Welcome

Congratulations on your purchase of this Sony VAIO® computer, and welcome to the online VAIO® Computer User Guide. This user guide provides detailed information on all aspects of using your new VAIO computer, from keyboard functions to preinstalled software programs.

In the left navigation window, click the topics you want to learn more about, and that information will be displayed in this main window.

Moview the Electronic Flyer, which provides updates and supplemental information about your computer.

Go to the <u>Sony Computing Support</u> Web site to view the VAIO® Computer Specifications, which lists your computer's hardware specifications and preinstalled software information.

For Sony software information, click **Start** and select **Welcome to VAIO Life**.

This section provides information on how to safely use your Sony computer.

Applying Ergonomics

Your computer is a portable device and can be used in a variety of environments. Whenever possible, you should apply the following ergonomic considerations:

- **Position of your computer** Place the computer directly in front of you as you work. Keep your forearms horizontal, with your wrists in a neutral, comfortable position while using the keyboard, touch pad, or external mouse. Let your upper arms hang naturally at your sides. Take breaks during sessions with your computer. Excessive use of the computer may strain muscles or tendons.
- Furniture and posture Sit in a chair with good back support and armrests. Adjust the level of the chair so your
 feet are flat on the floor. A footrest may make you more comfortable. Sit in a relaxed, upright posture and avoid
 slouching forward or leaning far backward.
- **Viewing angle of the computer's display** Tilt the display to find the best viewing angle. Also try adjusting the brightness setting of the display. Following these suggestions can reduce eye strain and muscle fatigue.
- **Lighting** Choose a location where windows and lights do not create glare or reflection on the display. Use indirect lighting to avoid bright spots on the display. You can purchase accessories for your display that help reduce glare. Proper lighting adds to your comfort and work effectiveness.
- Placement of an external display When using an external display, set the display at a comfortable viewing distance. Make sure the display screen is at eye level or slightly lower when you are sitting in front of the monitor.

Storing Your Computer

- Do not use or store your computer in a location subject to:
 - Heat sources, such as radiators or air ducts
 - Direct sunlight
 - Excessive dust
 - Moisture or rain
 - Mechanical vibration or shock
 - Strong magnets or speakers that are not magnetically shielded
 - Ambient temperature higher than 95°F (35°C) or less than 40°F (5°C)
 - High humidity
- Do not place electronic equipment near your computer. When running, the computer's electromagnetic field may cause other electronic equipment in close proximity to malfunction.
- Provide adequate air circulation to prevent internal heat buildup. Do not place your computer on porous surfaces such as rugs or blankets, or near materials such as curtains or draperies that may block ventilation. Leave a space of at least 8 inches (20 cm) behind the back of the computer.
- If the computer is brought directly from a cold location to a warm one, moisture may condense inside your computer. In this case, allow at least one hour before turning on your computer. If any problems occur, unplug your computer, and contact your Sony Service Center.
- The computer uses high-frequency radio signals and may interfere with radio or TV reception. Should this occur, move the computer a suitable distance away from the radio or TV.
- Do not drop the computer or place heavy objects on top of the computer.

Using Cables and Connections

- Use only specified peripheral equipment and interface cables.
- Do not use cut or damaged connection cables.
 - If the telephone company makes a service call to your home or office and determines that your computer is responsible for a problem, the telephone company may bill you for the service call. Also, if you do not disconnect your computer when it is adversely affecting a telephone line, the telephone company has the right to disconnect your service until you correct the problem.

Cleaning Your Computer

- Clean the computer with a soft, dry cloth or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine, as these may damage the finish of your computer. You can use canned compressed air specifically for computers to remove dust.
- If a solid object falls onto the computer or a liquid leaks into the computer, immediately turn off and unplug the computer. It is best to have the computer checked by qualified personnel before you use it again.
- Avoid rubbing the LCD screen as this can damage the screen. Use a soft, dry cloth to wipe the LCD screen or canned compressed air.
- Always disconnect the power cord before cleaning the computer.

Handling the LCD Screen

- Direct sunlight can damage the LCD. Be careful when using the computer near a window.
- Do not scratch the LCD or exert pressure on it. This can cause a malfunction.
- Using the computer in low temperature conditions may produce a residual image on the screen. This is not a malfunction. When the computer returns to normal temperature, the screen returns to normal.
- The screen becomes warm during operation. This is normal and does not indicate a malfunction.
- The LCD is manufactured using high-precision technology. You may, however, see tiny black points and/or bright points (red, blue, or green) that continuously appear on the LCD. This is a normal result of the manufacturing process and does not indicate a malfunction.

Powering Your Computer

Your VAIO® computer comes with a battery and an AC adapter. This chapter explains how to install and use these supplied accessories to power your computer. It also describes ways you can efficiently utilize the battery as a power source.

Using AC Power

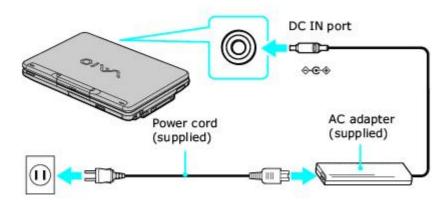
The supplied battery is not charged when you receive your computer. To charge the battery and begin using the computer immediately, insert the battery into the computer and use the supplied AC adapter as a power source. The computer automatically charges the installed battery while it uses AC power.

Connecting the AC adapter

To connect the AC adapter

1. Plug the AC adapter cable into the DC IN port.

Connecting the AC Adapter to the Computer



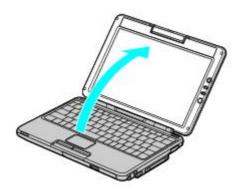
- 2. Plug the power cord into the AC adapter and an AC outlet.
- Use only the supplied AC adapter with your computer.

Turning on the computer

To open and turn on the computer

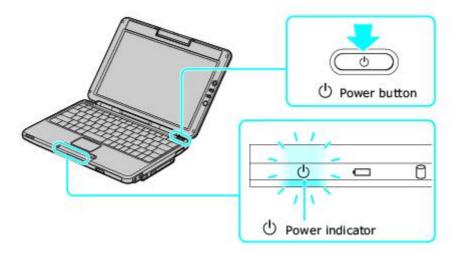
1. Lift the cover while holding the bottom of the computer firmly.

Opening the Computer



2. Press the power button until the power indicator turns on.

Turning on the Computer



- $m{\angle}$ If you continue to press the power button, the computer turns off.
- 3. If the computer screen is too dark or too bright, follow these steps to adjust the brightness:
 - To increase brightness, press the **Fn** and **F5** keys, and then press the **Up Arrow** or the **Right Arrow** key.
 - To decrease brightness, press the **Fn** and **F5** keys, and then press the **Down Arrow** or the **Left**Arrow key.

Using the Battery

Your computer, depending on the model you purchased, may come equipped with one battery bay and one multipurpose bay that supports a second battery. If your computer comes with two bays, you can purchase a second rechargeable battery to extend your computing time. For information on how to extend the life of the battery, see Conserving Battery Power for more information.

The battery that comes with your computer is not fully charged at the time of purchase.

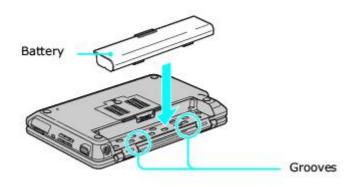
The brightness of your computer screen automatically dims when you switch from AC power to battery power. To increase the brightness, press the **Fn** and **F5** keys, and then press the **Up Arrow** or **Right Arrow** key.

Inserting a battery

To insert a battery

- 1. Turn the computer over, and slide the **UNLOCK/LOCK** latch on the bottom of the computer to the **UNLOCK** position.
- 2. Align the tabs on the battery with the grooves on the back of the computer, and slide the battery into the computer until it clicks into place.

Inserting a Battery



3. Slide the **UNLOCK/LOCK** latch into the **LOCK** position to secure the battery.

Some programs and peripheral devices prevent the system from automatically entering Hibernate mode. If you are using battery power, save your data frequently to avoid data loss and manually activate a power saving mode. See <u>Using power saving modes</u> for more information.

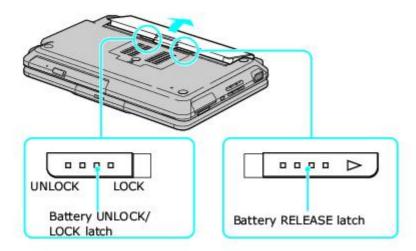
Removing a battery

If you are not using the computer for an extended period of time, remove the battery from the computer to avoid damaging the battery. Remove the battery when the computer is off.

To remove a battery

- 1. Make sure the computer is off.
- 2. Turn the computer over, and slide the **UNLOCK/LOCK** latch on the bottom of the computer to the **UNLOCK** position.
- 3. Push and hold the **RELEASE** latch.
- 4. While holding the **RELEASE** latch, slide the battery away from the computer.

Removing a Battery



Locating battery information

You can view the remaining battery charge and miscellaneous battery information on the Battery Information toolbar, the PowerProfile window, and the Power Meter window.

The Battery icons that appear on the **Battery Information** toolbar and PowerPanel window indicate the current status of the installed battery.

Battery icon Charge status



To view the Battery Information toolbar

- 1. Right-click the center of the Windows® taskbar.
- 2. Select **Toolbars** from the shortcut menu, and click **Battery Information**. The **Battery Information** toolbar appears on the taskbar.

If the **Battery Information** toolbar is hidden behind the taskbar icons, right-click the taskbar and click to cancel **Lock the Taskbar**. Click and drag the edge of the **Battery Information** toolbar to the left until it is in clear view.

The total charge remaining in the battery is listed in percent and real-time values.

Battery Information Toolbar*



- * The Battery Information Toolbar may appear slightly different on your computer, depending on the number of batteries your computer supports.
- Percentage indicator Displays the percentage of the remaining charge.
- Time indicator Displays estimated time (hours: minutes) remaining before the battery fully discharges, also known as the time-to-empty.

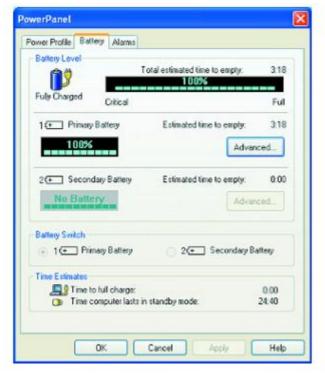
To close the Battery Information toolbar

- Right-click the Battery Information toolbar.
- Select Toolbars from the shortcut menu, and click to cancel Battery Information. The Battery Information toolbar disappears from the taskbar.

To view the PowerPanel window

Double-click the **CPU** icon or **Profile** icon (depending on the model you purchased. The **PowerPanel** window appears.

PowerPanel*



- * The PowerPanel window may appear slightly different on your computer, depending on the number of batteries your computer supports.
- **Power Profile** Displays the power management settings for various devices on your system. You can change the settings to conserve power.
- **Battery tab** Displays the total charge remaining in the battery. You can click **Advanced** for specific information on the battery.
- Alarms tab Displays the alarm settings, which notify you when the battery is fully charged or too low. You can change your computer's alarm settings on this window.

 $ot\!\!$ Click **Help** in the lower right corner of the window for more information.

To view the Power Meter window

1. Double-click the **Power** icon. The **Power Meter** window appears. You can also rollover the Power icon to view the remaining battery charge.

Power icon Power status



Computer is using AC power.



Computer is using AC power and charging the battery.



Battery is charging.



Battery is fully charged.

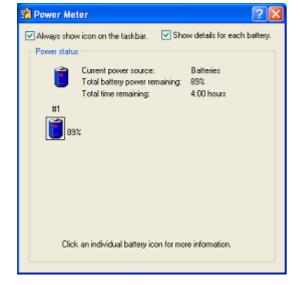


Battery is discharging.



No battery is inserted in the computer.

If the Power icon is not displayed on the Taskbar Notification area, see To display the Power icon on the taskbar.



To display the Power icon on the taskbar

- 1. Click **Start** on the Windows® taskbar, and click **Control Panel**.
- 2. Click **Performance and Maintenance**, and click **Power Options**. The **Power Options Properties** window appears.
- 3. Select the **Advanced** tab, and then select **Always show icon on the taskbar** in the **Options** box. The power icon appears on the taskbar. See the power icon descriptions above for more information.

Charging a battery

You will need to charge the battery if battery power drops below 10 percent or you have not used the battery for a long time. The lithium-ion battery supplied with your computer may be recharged at any time, whether you wait until the battery is completely or partially discharged. Charging a partially discharged battery does not affect battery life. If you charge the battery and find that battery power is still low, the battery may be reaching the end of its life, and you may need to replace it.

The battery supplied with your computer is not charged at the time of purchase.

To charge a battery

You can charge the battery when the computer is on or off. However, the battery will charge faster when the computer is off. Charging the battery takes several hours. See your VAIO® Computer Specifications for the approximate time needed to charge your battery.

Charge the battery at temperatures between 50°F and 80°F (10°C to 30°C). Lower temperatures require more time to charge.

- 1. Insert the battery into the battery bay.
- Connect the AC adapter to the computer. The computer automatically charges the battery as long as the computer is using AC power.

The battery indicator blinks while the battery charges. The battery indicator stops blinking when the battery is fully charged.

Battery Indicator



Battery indicator status Description

On The computer is using battery power.

Single blink The battery is running out of power.

Double blink The battery is charging.

Off The computer is using AC power.

Notes on batteries

- Never leave the battery in temperatures above 140°F (60°C), such as under direct sunlight or in a car parked in the sun.
- While the battery is in use or being discharged, the battery heats up. This is normal and is not cause for concern.
- Keep the battery away from heat sources.
- Keep the battery dry.
- Do not open or disassemble the battery.
- Do not expose the battery to any mechanical shock.
- Battery life is shorter in a cold environment because of decreased battery efficiency at low temperatures.

Conserving Battery Power

You may use the power saving modes and PowerPanel utility to conserve battery power. Conserving battery power may significantly extend your computing time, depending on how you use your computer.

Using power saving modes

In addition to the normal operating mode, which allows you to turn off specific devices to save power, your computer has two distinct power saving modes: Standby and Hibernate. Use the Standby and Hibernate power saving modes to override a power profile setting and initiate immediate action.

- **Standby** Saves the state of the system and peripheral devices in memory (RAM). The system remains on, and the computer screen (LCD) is off.
- **Hibernate** Saves the state of the system and peripheral devices to the hard disk. Hibernate mode consumes the lowest level of power. Your computer enters Hibernate mode when the remaining battery charge drops below 5 percent, regardless of the setting you select.

Since some programs and peripheral devices prevent the system from entering Hibernate mode, save your data frequently to avoid data loss.

To activate Standby mode

- 1. Press the **Fn** and **Esc** keys. The power indicator blinks in this mode.
- Press any key to return to normal mode.

To activate Hibernate mode

- 1. Press the **Fn** and **F12** keys, or press the power button and release it immediately. Do not move the computer until the power indicator turns off.
- 2. Press the power button to return to normal mode.

If your computer does not activate Hibernate mode, see <u>Battery</u> for more information.

Using PowerPanel utility

The PowerPanel utility enables you to select and customize a predefined power management profile to conserve battery life. The following table describes all the predefined power management profiles in PowerPanel. You can customize the settings for all the following profiles, except the Disable Power Management profile.

Profile

Icon Description



Maximum Performance

Provides the best system performance but conserves minimal power.



Maximum Battery Life

Provides power saving features to give you maximum battery life and good performance. It slows the computer and puts it into Standby mode after a specified time.



Ultimate Battery Life

Extends the Maximum Battery Life by stopping power to the optical drive and Memory Stick® media slot.



Power Management Off

Disables all power management settings, such as Standby and Hibernate modes. You cannot change the settings of this profile.



AC Power

Indicates when AC power is in use. Similar to Power Management Off and the Standby mode after a half hour. Power Management automatically loads the AC profile unless you disable this feature.



Games

Disables the display and the Hard Disk Standby timer.



Presentation

Keeps the display on at all times while conserving power. This option is ideal for slide show presentations. You can establish settings for LCD (Video) Standby, Hard Disk Standby, and Standby mode to optimize power management for your system.



Camera

Optimizes performance and power requirements for camera usage.



DVD

Optimizes performance and power requirements for DVD usage.



Word Processing

Optimizes power management with longer time-outs on the hard disk and display screen. You can also establish settings for LCD (Video) Standby, Hard Disk Standby, and Standby mode to optimize power management for your system.



Spreadsheet

Optimizes performance and power requirements for spreadsheet programs.



Communications

Extends battery life by initiating a quick display time-out. The Internal modem remains powered on. You can also establish settings for LCD (Video) Standby, Hard Disk Standby, and Standby mode to optimize power management for your system.



Automatic Profile Selection

Automatically selects a profile suitable for active software programs.

To select a profile

- 1. Right-click the **CPU** icon or **Profile** icon descriptions.
- 2. Select **Profiles**, and click the profile on the shortcut menu. The profile settings are implemented instantly. See <u>Using PowerPanel utility</u> for descriptions of available profiles.

