verification that the disc has been created without errors. |
| Sonic MyDVD Plus (select models only) | • Record data and movie files.  
• Record a copy of an existing DVD to use on the PC.  
• Copy and share video files.  
• Capture (copy) video files. |
| Windows Movie Maker 2.0 | • Import audio, video, and other media files from a videotape, an audiotape, a Web camera, or a television broadcast.  
• Record audio and video files to create a video project that becomes a Windows Media source file with a .wmv extension.  
• Edit and preview files.  
• Send a movie in an e-mail or upload it to a Web server.  
• Add music files (.mp3).  
• 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.  
• Create .avi and .wmv (Windows Media Video) files. |

**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.

**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.
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 72).
- Direct-to-Disc Wizards (described beginning in “Creating a Video Project With the Direct-to-Disc Wizards” on page 77).

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 75.
- “Editing movie files” on page 75.

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 73.
- “Capturing video to a video project” on page 73.
- “Adding slideshows to a video project” on page 74.
- “Adding submenus to a video project” on page 74.
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 72.
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 72.
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 72.
2. Do one or more of the following:
   - Add existing picture files as described in “Adding files to a video project” on page 73.
   - Capture still images as described in “Capturing video to a video project” on page 73.
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 72.
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 73.
   - Capture still images as described in “Capturing video to a video project” on page 73.
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 72.
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 72.

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 78.
   - “DVD Recording Time” on page 79.
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 75.
- “Editing movie files” on page 75.

**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).

<table>
<thead>
<tr>
<th>Video quality</th>
<th>Audio format</th>
<th>8.5 GB</th>
<th>4.7 GB</th>
<th>2.6 GB</th>
<th>1.4 GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>HQ</td>
<td>Dolby Digital</td>
<td>130 min.</td>
<td>70 min.</td>
<td>40 min.</td>
<td>20 min.</td>
</tr>
<tr>
<td></td>
<td>PCM</td>
<td>110 min.</td>
<td>60 min.</td>
<td>30 min.</td>
<td>15 min.</td>
</tr>
<tr>
<td>SP</td>
<td>Dolby Digital</td>
<td>210 min.</td>
<td>120 min.</td>
<td>65 min.</td>
<td>35 min.</td>
</tr>
<tr>
<td></td>
<td>PCM</td>
<td>160 min.</td>
<td>95 min.</td>
<td>50 min.</td>
<td>25 min.</td>
</tr>
<tr>
<td>LP</td>
<td>Dolby Digital</td>
<td>310 min.</td>
<td>180 min.</td>
<td>100 min.</td>
<td>50 min.</td>
</tr>
<tr>
<td></td>
<td>PCM</td>
<td>215 min.</td>
<td>125 min.</td>
<td>65 min.</td>
<td>35 min.</td>
</tr>
<tr>
<td>EP</td>
<td>Dolby Digital</td>
<td>415 min.</td>
<td>240 min.</td>
<td>130 min.</td>
<td>70 min.</td>
</tr>
<tr>
<td></td>
<td>PCM</td>
<td>265 min.</td>
<td>150 min.</td>
<td>85 min.</td>
<td>45 min.</td>
</tr>
</tbody>
</table>

- 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.
Creating Movies Using muvee autoProducer

Creating personalized and professional-looking video movies is simple with muvee autoProducer (select models only).

Basic Steps to Make a Movie

The basic steps to produce a movie with muvee autoProducer are:

1  **Capture digital video:** Capture live or recorded video to your hard disk drive directly from a compatible digital video camcorder.