When you use the battery to power your computer, your system automatically selects the Maximum Battery Life power management profile by default. If you select a different power management profile while using battery power, that profile is selected automatically the next time you use the battery to power your computer.

See PowerPanel Help for information on customizing the power management profiles.

To customize your profile settings

You can customize your profile settings to sustain enough power for a particular computing function.

- 1. Right-click the **CPU** icon \square or **Profile** icon \square , depending on the model you purchased.
- Select Edit/Create Profiles from the shortcut menu.
- 3. In the left panel, select the profile you want to change.
- 4. In the right panel, right-click the setting under **System**, **LCD** (**Video**), **Hard Disk**, or **Other Devices** that you want to change. See the following table for a description of each power management setting.
- 5. Make your changes from the drop-down menu.
- 6. Click File, and click Save.

Power Management Setting Description

CPU Control¹ Controls the processor speed. You can select either **Performance**, **Adaptive**, or **Battery Life**. These selections are listed in order from the greatest to least amount of power consumed.

Standby Timer Controls the time it takes the system to activate the Standby mode when it is idle. The longer you allow the computer to sit idle while it is not in a power saving mode the more power the computer consumes.

Hibernate

Timer Controls the time it takes the system to activate the Hibernate mode when it is idle. The longer you allow the computer to sit idle while it is not in a power saving mode the more power the computer consumes. Hibernate mode conserves more power than Standby mode.

CPU Fan Control¹ (On selected models) Controls the speed of the processor fan. You can set the fan speed to different levels. **Level 1 (Quiet)** conserves the most power.

Lid Close Action Controls the state of your system when the lid of the computer is closed. You can select either **Standby**, **Hibernate**, or **LCD Off**.

Hibernate on Low Battery Controls the state of your system when the battery power is low. You can turn this setting **On** or **Off**. Selecting On conserves the most power when the battery is low.

LCD

Brightness Controls the brightness of the computer screen (LCD). You can select a brightness level of one to nine. The darker you set the computer screen the more power you conserve.

LCD Standby Timer Controls the time it takes the system to turn off power to the computer screen (LCD) when the system is idle. The system itself still functions on full power.

HDD Standby Timer Controls the time it takes the system to turn off power to the hard disk drive when the system is idle. This setting only turns off power to the hard disk drive.

i.LINK Port (On selected models) Controls power to the i.LINK® port. Disabling power to the i.LINK port conserves power.

Memory Stick Port Power-saving Controls power to the Memory Stick media slot. Disabling power to the Memory Stick media slot conserves power.

Optical Drive Power-Saving Controls power to the optical drive. Disabling power to the optical drive conserves power.

Slows the processor speed.

Internet and Network Connections

Internet Connections

This section describes the basic steps for setting up your dial-up or Ethernet connection to the Internet. The New Connection Wizard guides you through the process of connecting to the Internet and choosing an Internet service provider (ISP) or setting up an existing account. When you connect to the Internet, you can register your VAIO® computer, use online services, and gain access to Sony Computing Support.

Internet and Network Connections

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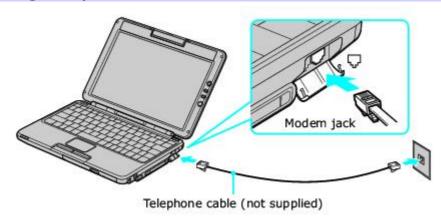
Setting up a dial-up Internet connection

Before you can connect to the Internet, you need to connect your computer to a telephone line via a telephone cable (not supplied). Once you set up your telephone cable, you're ready to connect to the Internet.

To connect a telephone cable

- 1. Locate the Modem jack on your computer. For location information, see "Locating Ports and Controls" in the "Setting Up" chapter of your printed VAIO® Computer Quick Start.
- 2. Plug one end of the telephone cable into the Modem jack. Make sure it clicks into place.
- 3. Plug the other end into the wall jack.

Connecting a Telephone Cable



Your computer does not work with party lines, cannot be connected to a coin-operated telephone, and may not work with multiple telephone lines or a private branch exchange (PBX). Some of these connections may result in excess electrical current and could cause a malfunction in the internal modem.

If you connect a telephone cable coming through a splitter, the modem or connected device may not work properly.

To set up a dial-up connection to the Internet

- 1. Connect your computer to a telephone line. See <u>To connect a telephone cable</u> for more information.
- Click Start, point to All Programs, Accessories, Communications, and click New Connection Wizard. The New Connection Wizard appears.

New Connection Wizard



- 3. Click **Next**. If the **Location Information** dialog box appears, follow the on-screen instructions.
- 4. If it is not already selected, click to select **Connect to the Internet**, and click **Next**.
- 5. Follow the on-screen instructions.

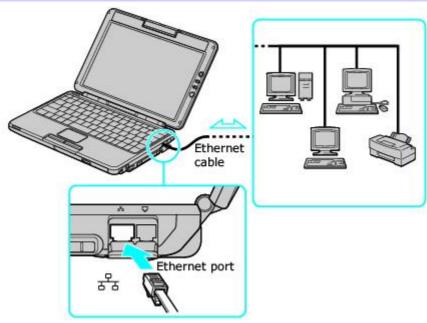
Setting up an Ethernet Internet connection

Your computer accommodates both 10BASE-T and 100BASE-TX Ethernet connections, with data transfer speeds of between 10 and 100 Mbps.

To connect an Ethernet cable

Locate the Ethernet port on your computer. For location information, see "Locating Controls and Ports" in the "Setting Up" chapter of your printed VAIO® Computer Quick Start.

Connecting an Ethernet Cable



2. Plug one end of the Ethernet cable into your computer's Ethernet port stand the other into the network connection.

To set up an Ethernet connection to the Internet

- 1. Connect your computer to a network connection.
- Click Start, point to All Programs, Accessories, Communications, and click New Connection Wizard. The New Connection Wizard appears.

New Connection Wizard



- 3. Click **Next**. If the **Location Information** dialog box appears, follow the on-screen instructions.
 - 4. If it is not already selected, click to select **Connect to the Internet**, and click **Next**.
 - 5. Follow the on-screen instructions.

Customizing your Internet connection

The Internet Properties dialog box enables you to change the way you view the Internet. You can change your home page, fonts, language, and colors. You can also regulate content and set browsing preferences.

To open the Internet Properties dialog box

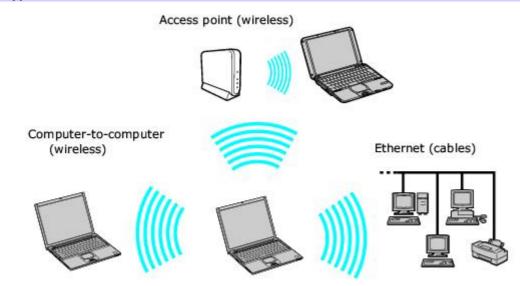
- 1. Click **Start** on the Windows® taskbar, and then **Control Panel**.
- 2. Click **Network and Internet Connections**, and then **Internet Options**. The **Internet Properties** dialog box appears.
- 3. Click the tabs to view options.
- 4. Make changes, and click **Apply** to activate your changes.
- 5. Click **OK**.

Network Connections

With a Sony computer, you can easily set up or connect to a variety of networks. The New Connection Wizard and Network Setup Wizard make it easy to gain access to networks (LANs) using wireless, Ethernet, or dial-up connections.

For more information about networking, click Start, Help and Support, and then Networking and the Web.

Types of Networks*



 $[\]ensuremath{^{*}}$ The computers represented in this graphic may not be identical to the model you purchased.

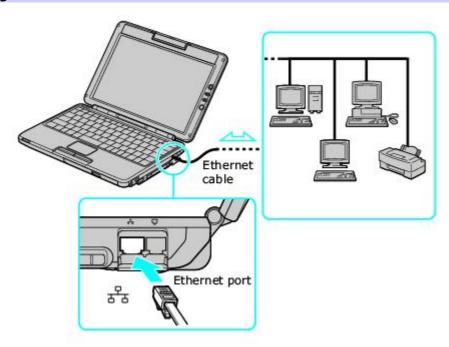
Using Ethernet and dial-up connections

For setting up local area networks (LANs), Ethernet is a widely installed technology. Your computer accommodates both 10BASE-T and 100BASE-TX Ethernet connections, with data transfer speeds of between 10 and 100 Mbps.

To connect to a local area network using a telephone or Ethernet cable

Connect an Ethernet or telephone cable to your computer. See <u>To connect an Ethernet cable</u> and <u>Setting up a dial-up Internet connection</u> for more information.

Connecting an Ethernet Cable



 Click Start, point to All Programs, Accessories, Communications, and click Network Setup Wizard. The Network Setup Wizard appears.

Network Setup Wizard



3. Click **Next**. If you are prompted to the **Local Information** dialog box, follow the on-screen instructions.

Only connect 10BASE-T and 100BASE-TX cables to the Ethernet port 3. Do not connect any other type of network cable or any telephone cable. Connecting cables other than those listed above may result in an electric current overload and could cause a malfunction, excessive heat, or fire in the port. To connect the unit to the network, see <u>Using Ethernet and dial-up connections</u> or contact your network administrator.

You can connect to an Ethernet network from a remote location and use data, programs, and network resources. See Microsoft® Windows® Help by clicking **Help and Support** from the **Start** menu, and then clicking **Networking and the Web** in the left panel.

To connect to a remote network using a telephone or Ethernet cable

- 1. Connect an Ethernet or telephone cable to your computer. See <u>To connect an Ethernet cable</u> and <u>Setting up a dial-up Internet connection</u> for more information.
- 2. From the Start menu, point to All Programs, Accessories, Communications, and click New Connection Wizard.
- 3. Click **Next**. If you are prompted to the **Local Information** dialog box, follow the on-screen instructions.
- 4. Click Connect to the network at my workplace, and then click Next.
- 5. Follow the on-screen instructions.
- 6. Ask your network administrator for the detailed settings and devices needed to connect to an existing network.

Using wireless network connections (selected models only)

A wireless local area network (LAN) is a network in which you can connect to a LAN through a wireless (radio) connection. You can opt to purchase a Sony Wireless LAN Access Point to set up a LAN.

The wireless LAN access point is designed for building a wireless LAN environment. Because a wireless LAN configuration requires no wiring, you can operate multiple computers more freely than ever before.

Your computer is equipped with a built-in mini PCI card that allows for wireless connections.

For more information on Sony Wireless LAN, go to http://www.sonystyle.com/vaio.

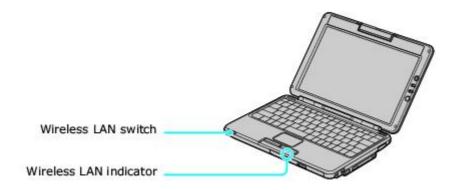
There are two types of wireless connections:

- An infrastructure network is one that extends an existing wired local network to wireless devices by providing an access point. The access point bridges the wireless and wired LAN and acts as a central controller for the wireless LAN. The access point coordinates transmission and reception from multiple wireless devices within a specific range. For more information, see To connect to a wireless network.
- A computer-to-computer (ad-hoc) network is one in which a local network is created only by the wireless devices themselves, with no other central controller or access point. Each device communicates directly with other devices in the network. You can set up an ad-hoc network easily at home. For more information, see To set up a computer-to-computer (ad-hoc) network.

To connect to a wireless network

- 1. Make sure an access point is set up. See the instructions that accompanied the access point for more information.
- 2. Move the Wireless LAN switch to **ON**.

Turning on the Wireless Network Switch



- 3. Click **Start, Control Panel, Network and Internet Connections,** and then click **Network Connections**. The **Network Connections** window appears.
- 4. In the right panel under **LAN or High-Speed Internet**, click **Wireless Network Connection**. The Wireless Network Connection window appears.

Wireless Network Connection

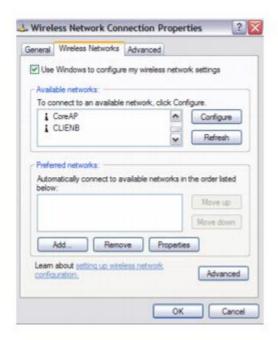


- 5. From the **Available wireless networks** list, select the name of the network in which you want to connect. If you do not see the network name, see <u>If the network does not appear in the Available wireless networks list box.</u>
- 6. If required, type the network key in the **Network key** box. (If necessary, ask the administrator for the key.)
- 7. Retype the network key in the **Confirm network key** box.
- Click Connect.

If the network does not appear in the Available wireless networks list box

Click Advanced on the Wireless Network Connection dialog box. The Wireless Network Connection Properties dialog box appears.

Wireless Network Connection Properties



2. Click **Add** in the **Preferred networks** box. The **Wireless network properties** dialog box appears.

Wireless Network Properties



3. Type the name of the network (access point) you want to connect to in the **Network name (SSID)** box.

The following steps are for networks that require a network key. If you do not know the network key or are not sure a network key is required, see the network administrator or the guide that accompanied your access point for more information.

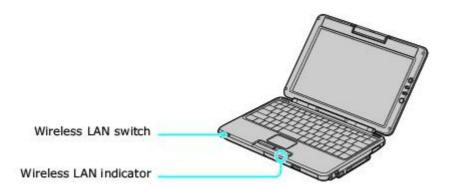
- 4. If available, make sure the **Data encryption (WEP enabled)** check box is selected. If the Data encryption (WEP enabled) check box is not available:
 - 1. Select an authentication method from the Network Authentication menu.
 - 2. Select a data encryption method from the Data Encryption menu.
 - Click to cancel the **The key is provided for me automatically** check box.
- 6. Type the network key in the **Network key** box if it is required by the selected authentication method.
- Retype the network key in the **Confirm network key** box.
- 8. Click **OK**. The network name appears in the **Preferred networks** list box.

To set up a computer-to-computer (ad-hoc) network

The computer-to-computer (ad-hoc) network is supported by the IEEE 802.11b wireless standard by means of the current WiFi standard.

Move the Wireless LAN switch to ON.

Turning on the Wireless Network Switch



2. Click **Start, Control Panel, Network and Internet Connections**, and then click **Network Connections**. The **Network Connections** window appears.

3. In the right panel under **LAN or High-Speed Internet**, click **Wireless Network Connection**. The Wireless Network Connection window appears.

Wireless Network Connection



4. Click Advanced. The Wireless Network Connection Properties dialog box appears.

Wireless Network Connection Properties



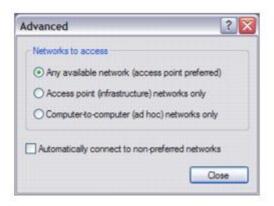
5. Click **Add**. The **Wireless network properties** dialog box appears.

Wireless Network Properties



- 6. Type the name of the network you want to connect to in the Network name (SSID) box.
- 7. If available, make sure the **Data encryption (WEP enabled)** check box is selected. If the Data encryption (WEP enabled) check box is not available:
 - 1. Select an authentication method from the Network Authentication menu.
 - 2. Select a data encryption method from the Data Encryption menu.
 - Click to cancel the **The key is provided for me automatically** check box.
- 9. Type a network key in the **Network key** box.
- 10. Retype the network key in the **Confirm network key** box.
- 11. Click to select This is a computer-to-computer (ad hoc) network; wireless access points are not used.
- 12. Click **OK**. The network name appears in the **Preferred networks** list box.
- 13. Click **Advanced**. The **Advanced** dialog box appears.

Advanced



14. Click to select Computer-to-computer {ad hoc} networks only, and then click Close.

To disconnect from a wireless network

For computers with built-in wireless LAN functionality, move the Wireless LAN switch to OFF.

Turning off the wireless LAN functionality while accessing remote documents, files, or resources may result in data loss.

To disconnect from a computer-to-computer (ad-hoc) network

- Click Start, Control Panel, Network and Internet Connections, and then click Network Connections. The Network Connections window appears.
- 2. In the right panel under **LAN or High-Speed Internet**, click **Wireless Network Connection Enabled**. The Wireless Network Connection Status window appears.
- 3. Click Properties. The Wireless Network Connection Properties dialog box appears.
- 4. On the **Wireless Networks** tab, click **Advanced**. The **Advanced** dialog box appears.
- 5. Click to select Any available network (access point preferred), and click Close.
- 6. Move the Wireless LAN switch to **OFF**.

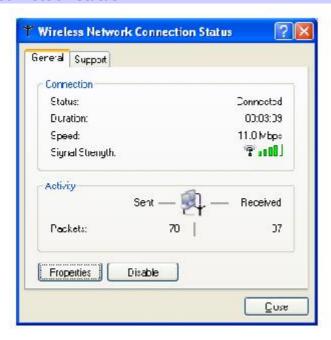
Checking your network connection status

Whether you have a wireless, Ethernet, or dial-up connection, you can check the status of that connection.

To check your network connection status

- 1. Click **Start** on the taskbar, and click **Control Panel**, **Network and Internet Connections**, and **Network Connections**. The **Network Connections** window appears.
- 2. Under **LAN or High-Speed Internet**, click the enabled network connection to open the connection status window.

Wireless Network Connection Status



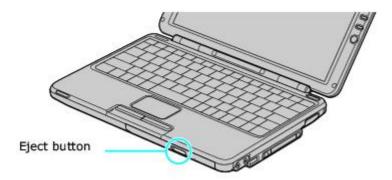
Inserting and Ejecting CDs or DVDs

Avoid using adhesive labels to identify your CDs or DVDs. Adhesive labels may damage the optical drive if they come off while the disc is in the drive.

To insert a disc

- 1. Turn on the computer or exit a power saving mode (Standby or Hibernate) if one is active. For more information, see <u>Using power saving modes</u>.
- 2. Press the Eject button on the optical drive cover to open the drive tray. The drive tray slides out.

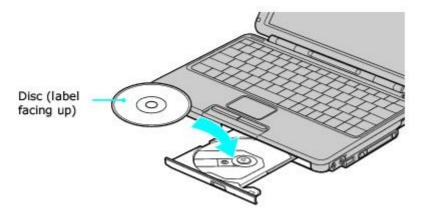
Opening the Drive Tray



3. Place a disc on the drive tray with the label facing up.

You can play some DVDs on both sides. Insert this type of DVD with the side you want to play facing up.

Inserting a Disc



4. Press the disc onto the tray until the disc clicks securely into place.

If you do not seat the disc firmly over the hub, the disc may come loose while it is in the drive. A loose disc may damage the optical drive and make opening the drive tray difficult.

5. Push the drive tray gently to close it. The Busy indicator on the drive cover blinks while your computer is reading data from the drive.

To eject a disc

- 1. Turn on the computer or exit a power saving mode (Standby or Hibernate) if one is active. For more information, see <u>Using power saving modes</u>.
- 2. Close all programs that access the optical drive, and wait for the Busy indicator on the drive cover to turn off.
- 3. Press the Eject button on the drive cover to open the drive tray. The drive tray slides out.

If the Eject button does not work, turn off the computer and insert a thin, straight object (such as a paper clip) into the manual eject hole next to the Eject button.

- 4. Lift the disc from the drive.
- 5. Push the drive tray gently to close it.

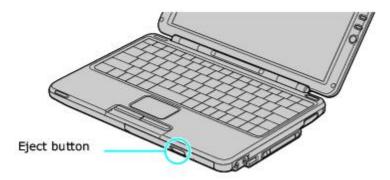
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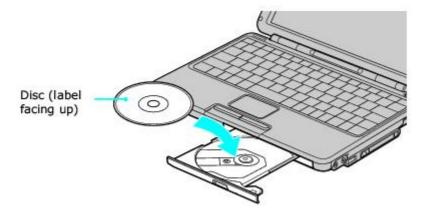
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- 5. Push the drive tray gently to close it.

Copying and Playing CDs and DVDs

Your computer plays and records CDs and DVDs, depending on the model you purchased. Check your specifications for the type of optical drive installed on your computer and use the table below to see which types of media your optical drive supports.

Optical Drive Media (disc) Support

CD-ROM Plays CD, CD-R, and CD-RW

CD-RW Plays CD, CD-R, and CD-RW

Records to CD-R and CD-RW

CD-RW/DVD-ROM Plays CD, CD-R, and CD-RW

Records to CD-R and CD-RW

Plays DVD and most DVD-R, DVD-RW, DVD+R, and DVD+RW

DVD-RW Plays CD, CD-R, and CD-RW

Records to CD-R and CD-RW

Plays DVD, DVD-R, and DVD-RW

Records to DVD-R and DVD-RW

DVD±RW Plays CD, CD-R, and CD-RW

Records to CD-R and CD-RW

Plays DVD, DVD-R, DVD-RW, DVD+R and DVD+RW

Records to DVD-R, DVD-RW, DVD+R, and DVD+RW

Do not remove the optical drive when the computer is in a power saving mode (Standby or Hibernate). Doing so may cause the computer to malfunction.

If you plan to use an external optical drive, connect the drive before you begin.

Playing CDs

Before you play an audio CD, you may need to enable your computer's audio feature.

To enable the audio feature

- 1. Click **Start** on the Windows® taskbar, and then click **Control Panel**, **Performance and Maintenance**, and **System**. The **System Properties** dialog box appears.
 - 🖾 As a shortcut, you can press Fn + Windows key 🌯 + Insert to open the System Properties dialog box.
- 2. Select the **Hardware** tab, and in the **Device Manager** box, click **Device Manager**. A window with a listing of the computer's hardware devices appears.
- 3. Double-click the optical drive device to open the submenu.
- 4. Double-click the listed drive, and select the **Properties** tab.
- 5. Click to select the **Enable digital CD audio for this CD-ROM device** check box if it is not already selected.
- 6. Click OK.

To adjust the volume for playing CDs and DVDs

Some programs have built-in volume controls, which you can adjust. If there are no volume controls, then adjust the volume of your computer's built-in speakers by doing one of the following:

- Using the Function keys. An on-screen display may appear, notifying you when a change occurs.
- To increase volume, press the **Fn** and **F4** keys, and then press ↑ or →.
- To decrease volume, press the **Fn** and **F4** keys, and then press Ψ or \leftarrow .
- Using the Volume icon.
 - Double click the Volume icon on the Taskbar Notification area. The Volume Control dialog box appears.
 - In the Volume Control and Wave columns, move the Volume sliders up to increase volume and down to decrease volume.

To play an audio CD

- 1. Insert the disc into the optical drive.
- If nothing appears on the desktop once you insert an audio CD disc, then click Start, point to All Programs, and click to open a CD program, such as SonicStage.
 If the Audio CD window appears, click to select an option.

Audio CD



Copying files to CDs

Before you copy files to a CD-RW or CD-R disc, read the following notes to avoid a computer malfunction and ensure the best results:

- Deactivate the screen saver and exit anti-virus software.
- Deactivate memory-resident disc utilities to avoid data loss.
- Disable the FindFast program if it is installed on your computer. Click Start and point to All Programs to see a list of programs on your computer.
- Connect and use the AC adapter to power your computer or make sure your battery is at least 50 percent charged. See <u>Powering Your Computer</u> for more information.

To copy files to a CD-RW or CD-R

1. Insert a blank CD-R or CD-RW disc into the optical drive. If the **CD Drive** window appears, click **Take no action**.

CD Drive



- 2. Open Windows Explorer by pressing the **Windows** key ** and the **E** key simultaneously.
- 3. In the **Folders** panel on the left, locate the file(s) or folder(s) you want to copy and either:
 - Right-click the file(s) or folder(s), point to Send To, and click the optical drive name.
 - Drag the file(s) or folder(s) onto the optical drive icon in the Files Stored on This Computer panel.
- 4. Close Windows Explorer.
- 5. Click **Start**, and **My Computer**.
- 6. Click the optical drive icon under **Devices with Removable Storage**. A new window appears with the file(s) or folder(s) you want to copy listed under **Files Ready to Be Written to the CD**.
- 7. In the CD Writing Tasks box, click Write these files to CD.
- 8. Follow the instructions on the **CD Writing Wizard**.

CD Writing Wizard



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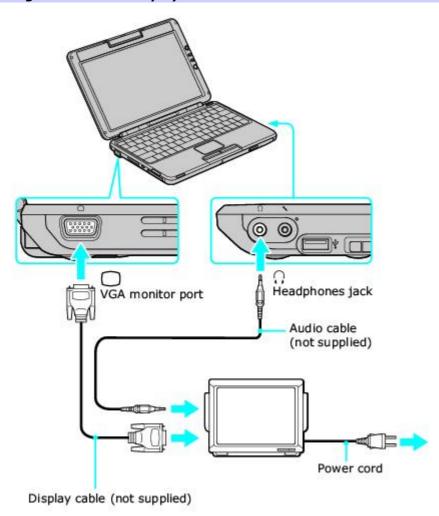
Do not strike or shake the computer while writing data to a disc.

±The read/write drive letter designation may vary, depending on your system's hardware configuration.

Playing DVDs

You can play DVDs in your computer's optical drive and view the video on a multimedia display.

Connecting a Multimedia Display



Do not remove the optical drive when the computer is in a power saving mode (Standby or Hibernate). Doing so may cause the computer to malfunction.

Connect the external optical drive if you plan to use one.

Playing DVDs on your computer

Your computer is equipped with an optical drive that enables you to watch DVDs and most DVD-R discs on your computer.

To play a DVD while using AC power

- 1. Close all open programs.
- 2. Insert the DVD into the optical drive.
- 3. Open a preinstalled DVD program, such as InterVideo WinDVD®, by following these steps:
 - 1. Click **Start** on the taskbar, and point to **All Programs**.
 - 2. Select a program, such as InterVideo WinDVD, to play the DVD. For instructions on how to use a program, see the help guide included with the DVD program

To play a DVD while using battery power

- 1. Set the power management profile to **DVD**.
 - 1. Close all open programs.
 - 2. Right-click the **CPU** icon on the **Taskbar Notification** area.
 - 3. Select **Profiles** from the shortcut menu, and then select **DVD** from the submenu. You can also select **Automatic Profile Selection**, which sets the power management profile to **DVD** whenever a DVD is inserted into the optical drive. See <u>Conserving Battery Power</u> for more information.
- 2. Insert the DVD into the optical drive.
- 3. Open a preinstalled DVD program, such as InterVideo WinDVD, by following these steps:
 - 1. Click **Start** on the taskbar, and point to **All Programs**.
 - 2. Select a program, such as InterVideo WinDVD, to play the DVD. For instructions on how to use a program, see the help guide included with the DVD program.

Some discs recorded at 20 or 24 bits may produce noise while playing. If you have audio devices connected, this may damage your hearing and the speakers. Reduce the volume before playing a DVD.

Do not switch power saving modes while the computer is playing a DVD.

Do not use memory-resident utility software to speed up disc access when playing a DVD. This may cause the computer to malfunction.

Using the MOTION EYE Camera

Your computer comes with a built-in MOTION EYE® camera. You can use the camera to capture still images and record movies.

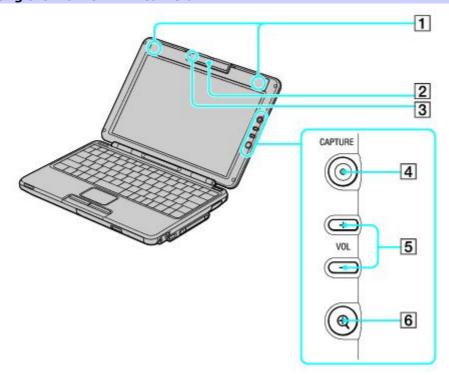
The VAIO Software Tutorials and the Network Smart Capture Help file contain more detailed information about using your MOTION EYE® Camera. For directions on where to locate these files, see <u>Locating the help files</u>.

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Locating the MOTION EYE Camera



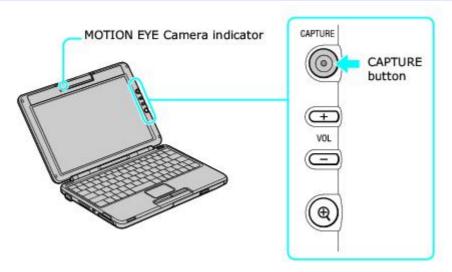
1 Speakers

- 4 CAPTURE button
- 2 MOTION EYE® Camera lens
- **5** Volume buttons
- 3 MOTION EYE® Camera indicator 6
- Magnify button

Capturing an image

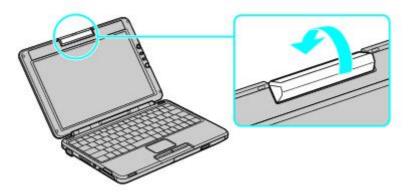
1. Press the **CAPTURE** button to start the Network Smart Capture program.

Using the CAPTURE Button



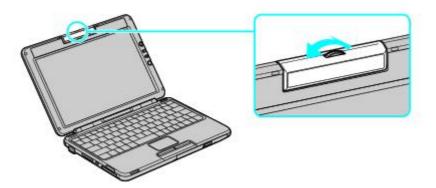
- Click one of the Capture Mode buttons: (Still), (Movie), or (Web Camera). The finder screen displays the image in real-time.
- 3. Rotate the MOTION EYE® camera lens toward the subject you want to photograph.

Rotating the MOTION EYE Camera



4. Rotate the focus ring to sharpen the image.

Adjusting the Focus Ring



See the VAIO Software Tutorials or the Network Smart Capture Help file for more information on how to adjust the camera settings and add an effect to the image you wish to capture.

5. Press the CAPTURE button on the computer, or click the **CAPTURE** button on the Network Smart Capture window. The image appears in the finder screen.

 \not You can capture still images in the following sizes: 640 \times 480, 320 \times 240, 160 \times 120, and 80 \times 60 pixels.

Toggling between multiple cameras

You can connect an external i.LINK digital video camera recorder or an external USB-compatible camera: to your computer. When you connect a new external camera while using Network Smart Capture, the computer automatically switches to that camera regardless of the priority setting. If you want to select a different camera in which to capture your images, follow these steps:

To select a camera

- 1. Press the **CAPTURE** button to start the Network Smart Capture program.
- 2. Connect the external camera to the computer.
- 3. Click the **Settings** button 💼. The setting window appears.
- 4. Click to select the Cam/Mic Selection tab.
- 5. Under the Camera Selection category, click the arrow to scroll through the Priority Camera menu.

The same camera may be shown in the Priority Camera menu with different device names, depending on the USB port in which the camera is connected.

- 6. Select the appropriate camera from the menu.
- 7. Click **OK** to change the priority setting.

1 Sony recommends using the built-in USB camera, which offers the same functionality as an external USB-compatible camera.

Locating the help files

To locate the Network Smart Capture Help file, click **Start** on the Windows® taskbar, point to **All Programs** and **Network Smart Capture**, and then click **Help**.

Software help files are also posted on the Welcome to VAIO Life Web site. Click **Start** and select **Welcome to VAIO Life** to locate this site.

Notes on using the MOTION EYE camera

- Do not touch the camera lens, as dirt may accumulate and degrade picture quality.
- Do not point the camera toward the sun.
- You cannot detach the camera.
- Network Smart Capture is unavailable while other software that uses the built-in camera is in use. Close all software that uses the built-in camera before you use Network Smart Capture.
- You cannot transfer still images or video clips from the built-in camera while transferring to connected i.LINK® devices.
- Take an initial shot before taking a final shot to ensure sound and picture quality.
 - You can adjust the sound quality for different sound environments. Follow these steps:
 - 1. Click **Start** on the Windows® taskbar and **Control Panel**.
 - 2. Click Sounds, Speech, and Audio Devices and Sounds and Audio Devices, and then click the Audio tab.
 - 3. Click the **Volume** button in the Sound Recording category.
 - 4. Adjust the volume level with the microphone slider.
 - Your recording is not guaranteed.
- If your recording fails due to conditions unfavorable to the camera, the contents of your recording cannot be guaranteed.
- Clean the lens regularly. Picture quality is adversely affected when the lens is dirty. Use a non-abrasive lens cleaning cloth and approved lens cleaning fluid.

Printer Connections

Your computer is compatible with many popular printers. However, to ensure the best performance, printers must be compatible with the Microsoft® Windows® operating system installed on your computer.

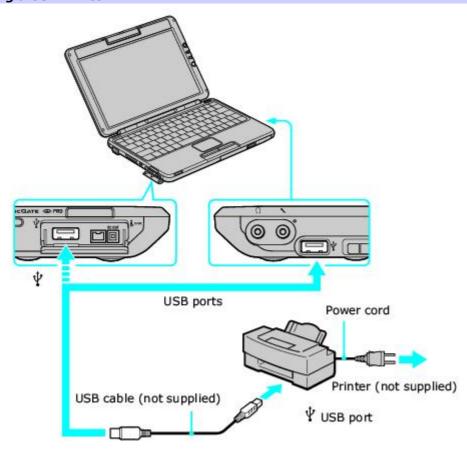
Connecting a USB Printer

You can connect a universal serial bus (USB) printer to your computer. The new hardware wizard enables you to easily install the printer software, but some printers require separate driver software installation. See the instructions that accompanied your printer for more information.

To connect a USB printer

- Plug the USB cable into the USB port Ψ on your computer or port replicator, if applicable. See "Locating Controls and Ports" in the "Setting Up" chapter of your printed VAIO Computer Quick Start.
- Plug the other end of the USB cable into the USB port on the printer. The Found New Hardware Wizard appears.

Connecting a USB Printer



🖾 See the guide that accompanied the printer for more information on its installation and use.

Disconnecting a Printer

You can disconnect the printer cable when the computer is on or off. Disconnecting a printer when the computer is in a power saving mode (Standby or Hibernate) may cause the computer to malfunction.

To disconnect a printer

Unplug the printer cable from the computer.

Computer Features

Using the Touch Pad

A pointing device called a touch pad is located in front of the keyboard. You can point to, select, drag, and scroll objects on the screen using the built-in touch pad.