2  **Add videos and pictures:** Select video and picture files from your PC folders. You can easily add videos and still images to your movie production. You can use these video and still image file types in your movie project:

<table>
<thead>
<tr>
<th>File extension</th>
<th>File type</th>
</tr>
</thead>
<tbody>
<tr>
<td>.dv</td>
<td>Digital video</td>
</tr>
<tr>
<td>.avi</td>
<td>Audio Video Interleaved</td>
</tr>
<tr>
<td>.mpeg-1</td>
<td>Motion Picture Experts Group</td>
</tr>
<tr>
<td>.mpeg-2</td>
<td>For DVD video playback</td>
</tr>
<tr>
<td>.mpeg-4</td>
<td>High quality video format (for web streaming, wireless devices, etc.)</td>
</tr>
<tr>
<td>.wmv</td>
<td>Windows Movie Video</td>
</tr>
<tr>
<td>.asf</td>
<td>Advanced Streaming Format</td>
</tr>
<tr>
<td>.mov</td>
<td>Apple QuickTime Video Clip</td>
</tr>
<tr>
<td>.jpg, .jpeg</td>
<td>Joint Photographic Experts Group, still image</td>
</tr>
<tr>
<td>.gif</td>
<td>Graphics Interchange Format, still image</td>
</tr>
<tr>
<td>.bmp</td>
<td>Bitmap, still image</td>
</tr>
</tbody>
</table>
3 **Add music:** Select music files on your PC to add to your movie soundtrack.
   You can use these music file types in your movie project:

<table>
<thead>
<tr>
<th>File extension</th>
<th>File type</th>
</tr>
</thead>
<tbody>
<tr>
<td>.mp3</td>
<td>MPEG Layer 3 audio</td>
</tr>
<tr>
<td>.m4a</td>
<td>MPEG-4 audio layer</td>
</tr>
<tr>
<td>.wav</td>
<td>Windows audio</td>
</tr>
<tr>
<td>.wma</td>
<td>Windows Media audio</td>
</tr>
</tbody>
</table>

4 **Select a style:** Apply a movie style editing template for different effects and picture transitions in your movie.

5 **Add captions:** Personalize your movie with opening titles and closing credits.

6 **Make the movie:** Automatically analyze the videos, pictures, music, movie style, and captions you added to your movie, and save your movie to your PC hard disk drive, CD, or DVD.

7 **Burn to disc:** You can burn a video to DVD, VCD, or SVCD.
   The following sections contain detailed instructions.

**Locating muvee autoProducer**

You can access muvee autoProducer as follows:

Click **Start** on the desktop taskbar, and select **All Programs, muvee Technologies, muvee autoProducer**, and then **muvee autoProducer** to open muvee autoProducer.

---

**NOTE:** To view Help files, press the F1 function key on the keyboard.
# Using muvee autoProducer

## Getting started

To open muvee autoProducer:

1. Click **Start** on the taskbar.
2. Select **All Programs, muvee Technologies, muvee autoProducer**, and then **muvee autoProducer** to open muvee autoProducer.

**NOTE:** You can also open muvee autoProducer from within Digital Media Plus. Select the **Video** tab and then **muvee autoProducer**.

3. Open a project by selecting, from the File menu, either **New Project** or **Open Project**.
4. Select one of the button options:

<table>
<thead>
<tr>
<th>Button</th>
<th>Allows you to</th>
<th>See</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add Video</td>
<td>Open the Add Video window to add existing video files to your project.</td>
<td>“Adding videos” on page 85.</td>
</tr>
<tr>
<td>Add Pictures</td>
<td>Open the Add Pictures window to add existing still image files to your project.</td>
<td>“Adding pictures” on page 86.</td>
</tr>
<tr>
<td>Add Music</td>
<td>Open the Add Music files window to add existing music files to your project.</td>
<td>“Adding music” on page 86.</td>
</tr>
<tr>
<td>Select Style</td>
<td>Open the Select Style window to select an editing template for your movie.</td>
<td>“Selecting the style” on page 87.</td>
</tr>
<tr>
<td>Change Settings</td>
<td>Open the muvee Settings window to adjust audio and video production settings for your movie.</td>
<td>“Changing the settings” on page 87.</td>
</tr>
<tr>
<td>Title/ Credits</td>
<td>Open the muvee Title and Credits window to type in an opening title and closing credits for your movie.</td>
<td>“Adding an opening title and closing credits” on page 88.</td>
</tr>
<tr>
<td>make muvee</td>
<td>Open the Make muvee window to automatically create and preview the movie.</td>
<td>“Making the movie” on page 89.</td>
</tr>
<tr>
<td>Save muvee</td>
<td>Open the Save muvee window to save the finished movie on your PC hard disk drive in WMV or MPEG formats.</td>
<td>“Saving the movie project” on page 89.</td>
</tr>
<tr>
<td>Burn to Disc</td>
<td>Open the muvee Burner window to record the finished movie in DVD, VCD, or SVCD formats.</td>
<td>“Recording the movie project to disc” on page 90.</td>
</tr>
</tbody>
</table>
Capturing video from a DV camcorder