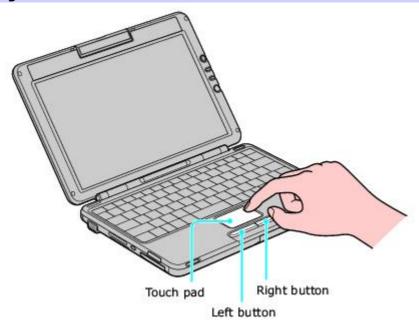
Computer Features

Using the Touch Pad

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Describing the touch pad

Locating the Touch Pad



Touch Pad Action	Description
Sliding one finger	Equivalent to using a mouse to place the pointer on an item.
Tapping once	Equivalent to pressing the left button once.
Tapping twice	Equivalent to pressing the left button twice.

Sliding one finger while pressing the left button Equivalent to using the mouse to drag an item.

Moving your finger along the right edge of the touch pad Equivalent to scrolling vertically. (The scroll function is available only with programs that support a touch pad scroll feature.)

Moving your finger along the bottom to scroll horizontally Equivalent to scrolling horizontally. (The scroll function is available only with programs that support a touch pad scroll feature.)

Customizing the touch pad

Sony Notebook Setup lets you customize, enable, or disable the touch pad. Open the Mouse Properties dialog box to set your touch pad and mouse preferences, such as changing pointers, enabling or disabling the tapping feature, clicking both buttons simultaneously, and adjusting the touch pad speed.

To customize the touch pad and mouse

Right-click the **Touchpad** icon on the **Taskbar Notification** area, and click **Mouse Properties** from the shortcut menu. The **Mouse Properties** dialog box appears.

To enable the touch pad

- 1. Press the **Windows** key ** . The **Start** menu appears.
- 2. Press **P** until **All Programs** is selected, and press **Enter**.
- Press S until Sony Notebook Setup is selected, and press Enter. A submenu appears with Sony Notebook Setup preselected.
- 4. Press **Enter**. The **Sony Notebook Setup** dialog box appears.
- 5. Press the **Right Arrow** key to select the **Device** tab.
- 6. Press the **Tab** key to select the **Default** button, and press **Enter**. A pop-up window appears.
- 7. Press the **Left Arrow** key to select **OK**, and press **Enter**. The **Enable Touchpad** option is automatically selected.
- 8. Press the **Tab** key to select the **Apply** button, and press **Enter**.
- 9. Click **OK**.

To disable the touch pad

- 1. Click **Start** on the Windows® taskbar, and point to **All Programs**.
- Point to Sony Notebook Setup, and click Sony Notebook Setup in the submenu. The Sony Notebook Setup
 dialog box appears.
- 3. Click the **Device** tab.
- 4. In the left panel, click to cancel the **Pointing Device** check box.
- 5. Click **Apply**. A Sony Notebook Setup message appears.
- 6. Click **Yes**.

Using Memory Stick Media

Your VAIO® computer is equipped with a Memory Stick® slot that supports certain types of Memory Stick® media.

About Memory Stick media

Memory Stick® media are a compact, portable, and versatile data storage media designed for exchanging and sharing digital data with compatible devices. You can store different data formats on a single Memory Stick media. The following types of Memory Stick media are available, but compatibility with your computer can vary.

- MagicGate Memory Stick media (MG Memory Stick media) Provides copyright protection with authentication and encryption, using Sony® MagicGate technology. Authentication ensures that protected content is only transferred between compliant devices and media. Protected content can be recorded and transferred in an encrypted format to prevent unauthorized duplication or playback.
- Memory Stick PRO media Provides MagicGate copyright protection and high-speed transfer features when used
 with compatible Memory Stick PRO devices. VAIO® computers support Memory Stick PRO media for data storage
 purposes only. Currently, MagicGate technology features such as authentication and encryption are not available.
- Memory Stick media Provides data storage only. The Memory Stick media does not provide MagicGate technology or high-speed data transfer.

Currently, Sony® SonicStage and OpenMG software are not compatible with the new Memory Stick PRO media. Sony suggests using only MG Memory Stick media to store and transfer any data created with SonicStage or OpenMG software.

Visit the Sony Computing Support Web site at http://www.sony.com/pcsupport regularly for the latest information on the new Memory Stick PRO media.

Memory Stick media do not support video file playback directly from the media. Copy the video file to your hard disk drive and then play back the file.

Inserting Memory Stick media

Before using Memory Stick® media, back up important data. The media slot accommodates only one Memory Stick media at a time.

To insert Memory Stick media

- 1. Insert the Memory Stick media with the arrow facing up and toward the Memory Stick media slot.
 - Inserting the media in the wrong direction may damage the connector pins.
- 2. Carefully slide the Memory Stick media into the slot until it clicks in place. The Memory Stick media indicator briefly blinks.

Inserting Memory Stick Media



Viewing the contents

Depending on the model you purchased, the Sony Memory Stick window may appear when you insert a Memory Stick® media. From this window, you can choose to view, print, copy or organize your Memory Stick images or data. If the Sony Memory Stick window does not appear when you insert your Memory Stick media, then follow these steps:

To view the contents

- 1. From the **Start** menu, click **My Computer**. The **My Computer** window appears.
- 2. Click **MemoryStick**. The **MemoryStick** window appears, displaying the contents stored on the Memory Stick media.

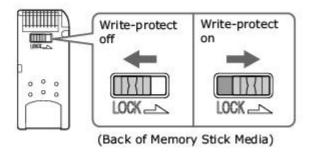
Write-protecting Memory Stick media

Memory Stick® media is designed with a write-protect tab to protect data from accidental erasure or overwriting. Move the tab to the right or left to set or release write-protection. When the write-protect tab of the Memory Stick media is set to LOCK, data cannot be recorded or erased.

Write-protect off Data can be saved on the Memory Stick media.

Write-protect on Data can be read from but not saved on the Memory Stick media.

Using the Write-Protect Tab



Formatting Memory Stick media

Memory Stick® media is formatted for immediate use when you purchase it. If you need to reformat Memory Stick media, use the Memory Stick Formatter that is provided with the media. For more information about using Memory Stick Formatter, refer to Formatter Help.

Formatting Memory Stick media erases all data, including music data, previously saved to it. Before you reformat Memory Stick media, confirm that the media does not contain files you want to keep. Back up important data before formatting the media.

To format Memory Stick media

- Insert the Memory Stick media into the Memory Stick media slot. See <u>To insert Memory Stick media</u> for more information.
- 2. From the **Start** menu, click **My Computer**. The **My Computer** window appears.
- 3. Right-click **MemoryStick**, and click **Format** from the menu. The **Format MemoryStick** dialog box appears.
- 4. Select **Quick Format** in the **Format options** box, and then click **Start**.

Removing Memory Stick media

If the Memory Stick® media is removed prematurely, a blue screen with a message may appear prompting you to continue or exit. Reinsert the media into the slot and press **Enter** to continue. This enables the media to finish reading or writing data.

To remove Memory Stick media

- 1. Wait a minimum of 10 seconds after the Memory Stick media finishes reading or writing data before removing the media.
- 2. Make sure the access light is off.
- 3. Push the Memory Stick media in toward the computer.
- 4. When the Memory Stick media ejects, pull it out.
- In the Memory Stick media may eject completely from the slot.

Using the Multilingual User Interface Language Option

(Microsoft® Windows® XP Professional only) After you have initially setup your new VAIO® computer, you can change the language displayed in Microsoft® Windows® XP Professional operating system. The multilingual user interface (MUI) language option changes the text controlled by Windows XP Professional operating system. Menus, help files, and icons generated by Windows XP Professional are shown in your selected language. All other programs are displayed in English as the default language.

The multilingual user interface language option is not designed to replace a localized version of the Microsoft® Windows® XP Professional operating system. Under certain conditions, some third-party software applications may not function properly.

To Change the Language Option

- 1. Click **Start** on the Windows® taskbar, and then click **Control Panel**.
- Click Date, Time, Language and Regional Options, and then click Regional and Language Options. The Regional and Language Options dialog box appears.
- 3. Click the Languages tab.
- 4. From the Language used in menus and dialogs shortcut menu, select the desired language:
 - English
 - español
 - Português
 - francais
- 5. Click **Apply**. The **Change Regional Options** shortcut window appears.
- Click OK.
- 7. Click **Start** on the Windows® taskbar, and then click **Logoff**.

🖾 Additional users can also change to their desired language(s) without affecting your existing language settings.

Changing Numbers, Currency, Time, and Date Formats

You can change your operating system's number, currency, time, and date formats to coordinate with your chosen country or language settings.

To change these formats

- 1. Click **Start** on the Windows taskbar, and then click **Control Panel**.
- 2. Click **Date, Time, Language and Regional Options**, and click **Regional and Language Options**. The **Regional and Language Options** dialog box appears.
- 3. From the **Regional Options** tab, click the **Standards and formats** shortcut menu to view the available country choices. Select the desired country.
- 4. Click **Customize** to change the number, currency, time, and date settings.
- 5. Click Apply.
- 6. Click **OK**.
- 7. Click **OK**.

Changing the Window Design of Sony Programs

This feature changes the appearance, such as color, of certain Sony programs.

To change the window design

- 1. Click **Start**, and then **Control Panel**.
- 2. In the left panel, click **Switch to Classic View**.
- 3. Double-click **UI Design Selector**.
- 4. Click << or >> to view the designs.
- 5. Click **Apply** to select a design that appears in the center window. The **UI Design Selector** window design changes. The window design of certain Sony programs will match the **UI Design Selector** window.
- 6. Click **OK**.

Using the Keyboard

Although your computer's keyboard is very similar to a typewriter's keyboard, you can use the additional keys on the computer's keyboard to perform specific computer-related tasks.

Using the Keyboard

Although your computer's keyboard is very similar to a typewriter's keyboard, you can use the additional keys on the computer's keyboard to perform specific computer-related tasks.

Keyboard descriptions

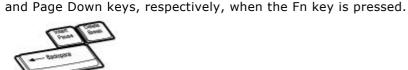
Key

Description



The numeric keypad contains the keys found on a typical calculator. Use the numeric keypad to type numbers or perform mathematical calculations, such as addition and subtraction. Numbers appear on the front beveled edge of the numeric keys. Press the Num Lock key to activate the numeric keypad. (When you do so, the Num Lock indicator light turns on.) Press the Num Lock key again to deactivate the numeric keypad.

The arrow keys move the pointer on the screen. They also function as the Home, End, Page Up,



The correction keys enable you to make corrections to keystrokes.



The 12 function keys along the top of the keyboard perform designated tasks. For example, in many programs, F1 is the Help key. The task associated with each function key may vary from one program to the next.



The Escape key cancels commands.



The Print Screen key takes an electronic snapshot of the screen and moves it to the Clipboard. You can then paste the screen shot into a document and print it.



The operator keys provide a variety of commands. For example, in many programs, instead of choosing the Save command from a menu, you can hold down **Ctrl** and press **S** (referred to as **Ctrl+S**). Also, the Shift key to produces capital letters or special symbols, such as @ and \$.



The Windows key opens the Start menu. It is the equivalent of clicking Start on the Windows® taskbar. See <u>Windows key combinations</u> for more information.



for more information.

The Fn key is used in combination with other keys to issue commands. See <u>Fn key combinations</u>



The Applications key opens a shortcut menu of context-sensitive choices. It is the equivalent of clicking the right mouse button.

Windows key combinations

Fn+ * +Insert

System from the Start menu.

Function Function Function Figure 4: F1 Displays the VAIO Help and Support Center window. Switches the selected button on the taskbar. Displays the desktop. Figure 4: F2 Displays the My Computer window. Figure 4: F3 Displays the Search Results window, where you can find a file or folder. This is the equivalent of selecting Start menu. Figure 4: F4 Displays the Search Results - Computers window, where you can locate other computers. This is the equivalent of selecting Search, and then Computer from the Start menu. Figure 4: F4 Displays the Search Results - Computers window, where you can locate other computers. This is the equivalent of selecting Search, and then Computer from the Start menu. Figure 4: F4 Displays the Returns all minimized windows to their previous size. Figure 5: F4 Displays the Returns all minimized windows. This is the equivalent of selecting Run from the Start menu.

Displays the System Properties window. This is the equivalent of selecting Control Panel, and then

Indicator lights

Indicator Function

Power		

Turns on when the power to the computer is on, blinks in Standby mode, and turns off when the computer is in Hibernate mode or off.

Battery

Turns on when the computer is using battery power, blinks when the battery is running out of power, double-blinks when the battery is charging.

Memory Stick®

Turns on when data is read from or written to the Memory Stick media. (Do not enter Standby mode or turn off the computer when this indicator is on.) When the indicator is off, the Memory Stick media is not being used. Hard Disk

Turns on when data is read from or written to the hard disk. Do not enter Standby mode or turn off the computer when this indicator is on.

Num Lock

Press this key to activate the numeric keypad. Press it a second time to deactivate the numeric keypad. The numeric keypad is not active when the indicator is off. Caps Lock

Press this key to type letters in uppercase. Letters appear in lowercase if you press Shift while the indicator is on. Press the key a second time to turn off the indicator. Normal typing resumes when the Caps Lock indicator is off. Scroll Lock

Press this key to change how you scroll the display. Normal scrolling resumes when the Scroll Lock indicator is off. The Scroll Lock key functions differently depending on the program you are using and does not work with all programs. Wireless

LAN¹ Turns on when the wireless LAN function is running.

¹On selected models only.

Fn key combinations

Key combination Function

Fn+F3 Toggles the built-in speakers off and on.

Fn+F4 Adjusts the built-in speaker volume. An on-screen display appears notifying you when a change occurs.

To increase volume, press the $\mathbf{Fn+F4}$ keys and then press the \uparrow or \rightarrow key.

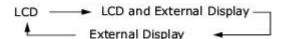
To decrease volume, press the $\mathbf{Fn+F4}$ keys and then press the $\mathbf{\Psi}$ or $\mathbf{\leftarrow}$ key.

Fn+F5 Adjusts the brightness of the computer screen (LCD).

To increase brightness, press the $\mathbf{Fn+F5}$ keys and then press the \uparrow or \rightarrow key.

To decrease brightness, press the **Fn+F5** keys and then press the $\stackrel{\bigstar}{ullet}$ or $\stackrel{\bigstar}{ullet}$ key.

Fn+F7 Toggles the display between the computer screen (LCD), a connected external display, and both the LCD and an external display.



Select one display when playing a DVD. Connect the cable(s) before you turn on the computer; otherwise, Fn+F7 will not work. You cannot use the Fn+F7 function to switch between the LCD and an external display once a DVD is inserted into the optical drive.

Fn+F12 Puts the system into Hibernate mode, a power management state. To return the system to normal operating mode, press the power button. Hibernate mode consumes the lowest level of power.

Fn+Esc Puts the system into Standby mode, a power management state. To return the system to the active state, press any key or the power button.

Connecting External Mice and Keyboards

Your computer is compatible with many popular mice and keyboards. To function properly, the device you connect must be compatible with the Microsoft® Windows® operating system installed on your computer.

Connecting a mouse or keyboard

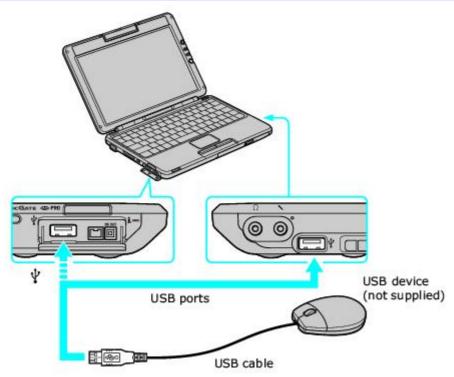
If you connect the mouse or keyboard when the computer is on, you may need to restart the computer for it to recognize the device.

To connect a USB mouse or keyboard to your computer

- 1. Plug the USB cable into the USB port \(\frac{\psi}{2} \). See "Locating Controls and Ports" in the "Setting Up" chapter of your printed \(\mathbb{VAIO} \in \mathbb{Computer Quick Start.} \) (One USB port supports one USB connection.)
- 2. If the **New Hardware Wizard** appears, follow the on-screen instructions to complete the installation process.

Although the New Hardware Wizard guides you through the software installation, some devices require separate driver software installation. See the instructions that accompanied your mouse or keyboard for more information

Connecting a USB Mouse or Keyboard



Disconnecting a mouse or keyboard

You can disconnect a USB mouse or keyboard when the computer is on or off. Disconnecting the mouse or keyboard when the computer is in a power saving mode (Standby or Hibernate) may cause the computer to malfunction.

To disconnect a mouse or keyboard

Unplug the USB cable from the USB port.

Using a Floppy Disk Drive

You can connect a floppy disk drive to your computer. The floppy disk drive enables you to read or write data to a floppy disk.

Using a Floppy Disk Drive

You can connect a floppy disk drive to your computer. The floppy disk drive enables you to read or write data to a floppy disk.

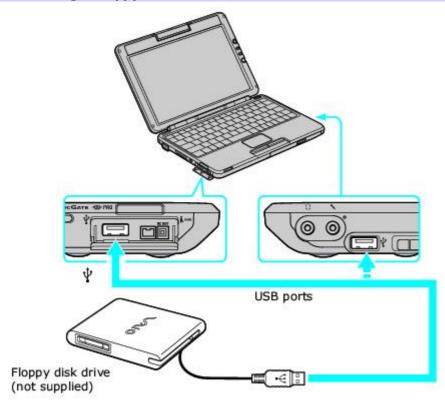
Connecting a floppy disk drive

You can connect a floppy disk drive when your computer is on or off. Connecting the drive when the computer is in a power saving mode (Standby or Hibernate) may cause the computer to malfunction.

To connect a USB floppy disk drive

- 1. Close any active programs to prevent data loss.
- 2. Plug the USB cable (with the USB icon Ψ facing upward) into the USB port Ψ . The **Found New Hardware** pop-up message appears.

Connecting a Floppy Disk Drive



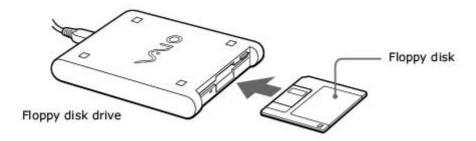
Inserting and removing floppy disks

To write data to a disk, use one that is not write-protected or disable the write-protect feature. The floppy disk drive cannot write data to a disk if it is inserted into the drive improperly.

To insert a floppy disk

- 1. Hold the floppy disk with the label facing up.
- 2. Push the floppy disk into the drive until it clicks into place.

Inserting a Floppy Disk



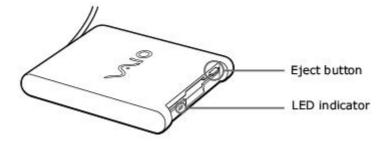
Do not open the shutter manually and touch the surface of the floppy disk.

To remove a floppy disk

- 1. Close all programs that access the floppy disk.
- 2. Wait for the LED indicator on the floppy disk drive to turn off.
- 3. Push the Eject button, and remove the disk.

To avoid losing data, do not push the Eject button when the LED indicator is on.

Removing a Floppy Disk



Protecting floppy disks

- Do not open the shutter manually or touch the surface of the floppy disk.
- Keep floppy disks away from magnets, direct sunlight, and heat sources.

Disconnecting a floppy disk drive

You can disconnect a USB floppy disk drive when the computer is on or off. Disconnecting the drive when the computer is in a power saving mode (Standby or Hibernate) may cause the computer to malfunction.

- 1. Close all programs accessing the floppy disk drive.
- 2. Double-click the **Safely Remove Hardware** icon on the taskbar. The **Safely Remove Hardware** window appears.
- 3. Select the floppy disk drive in the Hardware devices window, if it is not already selected.
- 4. Click **Stop**. The **Stop a Hardware device** window appears.
- 5. Make sure the **floppy disk drive is selected**, and click **OK**. A message appears stating it is now safe to remove the hardware device.
- 6. Remove the floppy disk drive from the computer.

Storing a floppy disk drive

Fold the floppy disk drive cable and connector into the side compartment on the floppy disk drive.

Storing a Floppy Disk Drive



Using PC Cards

Your computer includes one or more PC Card slots. A PC Card enables you to connect devices such as an optical drive, floppy disk drive, or Network Interface Card (NIC).

See your VAIO® Computer Specifications for the type of PC Card that is compatible with your computer. These slots are compatible with CardBus. If your computer has more than one PC Card slot, use the lower slot for Type III PC Cards. You do not need to turn off your computer to insert or remove a PC Card.

Inserting PC Cards

Some PC Cards may require you to disable idle devices when using the PC Card. You can use Sony Notebook Setup to disable these devices.

To open Sony Notebook Setup

- 1. Click **Start** on the Windows taskbar, and then click **All Programs**.
- 2. Point to Sony Notebook Setup, and click Sony Notebook Setup. The Sony Notebook Setup dialog box appears.

To insert a PC Card

- 1. Make sure the front label of the PC Card is facing up.
- 2. Push the PC Card gently into the slot. The system automatically detects the PC Card.

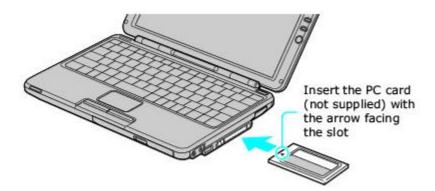


Do not force a PC Card into the slot; this may damage the connector pins.

When a PC Card is inserted, do not place your computer in a bag or case. Pressure or shock to a PC Card may damage your computer.

Touching the head of the PC Card will not damage the connector pins, but damage may occur if the head of the PC Card is sticking out of the PC Card slot while the computer is being transported.

Inserting a PC Card



Removing PC Cards

You can remove PC Cards while the computer is on or off. PC Cards draw power from the computer when they are inserted into the PC Card slot, whether or not you use the card.

If you are not using your PC Card and you are using a battery as a power source, remove the PC Card from the PC Card slot to conserve battery power.

To remove a PC Card while your computer is on

- 1. Double-click the **Safely Remove Hardware** icon on the taskbar. The **Safely Remove Hardware** dialog box appears.
- 2. Click to select the PC Card in the **Hardware devices** window, if it is not already selected.
- 3. Click **Stop**. The **Stop a Hardware device** window appears.
- 4. Make sure the PC Card is selected, and click **OK**. A message appears stating it is safe to remove the hardware device.
- 5. Push the Release button. The Release button pops out.
- 6. Push the Release button a second time. The PC Card pops out.
- 7. Gently pull the card out of the slot.

To remove a PC Card while the computer is off

- 1. Push the Release button once. The Release button pops out.
- 2. Push the Release button a second time. The PC Card pops out.
- 3. Gently pull the card out of the slot.

i.LINK Optical Drives

The i.LINK®1 drive, once it is connected to your computer, enables you to use the preinstalled software to create CDs and DVDs or play DVDs.

The Sony i.LINK optical drive is only compatible with certain Sony VAIO® PCG series computers that are preinstalled with Microsoft® Windows® XP Home Edition or Professional software.

i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connection. The i.LINK connection may vary, depending on the software applications, operating system, and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other. Refer to the documentation that came with your compatible i.LINK device for information on operating conditions and proper connection. Before connecting compatible i.LINK PC peripherals to your system, such as CD-RW or hard disk drive, confirm their operating system compatibility and required operating conditions.

Connecting an i.LINK Optical Drive

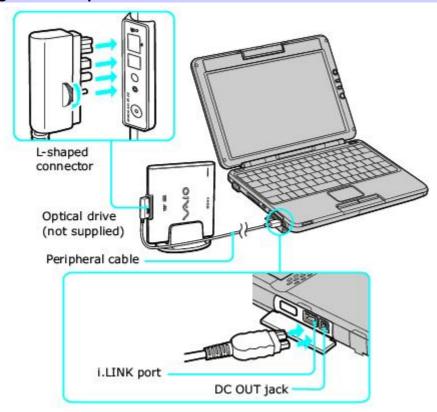
The i.LINK® optical drive draws power from the computer through a cable. You must connect the cable to both the i.LINK port and DC OUT jack on your computer.

Do not use the i.LINK optical drive and a PC Card drive at the same time. Connecting both devices may cause the computer to malfunction.

To connect an i.LINK optical drive

- 1. Close any active programs to prevent data loss.
- 2. Insert the L-shaped connector on the cable (supplied with the i.LINK® optical drive) into the matching port on the rear panel of the i.LINK optical drive.

Connecting an i.LINK Optical Drive



- 3. Turn the **LOCK** device clockwise to secure the L-shaped connector.
- 4. Insert the two-prong cable connector into both the i.LINK port and DC OUT jack on the computer. The i.LINK drive power indicator turns on, and the computer automatically detects the connected drive.

To use the i.LINK optical drive

- Leaful Click Start, and then click My Computer. The My Computer window appears.
- Double-click the compact disc drive icon under **Devices with Removable Storage**. The compact drive window appears.

To disconnect the i.LINK optical drive

- 1. Close any active programs to prevent data loss.
- Double-click the Safely Remove Hardware icon on the taskbar. The Safely Remove Hardware window appears.
- 3. Select the i.LINK® drive in the Hardware devices window, if it is not already selected.
- 4. Click **Stop**. The **Stop a Hardware device** window appears.

- 5. Make sure the **i.LINK drive** is selected, and click **OK**. A message appears stating it is now safe to remove the hardware device.
- 6. Unplug the i.LINK optical drive from the i.LINK port and DC OUT jack on the computer.

¹ If you connect and use an i.LINK optical drive when your computer is running on battery power, the battery life will be reduced.

Using i.LINK Digital Video Recorders

You can connect a digital video (DV) recorder, such as an i.LINK® digital video camera recorder, to the i.LINK® S400 (IEEE 1394) port on your computer. A digital video camera recorder is an external device that enables you to record and view digital images.

i.LINK is a trademark of Sony used to designate that a product contains an IEEE 1394 connector. The i.LINK connection may vary, depending on the software application, operating system, and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other. Refer to the documentation that came with your compatible i.LINK device for more information on operating conditions and proper connection. Before connecting compatible i.LINK PC peripherals to your system, such as a CD-RW or hard disk drive, confirm their operating system compatibility and required operating conditions.

Using i.LINK Digital Video Recorders

You can connect a digital video (DV) recorder, such as an i.LINK® digital video camera recorder, to the i.LINK® S400 (IEEE 1394) port on your computer. A digital video camera recorder is an external device that enables you to record and view digital images.

i.LINK is a trademark of Sony used to designate that a product contains an IEEE 1394 connector. The i.LINK connection may vary, depending on the software application, operating system, and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other. Refer to the documentation that came with your compatible i.LINK device for more information on operating conditions and proper connection. Before connecting compatible i.LINK PC peripherals to your system, such as a CD-RW or hard disk drive, confirm their operating system compatibility and required operating conditions.

Connecting an i.LINK digital video recorder

You can connect an i.LINK digital video (DV) recorder when the computer is on or off. Connecting the DV recorder when the computer is in a power saving mode (Standby or Hibernate) may cause the computer to malfunction.

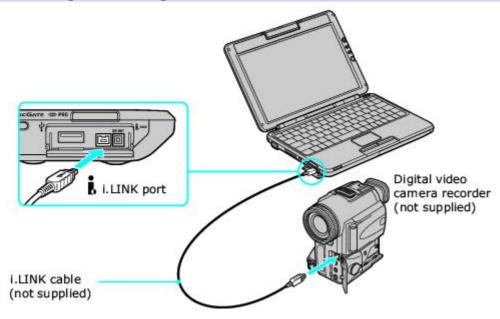
Before you connect an i.LINK digital video recorder

- Do not connect more than one digital video camera recorder at a time. The preinstalled programs on your computer will not recognize multiple cameras.
- Do not connect an external device that requires power from the i.LINK port. The i.LINK port does not supply power
 to the external device.
- The i.LINK port supports transfer rates of up to 400 Mbps; however, the actual transfer rate is the lowest transfer rate of the external device.
- The i.LINK features available may vary depending on the programs you use. See the help guide that accompanied your program for more information.

To connect an i.LINK digital video recorder

- 1. Turn on the digital video (DV) device and the computer.
- 2. Plug the i.LINK® cable into the i.LINK port on the DV device.
- 3. Plug the other end of the i.LINK cable into the i.LINK port on your computer. The **Found New Hardware** window appears on the lower right corner of your screen.

Connecting an i.LINK Digital Video Camera Recorder



See the guide that accompanied your digital video camera recorder for more information on its installation and use.

Disconnecting the i.LINK digital video recorder

You can disconnect the digital video recorder while the computer is on or off. Simply unplug the i.LINK cable from the i.LINK port on the computer. Disconnecting the cable when the computer is in a power saving mode (Standby or Hibernate) may cause the computer to malfunction.

Using a digital video camera recorder

Your computer comes with preinstalled driver software that is compatible with most Sony digital video camera recorders. If you purchased a camera that comes with its own driver software, install these drivers before you use the camera.

To view images

You can view images captured by your digital video camera recorder three different ways. Select one set of instructions from the following list:

- If your digital video camera recorder is compatible with the preinstalled programs, the **Digital Video Device** window appears when you connect the camera to the computer. Select the program you want to use in this window, and click **OK**.
- Click Start, and click All Programs. Select a program in which to view your images.

Using Computer Monitors and Projectors

You can connect an external display (such as a computer monitor or a projector) to your computer.

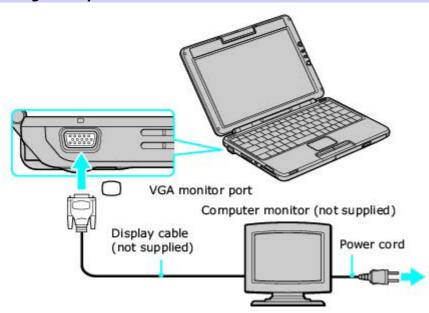
Connecting a computer monitor

Your computer can display images to the computer screen (LCD), to an external computer monitor, or to both the LCD and external monitor while your computer is on.

To connect a computer monitor

- 1. Make sure the computer monitor is plugged into an AC outlet.
- 2. Plug the display cable into the VGA monitor port on the computer.
- 3. If it is not already on, turn on the computer monitor.
- 4. Press the **Fn+F7** keys to toggle the display between your computer, the monitor, or both the computer and monitor.

Connecting a Computer Monitor



Connecting a multimedia device

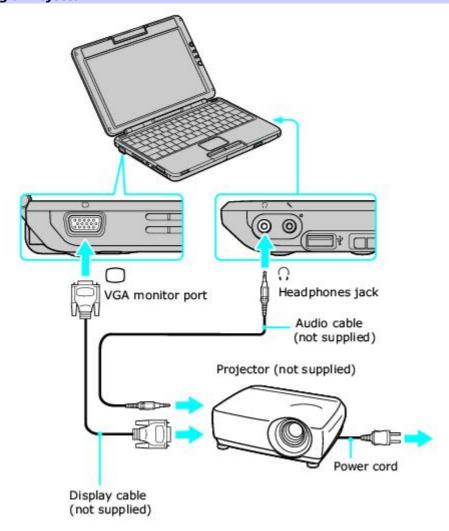
You can connect a multimedia device, such as a multimedia computer monitor or projector, to your computer. Connecting a multimedia device enables you to display images on your computer screen (LCD), the multimedia device, or both.

To connect a multimedia computer monitor or projector

- 1. Plug the device into an AC outlet.
- 2. Plug the video cable into the VGA monitor port \square on your computer. If you are using a multimedia computer monitor, which has built-in speakers and a microphone, plug the audio cable into the Headphones jack Ω on your computer to hear sound.

To locate the VGA monitor port and Headphones jack, see "Locating Controls and Ports" in the "Setting Up" chapter of your printed VAIO® Computer Quick Start.

Connecting a Projector



- 3. Turn on the device (if it is not already on), and then turn on your computer.
- 4. Press the **Fn+F7** key combination to toggle the display between your computer, the monitor, or both. See <u>Selecting a display</u> for more information.

 $m{\angle}$ See the guide that accompanied your projector for more information on its installation and use.

Selecting a display

When you connect an external display (projector or computer monitor) to your computer, you can switch the display between the computer screen (LCD), the external display, or both, using shortcut keys or the Display Properties settings.

Shortcut keys Result

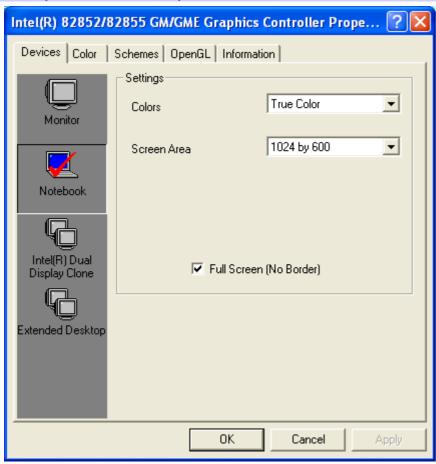
Fn+F7 Toggles the display between the computer screen (LCD), a connected external display, such as a monitor or projector, and both the LCD and external display.

Select one display at a time. Connect the cable before you turn on the computer; otherwise, Fn+F7 keys will not work.

To switch the display using the Display Properties settings

- 1. Plug the display cable into the VGA monitor port on your computer.
- Right-click the desktop, and click **Properties** from the shortcut menu. The **Display Properties** dialog box appears.
- 3. Click the **Settings** tab, and then click **Advanced**. The **Sony Notebook LCD and Intel(R)** ... dialog box appears.
- 4. Click the Intel® Extreme Graphics tab, and then click Graphics Properties.

Intel® Graphics Controller Properties



5. On the **Devices** tab, click either **Monitor**, **Intel(R) Dual Display Clone**, or **Extended Desktop**, depending on your display preferences.