You can capture (copy) digital video files to your hard disk drive by using muvee autoProducer either:

- **Live** (known as *camera mode*) using a compatible DV camcorder. See “Capturing live video from a DV camcorder” on page 84.

Or

- **Recorded** (known as *VCR mode*) using a recorded tape in your DV camcorder. See “Capturing recorded video from a DV camcorder” on page 84.

Captured video files are automatically added to your movie project. To remove the file from your movie project, select the video file in the Captured Video Files list, and then click the trash can icon.

When capturing video, it is important to be aware of the amount of free space available on your PC hard disk drive. Capturing video can use a large amount of disk space. The amount of free disk space displays on the Capture Video window in muvee autoProducer while you are capturing video.

Capturing live video from a DV camcorder

Capturing live video in camera mode allows you to create a video file without even having a tape in the camcorder.

To capture (copy) live video to your hard disk drive using muvee autoProducer:

1. Connect your DV camcorder to the FireWire (IEEE 1394) port on your PC.
2. Turn on the camcorder and set to VCR mode. Refer to the instructions in the manufacturer’s documentation.
3. Click **Tools**, then **Get Video from Camera**.
4. Click the **Start Capture** button to begin capturing the live image directly to your hard disk drive.
5. Click the **Stop Capture** button to stop capturing.
6. Click **Capture Folder** to specify a folder for the captured video file.
7. Click **Filename** to specify a file name for the captured video file.
8. Click the **Done** button to automatically add captured video files to your movie project.

Capturing recorded video from a DV camcorder

For best results with muvee autoProducer, capture only video footage that you are most interested in using in your movie project.

To capture camcorder (copy) recorded video to your hard disk drive:

1. Connect your DV camcorder to the FireWire (IEEE 1394) port on your PC.
2. Turn on the camcorder and set to VCR mode. Refer to the instructions in the manufacturer’s documentation.
3. Click **Tools**, then **Get Video from Camera**.
4 Click the **Play** button on the screen to begin viewing the video.

5 Click **Start Capture** when you see the start of the video footage you want to use in your movie project.

6 Click **Stop Capture** to stop capturing.

7 Repeat steps 5 and 6 to capture additional sections of video footage.

8 Click the **Capture Folder** to specify a folder for the captured video file.

9 Click **Filename** to specify a file name for the captured video file.

10 Click the **Done** button to automatically add captured video files to your movie project.

**Adding videos**

To add video files to your movie production:

1 Select the **Add video** button in the video/pictures area. The Add Video window opens.

2 Browse the folders.

3 Select existing video files on your hard disk drive, if desired for your movie:
   - Add up to three video files.
   - Select multiple video files by pressing and holding Ctrl on your keyboard while selecting the files.

4 Adjust the order of the video files by selecting and then dragging and dropping the file.

To remove a video clip from the production, select the clip, and click the trash can icon.

5 You can mark specific scenes in a video clip to include or leave out of your final movie, with the magicMoments feature in muvee autoProducer.