You may not be able to display the computer screen (LCD) and an external display or projector at the same time, depending on the types of computer displays and projectors you are using.

Disconnecting a computer monitor or projector

You can disconnect the external computer monitor or projector by unplugging the VGA monitor cable from your computer's port. Disconnecting the external display when the computer is in a power saving mode (Standby or Hibernate) may cause the computer to malfunction.

Using Speakers

Your computer comes with built-in stereo speakers. If you wish to enhance the sound quality of your computer, you can purchase and connect external speakers. If you want to purchase speakers, make sure the speakers are designed for computer use. You can shop Sony online at http://www.sonystyle.com/vaio or contact your local retailer.

Connecting speakers

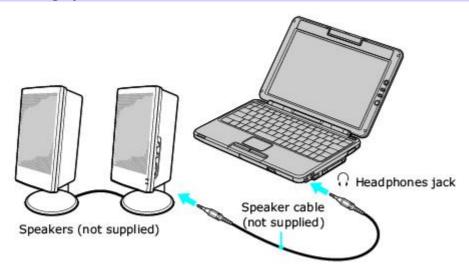
You can connect speakers to your computer to enhance the sound quality of your computer.

Do not place floppy disks on the speakers. The speakers' magnetic field may damage the data stored on the floppy disks.

To connect speakers to your computer

- 1. Turn down the volume of the speakers.
- 2. Plug the speaker cable into the Headphones jack Ω on the computer.
- B. Plug the other end of the speaker cable into the speaker.

Connecting Speakers



 $mm{\&}$ See the guide that accompanied your speakers for more information on its installation and use.

Disconnecting speakers

You can disconnect external speakers when the computer is on or off. Simply unplug the speaker cable from the Headphones jack Ω on the computer.

Adjusting the volume

To adjust the volume for playing CDs and DVDs, use the **Volume** icon on the Windows® taskbar. Adjusting the volume for playing CDs or DVDs does not adjust the volume for recording sound files.

You can only adjust the recording volume in the **Recording Control** window. See <u>Using a microphone to record sound</u> for instructions on how to open this window.

To adjust the volume of your speakers

- 1. Right-click the **Volume** icon on the Windows® taskbar, and select **Open Volume Control**. The **Volume Control** window appears.
- 2. Click and drag the Volume Control slider up to increase volume and down to decrease volume.
- 3. Click to cancel any **Mute** check boxes that are selected.

Sound device Function

volume Control	Adjust the sound level from the speakers or head	pnones.

Wave Adjust the wavfile sound or the system sound of Windows.

SW Synth Adjusts the internal or external synthesizer volume.

Microphone Adjust the internal or external microphone volume.

Telephony Adjust the modem or telephone volume.

PC Beep Adjust the beep sound when inserting or removing the PC Card and other devices.

Line¹ Adjusts the sensitivity of input volume.

1 On selected models only.

As a shortcut, you can press the **Fn+F4** keys and the Up Arrow or Right Arrow keys to change the volume setting. You can also press the **Fn+F3** keys to toggle the mute option on and off.

Enabling the audio feature

If you do not hear sound when playing a CD or DVD, you may need to enable the audio feature.

To enable the audio feature

- 1. Click **Start** on the Windows® taskbar, and click **Control Panel**.
- 2. Click **Performance and Maintenance**, and click **System**. The **System Properties** window appears.
- 3. Select the **Hardware** tab, and click **Device Manager**. The **Device Manager** window, which lists the hardware devices, appears.
- 4. Double-click the optical drive device, such as **DVD/CD-ROM drives**¹.
- 5. Double-click the listed drive name, and click the **Properties** tab.
- 6. Click the **Enable digital CD audio for this CD-ROM device** check box if it is not already selected.
- ${}^{\scriptscriptstyle \perp} \text{The read/write drive letter designation may vary, depending on your system's hardware configuration.}$

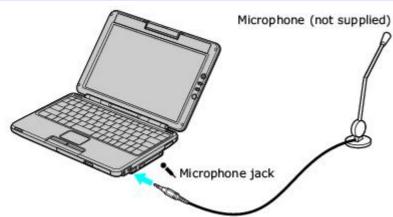
Using Microphones

You can connect an external microphone to your computer to enhance the sound input to your computer. Make sure your microphone is designed for computer use. If you wish to purchase a microphone, shop Sony online at http://www.sonystyle.com/vaio or contact your local retailer.

Connecting a microphone

Plug the microphone cable into the Microphone jack * on the computer.

Connecting a Microphone



¹A protruding dot located next to the Microphone jack distinguishes this jack from the Headphones jack.

Disconnecting a microphone

You can disconnect an external microphone when the computer is on or off. Simply unplug the microphone cable from the Microphone jack $^{\prime\prime}$ on the computer.

Using a microphone to record sound

You can record messages, memos, etc. by connecting a microphone to the Microphone jack on your computer.

To record from a microphone

- 1. Double-click the **Volume** icon on the Windows® taskbar. The **Volume Control** window appears.
- 2. From the **Options** menu, click **Properties**. The **Properties** dialog box appears.
- 3. Click to select the **Recording** option in the **Adjust volume for** box, and click **OK**. The **Recording Control** window appears.
- 4. Click the **Select** check box at the bottom of the **Microphone** column, if it is not already selected. Close the **Recording Control** window.
- 5. Click **Start**, and select **All Programs**, **Accessories**, **Entertainment**, and then **Sound Recorder**. The **Sound Sound Recorder** window appears.
- For help using Sound Recorder, click **Help** in the **Sound Recorder** window.

To adjust the volume for recording sound

You can only adjust the volume for recording in the **Recording Control** window.

- 1. Right-click the **Volume** icon on the taskbar, and select **Adjust Audio Properties**.
- 2. On the **Audio** tab, click **Volume** in the **Sound recording** box. The **Recording Control** window appears.
- 3. Click and drag the **Microphone** slider up to increase volume and down to decrease volume.

Memory Upgrades

Before you upgrade your computer's memory, read the safety information in <u>Precautions and Procedures.</u> For the type of module and amount of memory installed on your computer, see the <u>Welcome</u> page to view the VAIO® Computer Specifications.

Sony recommends that memory upgrades be performed by an authorized Sony Service Center. To find the nearest center or agent, go to: http://www.sony.com/pcsupport.

The procedures described below assume familiarity with the general terminology associated with personal computers and with the safety practices and regulatory compliance required for using and modifying electronic equipment. When installing a memory module in your computer, make sure you read the proper safety precautions below. Mistakes that occur when installing or removing a memory module may cause a malfunction.

- Turn off the computer. Disconnect the computer from its power source and from any telecommunications links, networks, or modems before you install or remove a memory module. Failure to do so may result in personal injury or equipment damage.
- Introducing any liquids or any foreign substances or objects into the memory slots, or other internal components of the computer, will result in damage to the computer.
- Electrostatic discharge (ESD) can damage disk drives, memory modules, and other components. Perform the procedures described below only at an ESD workstation. If such a station is not available, do not work in a carpeted area, and do not handle materials that produce or hold static electricity (cellophane wrappers, for example). Ground yourself by momentarily touching an unpainted metal object that is grounded, such as a pipe, radiator, or faucet.
- Do not open the memory module package until you are ready to install the module. The package protects the module from ESD.
- Use the special protective package to store a memory module and prevent ESD.
- Only use memory modules that are compatible with your computer. For the type of module and amount of memory installed on your computer, see the Welcome page to view the VAIO® Computer Specifications. If you wish to purchase a memory module, shop Sony online at http://www.sonystyle.com/vaio or contact your local retailer.

Removing and Installing Memory Modules

Make sure you read the safety information in <u>Precautions and Procedures</u> before you remove or install a memory module. When installing a memory module, do not open the module package until you are ready to install it. The package protects the module from Electrostatic discharge (ESD).

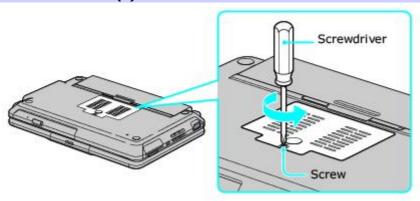
For memory upgrades and information about which memory modules to use, refer to your VAIO® Computer Specifications available on the Welcome page.

To remove a memory module

- Turn off the computer and all attached devices.
- Disconnect the power cord, all cables, and remove the battery if it is installed.
- 3. Wait for the computer to cool down.
 - $ot\!$ The interior of the computer becomes extremely hot during operation. Wait at least one hour for the computer to cool down before you remove the screws.
- Turn the computer over and use an appropriate screwdriver to loosen and remove the screw(s) on the memory bay.

To avoid damaging the computer, do not remove or loosen any other screws.

Removing the Bottom Screw(s)



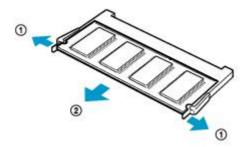
5. Touch a grounded metal object to discharge static electricity.



Avoid touching any part of the motherboard or other components inside the computer.

Remove the memory module by pulling out the tabs (see arrows No. 1), and pulling out the module in the direction of arrow No. 2. See To install a memory module for more information.

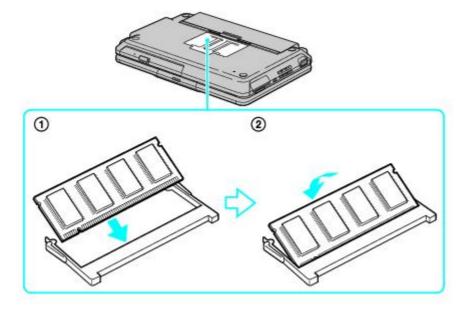
Removing a Memory Module



To install a memory module

Remove the new memory module from its packaging, and install the memory module by sliding it into the open slot at a 45-degree angle. See To remove a memory module.

Installing a New Memory Module



- 2. Push the module down until it snaps into place.
- 3. When the module is correctly seated, close the memory bay.
- 4. Replace the fastening screw(s) on the memory bay.
- 5. Make sure the system recognizes the new memory module. See <u>Confirming Added Memory Capacity</u> for more information.

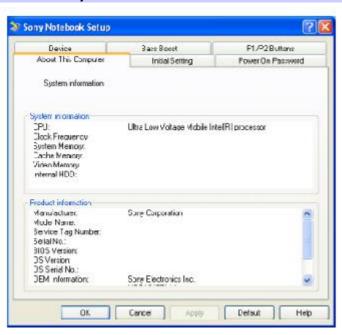
Confirming Added Memory Capacity

After you have installed a new memory module, make sure the operating system recognizes it.

To check your system's memory

- 1. Turn on the computer.
- 2. Click Start on the Windows® taskbar, point to All Programs, and then point to Sony Notebook Setup.
- 3. Select **Sony Notebook Setup** from the submenu. The **Sony Notebook Setup** dialog box appears.
- 4. On the **About This Computer** tab, make sure the **System Memory** displayed in the **System Information** box matches the amount of memory installed.
- 1 The displayed memory may be less than the installed memory due to the amount used by the display adapter.

Sony Notebook Setup



Computer

What do I do if my computer won't start?

- Make sure the computer is securely plugged into a power source and turned on. Make sure the power indicator shows the power is on.
- Make sure the battery is inserted properly and charged.
- Make sure the floppy disk drive (if applicable) is empty.
- If the computer is plugged into a power strip or uninterruptible power supply (UPS), make sure the power strip or UPS is turned on and working.
- If you are using an external display, make sure it is plugged into a power source and turned on. Make sure the brightness and contrast controls are adjusted correctly. See the guide that came with your display for details.
- Disconnect the AC adapter and remove the battery. Wait one minute. Reattach the AC adapter and reinsert the battery. Turn on the power.
- Condensation may cause the computer to malfunction. If this occurs, do not use the computer for at least one hour.
 - If the computer still does not turn on, follow these steps:
 - 1. Unplug the power cord and remove the battery.
 - 2. Use a thin, straight object (such as a paper clip) to press the reset button.
 - See "Locating Controls and Ports" in the "Setting Up" chapter of your printed *Quick Start* to locate the reset button.
 - 3. Reinsert the power cord and the battery.
 - 4. Turn on the computer.

Computer

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- Disconnect the AC adapter and remove the battery. Wait one minute. Reattach the AC adapter and reinsert the battery. Turn on the power.
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 - 2. Use a thin, straight object (such as a paper clip) to press the reset button.
 - See "Locating Controls and Ports" in the "Setting Up" chapter of your printed *Quick Start* to locate the reset button.
 - 3. Reinsert the power cord and the battery.
 - 4. Turn on the computer.

What do I do if a BIOS error appears when my computer starts?

If the message "Press <F1> to resume, <F2> to setup" appears at the bottom of the screen, follow these steps:

- 1. Press the **F2 key**. The **BIOS Setup** menu appears.
- 2. Set the date (month/day/year). Press **Enter**.
- 3. Press the **Down Arrow** key to select **System Time**, and then set the time (hour: minute: second). Press **Enter**.
- 4. Press the **Right Arrow** key to select the **Exit** tab, and then press the **Down Arrow** key to select **Get Default Values**. The message **Load default values for all SETUP items** appears.
- 5. Press **Enter**. The **Setup Confirmation** window appears.
- 6. Select **Yes**, and press **Enter**.
- 7. Select Exit (Save Changes), and press Enter. The Setup Confirmation window appears again.
- 8. Select **Yes**, and press **Enter**. The computer restarts.

If this occurs on a regular basis, contact Sony Computing Support (http://www.sony.com/pcsupport).

What do I do if the message "Operating system not found" appears when my computer starts, and why won't Windows start?

- Make sure the computer does not have a "non-bootable" floppy disk in the floppy disk drive (if applicable).
- If a non-bootable floppy disk is in the drive:
 - 1. Remove the floppy disk.
 - 2. Restart the computer and confirm that the Microsoft® Windows® operating system starts properly.
- If, after you removed a floppy disk, Windows still does not start, follow these steps to initialize the BIOS:
 - 1. Turn off the computer.
 - 2. Remove any peripheral devices connected to the computer.
 - 3. Restart the computer.
 - 4. Press the **F2 key** when the Sony logo appears. The **BIOS Setup** window appears.
 - 5. Press the **Right Arrow** key to select the **Exit** menu.
 - 6. Press the **Down Arrow** key to select **Get Default Values**. The message **Load default values for all SETUP items** appears.
 - 7. Press **Enter**. The **Setup Confirmation** window appears.
 - 8. Select **Yes**, and press **Enter**.
 - 9. Select Exit (Save Changes), and press Enter. The Setup Confirmation window appears again.
 - 10. Select **Yes**, and press **Enter**. The computer restarts.

Why does my computer stop responding? Why can't I turn off my computer?

It is best to turn off your computer using the Turn Off Computer option on the Microsoft® Windows® Start menu, located on the taskbar. Using other methods, including those listed below, may result in loss of unsaved data.

- Click Start on the Windows® taskbar, select Turn Off Computer, and then click Turn Off.
- If your computer does not turn off, press the **Ctrl+Alt+Delete** keys simultaneously. When the **Windows Task**Manager dialog box appears, click **Turn Off** from the **Shut Down** menu.
- If your computer still does not turn off, press and hold the power button or slide and hold the power switch until the computer turns off.
- If your computer stops responding while playing a CD or DVD, press the **Ctrl+Alt+Delete** keys simultaneously. You can turn off the computer from the **Windows Task Manager**.

Pressing the **Ctrl+Alt+Delete** keys simultaneously or turning off the computer with the power button or switch may cause loss of data.

Remove the AC adapter and battery.

Why won't my computer enter Standby or Hibernate mode?

Your computer may become unstable if the operating mode is changed before the computer completely enters Standby or Hibernate.

To restore the computer to normal operating stability:

- 1. Close all open programs.
- 2. Restart the computer. Follow these steps:
 - 1. Press the **Windows** key 🌯 .
 - 2. Press **U**.
 - 3. Press **R** to select restart.
- 3. If the computer does not restart, follow these steps:
 - 1. Press the Ctrl+Alt+Delete keys simultaneously. The Windows Task Manager window appears.
 - 2. Press and release **Alt** to highlight the menu bar, and press the **Right Arrow** key to select Shut Down.
 - 3. Press **Enter**.
 - 4. Press **R** to select restart.
- 4. If this procedure does not work, press and hold the power button or slide and hold the power switch until the computer turns off.

Why is the sound of my computer's fan so loud?

The computer's fan may be running at a high speed to cool the CPU. By lowering the CPU speed, you also lower the speed and noise level of the computer's fan. If your computer comes with the PowerPanel utility, use it to lower the CPU speed. If your computer does not come with the PowerPanel utility, use the power schemes to lower the CPU speed.

To lower the CPU fan speed using the PowerPanel utility:

- 1. On the Windows® taskbar, right-click the **CPU** icon **□**.
- 2. Select Edit/Create Profiles. The AC Power Profile Editor window appears.
- B. Double-click **System** to open the **System** submenu if it is not already open.
- 4. Double-click CPU Fan Control, and select Level 1 Quiet.
- 5. Restart your computer.
- See PowerPanel Help for more information.