To select video scenes with magicMoments:

a Select a video file in the Select Video/Pictures window, and then click the **magicMoments** button. The magicMoments window opens.

b Click the **Play** button to start viewing the video.

c Use the magicMoment controls to mark video scenes to include and exclude:
   - Click and hold down the **green thumbs-up** button to mark scenes that must be included in the movie.
   - Click and hold down the **red thumbs-down** button to mark scenes that must be left out of the movie.
• Click and hold down the **gray thumb** button to undo one second of a selected scene. Shift and click to undo scenes that were marked with the thumbs-up or thumbs-down buttons.

• Click and hold down the **arrow** buttons to navigate backward and forward through the video footage.

Video footage left unmarked is still analyzed when you make the movie and may be included in the final version of the movie.

For best results with the production of your movie:
• Keep each magicMoment to less than 10 seconds.
• Keep the total duration of magicMoments to less than 50 percent of the duration of your movie. It is recommended to select only a few scenes.

- Click **OK** when you finish marking scenes. The window closes. Note that the video clip is marked on the lower-left side.

### Adding pictures

To add still image files to your movie production:

1. Select the **Add Pictures** button in the Video/Pictures area. The Add Picture window opens.
2. Browse the folders, as required.
3. Select existing still image files on your hard disk drive, if desired for your movie:
   - Add up to 50 .jpg, .gif, or .bmp picture files.
   - Select multiple picture files by pressing and holding Ctrl on your keyboard while selecting the files.
4. Adjust the order of the picture files by selecting and then dragging and dropping the picture file.
   To remove a picture from the production, select the picture, and click the **trash can** icon.
5. Select the **Rotate Image Clockwise** button to rotate still images.

### Adding music

To add music files to your movie production soundtrack:

1. Select the **Add Music** button in the music area. The Add Music window opens.
2. Browse the folders, as required.
3. Select existing music files on your hard disk drive, if desired for your movie:
   - Add up to three .mp3, .wav, or .wma files.
   - Select multiple music files by pressing and holding Ctrl on your keyboard while selecting the files.
4 Adjust the order of the music files by selecting and then dragging and dropping the file. Select the music, and click the trash can icon to remove a music clip from the production.

Selecting the style

The muvee autoProducer program comes with a set of style templates for setting the pace, scene transition effects, and caption fonts. The style you use also affects how muvee autoProducer combines the video, picture, and music files in your movie project to produce the final movie.

For example, using the Cinema style results in a movie that is moderately paced, color enhanced, and uses a wide-screen format.

To select a style, just click a style from the list. A sample of the style displays in the preview window.

Changing the settings

You can adjust audio and video production settings for your movie.

1 Select the Change Settings button. The muvee Settings window opens.

2 Select the Duration tab to set the length of your video production and preferences. Click one of the following duration settings:
   - **Fit to music.** The produced version may reuse or drop some video and pictures.
   - **Best fit for videos and pictures.** The produced version may repeat or trim music.
   - **User Defined.** Select the duration in minutes and seconds:
     - If the duration of your music is longer than the duration of video and pictures, place a check in the Allow video and pictures to repeat check box to repeat video clips and pictures for the full duration of your music files.
     - If the total duration of your video and picture files is longer than the duration of your music, place a check in the Allow Music to repeat check box to repeat music for the duration of the video clips.

3 Select the Video tab to set the video and still image preferences. Click one of the following settings:
   - **Style default.** Use the selected style to sequence still images and video clips.
   - **Keep shots in sequence.** Use the sequence of still images and video clips in the Add Video/Pictures window.
   - **Shuffle shots.** Move the slider bar to determine the frequency of sequencing still images and video clips.
   - Place a check in the **Interleave pictures** check box to blend pictures with video at intervals.
4 Select the Audio tab to set the sound preferences. Click one of the following settings:

- **Use all music.** Place a check in the check box to use the sequence of sound files in the Add Music window.
- **smartJoin™ multiple music files.** Place a check in the check box to automatically remove silence between music tracks.
- **Normalize music.** Place a check in the check box to automatically adjust audio playback volume to the same level.
- Move the slider bar to adjust the Sound mix level of the music and original soundtrack.

5 Click OK when you are finished adjusting the settings for your movie project. Or

   Click Cancel to not change any settings.

### Adding an opening title and closing credits

You can personalize your movie project by adding an opening title and closing credits.

1 Click the Title/Credits button. The muvee Title and Credits window opens.

2 Click the Title tab:
   a Select a Title effect from the drop-down window.
   b Type the text you want to appear at the start of your movie in the Enter your title here box.
   c Click the Use font button to select the font, style, size, color, and effects from the Font window.
   d Select a background image or color for the title.

3 Click the Credits tab.
   a Select a Credits effect from the drop-down window.
   b Type the text you want to appear at the end of your movie in the Enter your credits here box.
   c Click the Use font button to select the font, style, size, color, and effects from the Font window.
   d Select a background image or color for the ending credits.

4 Click Apply.

5 Click OK to close the muvee Title and Credits window.
Making the movie

After you have added at least one video or picture file to your movie project, you can have muvee autoProducer make the movie.

The muvee autoProducer program makes a movie by combining the video, picture, and music files you have selected, along with the style of movie, and puts together all of these pieces into a professional-looking movie with just a few steps.

To make a movie:

1. Click the make muvee button. Click OK as required.
2. After making a movie you can preview the movie in the muvee autoProducer Preview window. Use the controls in the Preview window to play, pause, and stop the movie preview:
   - Each time you make a change to a movie project, you need to click the make muvee button again to add that change to your movie.
   - You can revise and preview the movie as often as you want to experiment with different styles and the content of the movie.

Saving the movie project

Once you are satisfied with the look of your movie project, you are ready to save it.

You can save the movie to a file on your hard disk drive or create a VCD or DVD disc.

1. Click the Save muvee button. The Save muvee window opens.
2. Choose the movie file type to save to your hard disk drive:
   - Computer Playback
   - E-mail
   - DV (camcorder)
   - DVD
   - VCD (video CD)
   - SVCD
   - Web Streaming
   Click the Change Settings button to change the video and audio settings of the movie file type as required (advanced users only).
3 Click the **Save** button.

4 Enter a name for the output movie. Select a folder on your hard disk drive, as required. The movie saves.
   - You can watch the preview as it saves.

5 Click the **Save** button.

6 Click **Yes** to preview the movie file.

**Recording the movie project to disc**

To create a DVD, VCD, or SVCD disc:

1 Click the **Burn to Disc** button. The muvee Burner window opens.

2 Type the disc title.

3 Select the video(s) to burn to the disc:
   - Select the order of the chapters.
   - Add or delete videos, as required.

4 Select the disc menu theme from the drop-down list.

5 Select the **CD** or **DVD** burner drive.

6 Select the type of video disc to create: **DVD**, **VCD**, or **SVCD**.

7 Click **Burn Now** to begin burning your movie to disc.
   To save the current settings for future use, click **Burn Later**.

8 Click **OK** when the recording is complete. Close the muvee Burner window.
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.
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 Updates from HP

Updates from HP (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 Updates from HP 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 Updates from HP:

1. Click **Start** on the taskbar.
2. Choose **All Programs**.
3. Choose **PC Help & Tools**.
4. Choose **Updates from HP**.
Click **Updates from HP** again. Updates from HP displays.

- If Updates from HP 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 Updates from HP remains active.
- If Updates from HP 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

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

To turn off the Updates from HP Service:

1. Click **Start** on the taskbar.
2. Choose **All Programs**.
3. Choose **PC Help & Tools**.
4. Choose **Updates from HP**.
5. Click **Updates from HP** again. Updates from HP 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 Updates from HP 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 **Updates from HP**.
5. Click **Updates from HP** again. Updates from HP 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.
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