To lower the CPU speed using the power schemes:

- 1. Click **Start** on the Windows® taskbar, and click **Control Panel**.
- 2. Click **Performance and Maintenance**, and click **Power Options**. The **Power Options Properties** window appears.
- 3. Select **Portable/Laptop** in the **Power schemes** box.
- Click Apply.
- 5. Click OK.
- A vailable on selected models.

Why does the System Properties dialog box display a slower CPU speed than the maximum?

This is normal. Because your computer's CPU utilizes a type of CPU speed controlling technology for power conservation purposes, System Properties may display the CPU's current speed instead of the maximum speed.

Why don't my changes appear on the computer screen (LCD)?

You may need to refresh the computer screen. Press and hold the $m{Windows}$ key $m{z}$, and press $m{D}$ twice.

How do I know when the battery is charged?

To determine the remaining battery charge, see <u>Locating battery information</u>.

How do I know when the battery is charged?

To determine the remaining battery charge, see <u>Locating battery information</u>.

When is the computer using AC power?

When the computer is directly connected to the AC adapter, it uses AC power, even if a battery is installed.

When should I recharge the battery?

- When the battery level falls below 10 percent.
- When both the battery and power indicators blink.
- When you have not used the battery for a long time.

When should I replace the battery?

If the battery power is still low after charging it, the battery may be reaching the end of its life and should be replaced.

Should I be concerned that the installed battery is warm?

No, it is normal for the battery to be warm when it is powering the computer.

Can my computer enter Hibernate mode while using battery power?

Your computer can enter Hibernate mode while using battery power, but some software programs and peripheral devices prevent the system from entering Hibernate mode. If you are using a program that prevents the system from entering Hibernate mode, save your data frequently to avoid losing data. See <u>To activate Hibernate mode</u> for information on how you can manually activate Hibernate mode.

Why doesn't my computer enter Hibernate mode?

You may first need to enable Hibernate mode. Follow these steps:

- 1. Click **Start** on the Windows® taskbar, and click **Control Panel**.
- 2. Click **Performance and Maintenance**, and click **Power Options**. The **Power Options Properties** window appears.
- 3. Select the **Hibernate** tab.
- 4. Click to check the box next to **Enable hibernation**.

Why doesn't my modem work?

- Make sure the telephone cable is securely plugged into the Modem jack on the computer and the wall jack.
- Make sure the telephone cable is working. Plug the cable into an ordinary telephone and listen for a dial tone.
- Make sure the telephone number the program is dialing is correct.
- Make sure the software you are using is compatible with the computer's modem. (All preinstalled Sony programs are compatible.)

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- Make sure the telephone cable is working. Plug the cable into an ordinary telephone and listen for a dial tone.
- Make sure the telephone number the program is dialing is correct.
- Make sure the software you are using is compatible with the computer's modem. (All preinstalled Sony programs are compatible.)

Why is my modem connection slow?

Your computer is equipped with a V.90 compatible modem. Many factors may influence modem connection speed, including telephone line noise or compatibility with telephone equipment, such as fax machines or other modems. If you think your modem is not connecting properly to other PC-based modems, fax machines, or your Internet Service Provider (ISP), follow these steps:

- Ask your telephone company to verify your telephone line is free of any line noise.
- If your problem is fax-related, make sure there are no problems with the fax machine you are calling and that it is compatible with fax modems.
- If you are having a problem connecting with your ISP, make sure the ISP is not experiencing technical problems.
- If you have a second telephone line, try connecting the modem to that line.

Why can't my computer connect to a wireless LAN access point?

- Connection availability is affected by distance and obstructions. You may need to move your computer away from obstructions or closer to any access point you may be using.
- Make sure the Wireless LAN switch on the computer on.
- Make sure power to the access point is on.
- Make sure the access point is displayed in the Available networks window.
- Make sure the encryption key is correct.

Why can't my computer connect to a wireless LAN access point?

- Connection availability is affected by distance and obstructions. You may need to move your computer away from obstructions or closer to any access point you may be using.
- Make sure the Wireless LAN switch on the computer on.
- Make sure power to the access point is on.
- Make sure the access point is displayed in the Available networks window.
- Make sure the encryption key is correct.

Why can't I access the Internet?

- Check the access point settings. Refer to the instructions supplied with the access point.
- Make sure your computer and the access point are connected to one another.
- Move your computer away from obstructions or closer to any access point you may be using.
- Make sure your computer is properly configured for Internet access.

Why is the data transfer speed slow?

- The wireless LAN data transfer speed is affected by distance and obstructions between devices and access points. Other factors include device configurations, radio conditions, and software compatibility. To maximize the data transfer speed, move your computer away from obstructions or closer to any access point you may be using.
- If you are using a wireless LAN access point, the device may be temporarily overloaded depending on how many other devices are communicating via the access point.
- If your access point interferes with other access points, change the access point channel. See your access point instructions for more information.

Why is the communication speed interrupted or slowed down when MPEG2 data is transferred?

The typical effective data transfer speed via an access point is 4-5 Mbps when adhering to the IEEE 802.11b standard or both the IEEE 802.11b and IEEE 802.11g standards (selected models only). High-rate stream transfers with MPEG2 data may lower this rate.

How do I avoid data transfer interruptions?

- When your computer is connected to an access point, data transfer interruptions may occur when using large files or if the computer is in close proximity to microwaves and cordless telephones.
- Move the computer closer to the access point.
- Make sure the access point connection is intact. For more information, see <u>Checking your network connection</u> <u>status.</u>
- Change the access point channel. See your access point instructions for more information.

Can I connect to an IEEE 802.11a device?

Computers with built-in wireless LAN support the IEEE 802.11b standard only. Devices connecting to a wireless LAN using the IEEE 802.11a standard cannot connect to devices using the IEEE 802.11b standard.

What are channels?

Wireless LAN communication occurs on divided frequency bands known as channels. Third-party wireless LAN access point channels may be preset to different channels from Sony devices.

If you are using a wireless LAN access point, refer to connectivity information contained in your access point instructions.

When I change the encryption key, the network connection stops. What do I do?

Two computers with built-in wireless LAN may loose a peer-to-peer network connection if the encryption key is changed. You can either change the encryption key back to the original profile or restart both computers.

How do I maintain CDs and DVDs?

- Avoid touching the surface of the disc with your fingers. Fingerprints and dust on the surface of the disc may cause reading errors.
- Try using canned compressed air to clean dusty discs.
- Do not clean the disc with solvents (such as benzine, thinner, alcohol, commercially available cleaners, or anti-static spray), which may damage the disc. To clean the disc, follow these steps:
 - 1. Hold the edge of the disc, and use a soft cloth to wipe the surface from the center out.
 - 2. If the disc is badly soiled, moisten a soft cloth with water, wring it out well, and use it to wipe the surface of the disc from the center out.
 - 3. Wipe off any remaining moisture with a dry, soft cloth.
- Do not drop or bend the disc.

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 - 3. Wipe off any remaining moisture with a dry, soft cloth.
- Do not drop or bend the disc.

Why does my computer freeze when I try to read a disc?

- The disc your computer is trying to read may be dirty or damaged. Follow these steps:
 - $1. \quad \text{Restart the computer by clicking \textbf{Start}, $\textbf{Turn Off Computer}$, and $\textbf{Restart}$.}$
 - $2. \hspace{0.1in} \hspace{0.1in$
 - 3. Examine the disc for dirt or damage. If the disc is dirty, see How do I maintain CDs and DVDs? for instructions on how to clean it.

What do I do if the drive tray won't open?

- Make sure the computer is on.
- Press the Eject button on the optical drive.
- If the Eject button does not work, click **Start** on the Windows® taskbar, and click **My Computer**. Right click the optical drive icon, and select **Eject** from the shortcut menu.
- If none of the above options work, insert a thin, straight object (such as a paper clip) in the manual eject hole near the Eject button.

What do I do if the optical drive isn't playing my CD or DVD properly?

- Make sure the disc was inserted into the drive with the label facing up.
- Make sure the necessary program(s) is installed according to the manufacturer's instructions.
- If the CD or DVD is dirty or damaged, the computer will stop responding. Follow these steps:
 - 1. Restart the computer by pressing the **Ctrl+Alt+Delete** keys, and selecting **Restart** from the **Shut Down** menu of the **Windows Task Manger** dialog box.
 - 2. Remove the CD or DVD from the optical drive.
 - 3. Check the disc for dirt or damage. If you need to clean the disc, see How do I maintain CDs and DVDs? for instructions.
 - If you are playing a CD or DVD and cannot hear sound, follow these steps:
 - 1. Double-click the **Volume** icon on the **Taskbar Notification** area, and click to cancel the **Volume Control**Mute All and Wave Mute check boxes.
 - 2. Check the volume setting in the audio mixer, or use the Volume buttons located on the front (upper panel) of your computer to increase and decrease the volume. See the "Setting Up" chapter of your printed VAIO® Computer Quick Start for the location of these buttons.
 - 3. If you are using external speakers, check the volume settings on the speakers and the connections between the speakers and the computer.
 - 4. Make sure the CD audio feature is enabled and the correct driver software is installed. Follow these steps:
 - 1. Click Start on the Windows® taskbar, click Control Panel, Performance and Maintenance, and System. The System Properties window appears.
 - 2. Select the **Hardware** tab, and click **Device Manager** in the **Device Manager** box. A window with a listing of the computer's hardware devices appears.
 - If an "X" or an exclamation point appear on the listed device, you may need to enable the device or reinstall the drivers.
 - 3. Double-click the optical drive device to open the submenu.
 - 4. Double-click the listed drive, and select the **Properties** tab.
 - 5. Click to select the **Enable digital CD audio for this CD-ROM device** check box, if it is not selected.
 - You can confirm the driver software by selecting the **Driver** tab, and clicking **Driver Details**.
 - 6. Click **OK** to close the window.
- Make sure an adhesive label was not attached to the CD or DVD. Adhesive labels can come off while the disc is in the optical drive and damage the drive or cause it to malfunction.
- If a region code warning appears, the disc may be incompatible with the optical drive. Check the DVD package to make sure the region code is compatible with the optical drive.
- If you notice condensation on the computer, do not use the computer for at least one hour. Condensation can cause the computer to malfunction.

Why did the computer screen (LCD) go blank?

- Your computer screen may go blank if the computer has lost power or has entered a power saving mode (Standby or Hibernate). If the computer is in LCD (Video) Standby mode, press any key to activate the computer screen. See <u>Using power saving modes</u> for more information.
- Make sure the computer is plugged into a power source and is on. The power indicator on the computer will be on if the computer is on.
- If your computer is using battery power, make sure the battery is inserted properly and is charged. See <u>Using the Battery</u> for more information.
- If the display mode is set to external display, use the Fn+F7 key combination. See <u>Selecting a display</u> for more information.

Why can't I print a document?

- Make sure the printer is on, and the printer cable is securely connected to the ports on your printer and computer.
- Make sure the printer is compatible with the Microsoft® Windows® operating system installed on your computer.
- You may need to install the printer driver software before you use the printer. See the guide that accompanied the printer for more information.
- If the printer is not functioning after the computer resumes from a power saving mode (Standby or Hibernate), then
 restart the computer.
- If the bidirectional communication functions are provided with your printer, disabling the functions on your computer may enable printing. Follow these steps:
 - 1. Click **Start**, and then **Control Panel**.
 - 2. Click **Printers and Other Hardware**.
 - 3. Click **Printers and Faxes**.
 - 4. Right-click an unused printer and select **Properties**.
 - 5. Click the **Ports** tab.
 - 6. Click to cancel the **Enable bidirectional support** check box.
 - 7. Click **OK**.

This change to the settings disables the bidirectional communication functions of your printer, such as data transfer, status monitoring, and remote panel.

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- Make sure the printer is on, and the printer cable is securely connected to the ports on your printer and computer.
- Make sure the printer is compatible with the Microsoft® Windows® operating system installed on your computer.
- You may need to install the printer driver software before you use the printer. See the guide that accompanied the printer for more information.
- If the printer is not functioning after the computer resumes from a power saving mode (Standby or Hibernate), then
 restart the computer.
- If the bidirectional communication functions are provided with your printer, disabling the functions on your computer may enable printing. Follow these steps:
 - 1. Click **Start**, and then **Control Panel**.
 - 2. Click **Printers and Other Hardware**.
 - 3. Click **Printers and Faxes**.
 - 4. Right-click an unused printer and select **Properties**.
 - 5. Click the **Ports** tab.
 - 6. Click to cancel the **Enable bidirectional support** check box.
 - 7. Click **OK**.

This change to the settings disables the bidirectional communication functions of your printer, such as data transfer, status monitoring, and remote panel.

Microphone

Why doesn't my microphone work?

If you are using an external microphone, make sure the microphone is turned on and is properly plugged into the Microphone jack on the computer.

Microphone

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If you are using an external microphone, make sure the microphone is turned on and is properly plugged into the Microphone jack on the computer.

What do I do if the computer doesn't recognize the mouse?

- Make sure the mouse is securely plugged into the port.
- Restart the computer with the mouse connected to the computer.

What do I do if the computer doesn't recognize the mouse?

- Make sure the mouse is securely plugged into the port.
- Restart the computer with the mouse connected to the computer.

What do I do if the pointer doesn't move when I use the mouse?

- Make sure another mouse is not installed.
- If you are playing a disc, press the Ctrl+Alt+Delete keys simultaneously to stop playback and restart the computer.
- If you still cannot use the pointer, restart the computer. You can restart the computer three different ways:
- Press the **Windows** key [■] , and press **U**. When the **Turn Off Computer** window appears, press **R**.
- Press the **Ctrl+Alt+Delete** keys simultaneously. When the **Windows Task Manager** window appears, press the **Alt** key to highlight the menu bar, and press the **Right Arrow** key to select **Shut Down**. Press **Enter**, and then press **R**.
- Press and hold the power button. When the computer turns off, press the power button again to restart the computer.

Why won't my speakers work?

- Make sure the speakers are properly connected and the volume is turned up loud enough to hear sound.
- Your speakers may not be designed for computer use.
- If the speakers have a mute button, set the button to off.
- If the speakers have a volume control, make sure the volume is turned up loud enough to hear sound.
- If you have connected an audio cable to the Headphones jack, disconnect the cable and use the speaker cable that was supplied with the speakers.
- If your computer is using battery power, make sure the battery is inserted properly and is charged.
- If the speakers require external power, make sure the speakers are connected to a power source. See the guide that accompanied the speakers for more information.

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- Your speakers may not be designed for computer use.
- If the speakers have a mute button, set the button to off.
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- If your computer is using battery power, make sure the battery is inserted properly and is charged.
- If the speakers require external power, make sure the speakers are connected to a power source. See the guide that accompanied the speakers for more information.

Why can't I hear sound from my speakers?

- If the computer is using battery power, make sure the battery is properly inserted and is charged.
- If you are using a program that has its own volume control, make sure the volume control is properly set. See that program's help guide for more information.
- Your speakers may be set to mute, the volume setting may be too low, or the audio option may be disabled. See <u>Adjusting the volume</u> and <u>Enabling the audio feature</u> for more information.

Why don't the Fn+F3 or the Fn+F4 key combinations work?

The Fn+F3 keys toggle the built-in speakers on and off. The Fn+F4 keys adjust the built-in speaker volume. The computer may not recognize the Fn+F3 and Fn+F4 keys if the correct speakers are not selected. Follow these steps:

- 1. Right-click the **Volume** icon on the taskbar, and select **Adjust Audio Properties**.
- 2. On the **Volume** tab, click **Advanced** in the **Speaker settings** box. The **Advanced Audio Properties** window appears.
- 3. On the **Speakers** tab, select the correct speaker setup from the **Speaker setup** drop-down menu.

What do I do if the touch pad does not work?

- Try restarting your computer. Follow these steps:
 - 1. Press the **Windows** key 🌯 .
 - 2. Press **U**. The **Turn off computer** window opens.
 - 3. Press **R** to restart the computer.
 - If the computer does not restart, follow these steps:
 - 1. Press the Ctrl+Alt+Delete keys simultaneously. The Windows Task Manager window appears.
 - 2. Press and release **Alt** to highlight the menu bar, and press the **Right Arrow** key to select **Shut Down**.
 - 3. Press Enter.
 - 4. Press **R** to restart the computer.
 - If you still cannot restart your computer, press and hold the power button to turn off the computer.
- If the pointer does not move while playing a disc, press **Ctrl+Alt+Delete** simultaneously to stop playback and restart the computer.
- If you are still experiencing problems, make sure another mouse is not installed.
- You may have disabled the touch pad without connecting a mouse to the computer. See To enable the touch pad.

If your computer is interpreting a single-click as a double-click, you may want to change the button assignments. Follow these steps:

- 1. Click **Start** on the Windows® taskbar and click **Control Panel** and **Printers and Other Hardware** and **Mouse**. The **Mouse Properties** dialog box appears.
- 2. On the **Buttons** tab, select your preferences in the **Button Selection** box.
- 3. Click **Apply** to install your settings.
- 4. Click **OK** to close the window.

What do I do if the touch pad does not work?

- Try restarting your computer. Follow these steps:
 - Press the Windows key **.
 - 2. Press **U**. The **Turn off computer** window opens.
 - 3. Press **R** to restart the computer.
 - If the computer does not restart, follow these steps:
 - 1. Press the Ctrl+Alt+Delete keys simultaneously. The Windows Task Manager window appears.
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 - 3. Press **Enter**.
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- 2. On the **Buttons** tab, select your preferences in the **Button Selection** box.
- 3. Click **Apply** to install your settings.
- 4. Click **OK** to close the window.

Why isn't my i.LINK drive playing a CD or DVD properly?

- The i.LINK optical drive will not play a CD or DVD if the disc was inserted with the label facing down. Eject the CD or DVD from the drive, and make sure the label is facing up.
- The disc may require a particular program that is not already installed on your computer. Install that program according to the manufacturer's instructions.
- The DVD may not be compatible with the optical drive and a region code warning appears when you try to play it.

 Make sure the region code listed on the DVD package is compatible with the drive.

Why isn't my i.LINK drive playing a CD or DVD properly?

- The i.LINK optical drive will not play a CD or DVD if the disc was inserted with the label facing down. Eject the CD or DVD from the drive, and make sure the label is facing up.
- The disc may require a particular program that is not already installed on your computer. Install that program according to the manufacturer's instructions.
- The DVD may not be compatible with the optical drive and a region code warning appears when you try to play it.

 Make sure the region code listed on the DVD package is compatible with the drive.

Why won't my i.LINK drive play my computer programs?

If multiple i.LINK® devices are connected to the computer, the software supplied with your computer will not recognize them. Follow these steps:

- 1. Turn off your computer and all connected devices.
- 2. Disconnect the devices that are not in use. See <u>Connecting an i.LINK Optical Drive</u> for instructions on reconnecting the i.LINK device.

i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connection. The i.LINK connection may vary, depending on the software applications, operating system, and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other. Refer to the documentation that came with your compatible i.LINK device for information on operating conditions and proper connection. Before connecting compatible i.LINK PC peripherals to your system, such as CD-RW or hard disk drive, confirm their operating system compatibility and required operating conditions.

Why can't I open my image files?

You may need to reformat your Memory Stick® media.

Formatting Memory Stick media erases all data, including music data, previously saved to it. Before you reformat Memory Stick media, back up important data and confirm that the media does not contain files you want to keep.

- 1. Copy the data from the Memory Stick media onto your computer's hard disk to save data or images.
- 2. Format the Memory Stick media using Memory Stick Formatter software preinstalled on your computer. For instructions about formatting a Memory Stick media, see <u>Formatting Memory Stick media</u>.

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Why can't I save music files onto my Memory Stick media?

- Only MagicGate Memory Stick media can be used with copyright protected data, such as music.
- Copyright protected music cannot be checked out to any Memory Stick media other than MG Memory Stick media.
- Using recorded music requires permission of the copyright holders.
- Sony is not responsible for music files that cannot be recorded from a CD or downloaded from other sources.

Can I copy images from a digital video camera using Memory Stick media?
Yes, and you can view video clips that you have recorded with Memory Stick media-compatible video camera recorders.

How do I prevent damage to the Memory Stick media?

- Do not use the media in locations that are subject to static electricity or electrical noise.
- Do not touch the media connector with your finger or metallic objects.
- Do not attach labels other than the supplied label to a media.
- Do not bend, drop, or apply strong shock to the media.
- Do not disassemble or modify the media.
- Do not allow the media to get wet.

How do I extend the life of the Memory Stick media?

- Use the supplied storage case. See the instructions that came with your media for more information on its use.
 - Do not use or store the media in a location that is subject to:
 - Extremely high temperatures, such as in a car parked in the sun
 - Direct sunlight
 - High humidity or places with corrosive substances



Why doesn't the Safely Remove Hardware icon appear on the taskbar when the drive is connected?

The computer does not recognize the floppy disk drive. First, make sure the USB cable is properly connected to the USB port. If you need to secure the connection, wait a few moments for the computer to recognize the drive. If the icon still does not appear, follow these steps:

- Close all programs that were accessing the floppy disk drive.
- Wait for the LED indicator on the floppy disk drive to turn off.
- Push the Eject button, and remove the disk.
- Reconnect the floppy disk drive by inserting the USB connector (with the USB icon \frac{\psi}{2} facing upward) into the USB port Ψ .
- Restart the computer by clicking **Start** on the Windows® taskbar, **Turn Off Computer**, and then **Restart**.



Why doesn't the Safely Remove Hardware icon appear on the taskbar when the drive is connected?

The computer does not recognize the floppy disk drive. First, make sure the USB cable is properly connected to the USB port. If you need to secure the connection, wait a few moments for the computer to recognize the drive. If the icon still does not appear, follow these steps:

- Close all programs that were accessing the floppy disk drive.
- Wait for the LED indicator on the floppy disk drive to turn off.
- Push the Eject button, and remove the disk.
- Reconnect the floppy disk drive by inserting the USB connector (with the USB icon \frac{\psi}{2} facing upward) into the USB port Ψ .
- Restart the computer by clicking **Start** on the Windows® taskbar, **Turn Off Computer**, and then **Restart**.

Why is the drive unable to write data to a floppy disk?

Make sure the floppy disk is properly inserted in the drive. See <u>Inserting and removing floppy disks</u> for instructions on how to insert the disk properly.

If the disk is inserted properly and you are still unable to write data to it, the disk may be full or write-protected. You can either use a floppy disk that is not write-protected or disable the write-protect feature.

Why doesn't my PC Card work?

- Make sure the PC Card is inserted properly. See <u>Inserting PC Cards</u> for more information.
- Make sure the PC Card is compatible with the Microsoft® Windows® operating system installed on your computer.
- Use the Sony Notebook Setup utility to disable devices you are not currently using. See <u>To open Sony Notebook</u>
 <u>Setup</u> for more information.
- See the instructions that accompanied your PC Card. You may need to install driver software if you are not using a Sony PC Card.

Why doesn't my PC Card work?

- Make sure the PC Card is inserted properly. See <u>Inserting PC Cards</u> for more information.
- Make sure the PC Card is compatible with the Microsoft® Windows® operating system installed on your computer.
- Use the Sony Notebook Setup utility to disable devices you are not currently using. See <u>To open Sony Notebook</u>
 <u>Setup</u> for more information.
- See the instructions that accompanied your PC Card. You may need to install driver software if you are not using a Sony PC Card.

Why doesn't my computer recognize attached devices?

For some PC Cards, if you alternate between normal power operation and the Standby or Hibernate modes while the card is inserted into the PC Card slot, the computer may not recognize the PC Card or the connected device. Restart your computer.

Why can't I insert my PC Card?

- Make sure you are inserting the card correctly. See <u>Inserting PC Cards</u> for more information.
- You may not be able to use some PC Cards or some functions of the PC Card with this computer. Check the guide that accompanied your PC Card for more information on its use.

Why does an exclamation mark (!) appear on the Device Manager tab in the System Properties dialog box?

- The exclamation mark indicates there is a problem with the specified device. Make sure all cable and power connections are secure.
- You may not be using the most recent driver software provided by the PC Card manufacturer. Make sure the necessary drivers are installed. You may need to remove the driver software, and reinstall it.

Why can't I use the DV recorder?

You may not be able to use the DV recorder, and the message **DV equipment seems to be disconnected or turned off** may appear because the i.LINK[®] cable is not securely plugged into the ports on the computer or camera. Unplug the connectors, and plug them in again. See <u>Connecting an i.LINK digital video recorder</u> for more information.

i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connection. The i.LINK connection may vary, depending on the software applications, operating system, and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other. Refer to the documentation that came with your compatible i.LINK device for information on operating conditions and proper connection. Before connecting compatible i.LINK PC peripherals to your system, such as CD-RW or hard disk drive, confirm their operating system compatibility and required operating conditions.

Why can't I use the DV recorder?

You may not be able to use the DV recorder, and the message **DV equipment seems to be disconnected or turned off** may appear because the i.LINK[®] cable is not securely plugged into the ports on the computer or camera. Unplug the connectors, and plug them in again. See <u>Connecting an i.LINK digital video recorder</u> for more information.

i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connection. The i.LINK connection may vary, depending on the software applications, operating system, and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other. Refer to the documentation that came with your compatible i.LINK device for information on operating conditions and proper connection. Before connecting compatible i.LINK PC peripherals to your system, such as CD-RW or hard disk drive, confirm their operating system compatibility and required operating conditions.

Support Options

The section contains information on where to go for answers to questions about your VAIO $^{\circ}$ computer and the preinstalled software.

Sony Support Information

1

Refer to the following sources for answers in the sequence listed below.

VAIO® Computer Documentation

The on-screen VAIO® Computer User Guide and the printed VAIO® Computer Quick Start provide information on how to maximize your computer capabilities and solve common problems.

2 Program Guides and Help Files

The preinstalled programs on your computer may come with individual help guides. These guides are stored on the hard disk as on-screen Help files. You can find the Help files from the Help menu under the specific program.

3 Operating System Online Support

Your computer comes preinstalled with a Microsoft® Windows® operating system. For operating system support, you can visit Microsoft® customer support at: http://support.microsoft® customer support at: http://support.microsoft®.

4 Sony Computing Support

This service provides instant access to information on commonly encountered problems. Type a description of the problem and the Knowledge Database searches for the corresponding solutions online. You can visit Sony Computing Support at: http://www.sony.com/pcsupport.

Program Support Information

Depending on the configuration you purchased, your computer may not include all of these software programs listed below.

Adobe Photoshop Elements

Adobe Systems Inc.

Using state-of-the-art image editing tools, you can unleash your artistic ability and create digital images for print, e-mail, and posting to the Web. The versatile image capturing options enable you to start working with digital and traditional photos immediately. Explore extensive creative possibilities for your personal images with Adobe Photoshop Elements software. Upgrade possible to Adobe Photoshop software.

Support:

web site http://www.adobe.com

telephone 800-685-3652

hours M - F, 6 AM - 5 PM PST

Adobe Premiere LE

Adobe Systems Inc.

Adobe Premiere LE software offers interface and editing tools for producing movies for video, multimedia, and the Web. View source clips and edited footage simultaneously on-screen. You can create your own personal video clips that are up to three hours in length, with complete audio-video synchronization. Upgrade possible to full version of Adobe® Premiere® software.

For support information, see Adobe Photoshop Elements (Adobe Systems Inc.).

Adobe® Premiere®

Adobe Systems Inc.

Professional digital video editing software that enables you to create professional video productions. Take advantage of the sophisticated new Adobe Title Designer, MPEG-2 export, DVD authoring, and powerful audio tools.

For support information, see Adobe® Photoshop® Elements (Adobe Systems Inc.).

Adobe® Reader®

Adobe Systems Inc.

Adobe Reader software enables you to view, navigate, and print electronic documents in Adobe's Portable Document Format (PDF), an open file format intended to preserve the fidelity of documents created on many major computer platforms.

For support information, see Adobe® Photoshop® Elements (Adobe Systems Inc.).

America Online® (Broadband or Dial-Up)

America Online, Inc.

America Online is a popular Internet online service. Stay in touch with family and friends with easy-to-use e-mail. Manage your personal finances, get the latest news and sports scores, and chat with thousands of others who share your interests.

Support:

web site http://www.aol.com

AT&T WorldNet® Service

AT&T Corp.

AT&T WorldNet Service offers fast, reliable Internet access. Customer benefits include Web-based e-mail, video e-mail, multiple e-mail accounts, free Web pages, online and live agent technical support, instant messaging, and parental controls.

Support:

web site http://help.att.net

Boingo Wireless

Boingo Wireless, Inc.

Boingo Wireless service offers Wi-Fi access in hundreds of hot spot locations, including airports, hotels, coffee shops, and other public spaces. Experience the Internet up to 100 times faster than dial-up, and enjoy being totally mobile.

Support:

web site http://www.boingo.com/servicecenter.html

telephone 800-880-4117

e-mail support@boingo.com

hours M - F, 4 AM - 10 PM PST Sat-Sun, 6 AM - 3 PM PST

Click to DVD

Sony Electronics Inc.

At the touch of a button, Click to DVD software allows you to automatically burn DVDs from a digital video device. Create DVDs by capturing video content straight from a digital video (DV) device or by importing video from stored files — and you can also edit the video if desired. Create DVD photo albums and slide shows with picture files or by importing pictures from a digital still camera. What's more, you can easily give a professional look to your DVDs by adding chapter menus, backgrounds, and menu screens. You're only a few clicks away from your own DVDs!

Support:

web site http://www.sony.com/pcsupport

telephone 888-4-SONY-PC (888-476-6972)

hours 7 days a week, 24 hours a day

CLIÉ Converter

Sony Electronics Inc.

CLIÉ Converter software is a plug-in application that converts Giga Pocket® Video Capsules into Movie Player format for playback on your Sony® CLIÉ handheld. After converting your Video Capsules, you can use CLIÉ Converter software to transfer them to Memory Stick® media or to save them to your hard disk drive for transfer to your CLIÉ handheld during your next HotSync® operation.

For support information, see Click to DVD (Sony Electronics).

Corel® WordPerfect®

Corel Corp.

WordPerfect software is a powerful word-processing tool that helps you produce newsletters, articles, reports, proposals, books, and other documents. This software enables you to add graphics, tables, and charts to documents. You can publish to paper, electronic media, and the World Wide Web. WordPerfect 10 software allows you to format, structure, and edit documents at any time and gives you complete control over the design. WordPerfect 10 software includes Quattro Pro® and Corel Presentations . It also includes CorelCENTRAL software, which has Day Planner, Calendar, Address Book, Mail, Card File, Memos, Alarms and Admin.

Support:

web site http://www.corel.com

telephone 613-274-0500

CyberLink PowerDVD®

CyberLink Corp.

CyberLink PowerDVD® software offers high-quality playback of DVD movies on your computer. PowerDVD software includes all the controls you expect from a home DVD player, plus a range of additional features. For example, you can bookmark scenes to come back to them later. The customizable controls, advanced navigation bar, and dynamic player skins combine to deliver a premium viewing experience.

Support:

web site http://www.gocyberlink.com/english/cs/support/index-tech.jsp

Drag'n Drop CD

DigiOn, Inc., and Easy Systems Japan Ltd.

Drag'n Drop CD software is designed to make CD creation simple. You can create your own audio or data CDs that can be read in most audio CD players or personal computers. With Drag'n Drop CD software, you can also back up CDs.

Support:

web site http://www.ddcd.jp/dd3e/sony/cd

Drag'n Drop CD+DVD

DigiOn, Inc., and Easy Systems Japan Ltd.

Drag'n Drop CD+DVD software is designed to make CD and DVD creation simple. You can create you own audio or data CDs and data DVDs. These discs can be read in most audio CD players or personal computers. With Drag'n Drop CD+DVD software, you can also back up CDs.

Support:

web site http://www.ddcd.jp/dd3e/sony/cd

DVgate

Sony Electronics Inc.

Connect a compatible digital video camera to your computer's i.LINK® port and capture video clips and still images. You can edit clips from your video, add new clips, and combine clips into new movie segments. You can also save your images in a variety of popular file formats.

For support information, see Click to DVD (Sony Electronics).

DVgate Plus

Sony Electronics Inc.

Connect a compatible digital video camera to your computer's i.LINK® port and capture video clips and still images. Edit clips from your video, add new clips, and combine clips into new movie segments. Save your movies back to your digital video camera or in a variety of popular file formats.

For support information, see Click to DVD (Sony Electronics).

EarthLink TotalAccess® (DSL or Dial-Up)

EarthLink, Inc.

EarthLink, one of the world's largest Internet Service Providers, offers dial-up and broadband access to the Internet. Member benefits include e-mail, newsgroups, an EarthLink Personal Start PageSM, free storage space for your personal Web site, a member magazine, and 24-hour technical support.

Support:

web site http://support.earthlink.net

EverQuest® Sony Online Entertainment Inc.

This introductory edition of the EverQuest game, a constantly evolving fantasy world, takes users to new heights of online role-playing gaming. Enter an enormous virtual environment—an entire world with its own diverse species, economic systems, alliances, and politics. Make yourself a noble human knight, a vicious dark elf thief, a greedy dwarven merchant, or whatever your heart desires as you meet new friends from around the world and face epic challenges. Rated TEEN by the ESRB: Content may be suitable for persons ages 13 and older. May contain violent content, mild or strong language, and/or suggestive themes.

Support:

web site http://www.everquest.com

telephone 858-537-0898

e-mail eqtech@soe.sony.com

hours M - F, 9 AM - 6 PM PST

Giga Pocket® Personal Video Recorder

Sony Electronics Inc.

Giga Pocket® Personal Video Recorder is a unique set of hardware and software components that provide you with excellent TV viewing, recording, and playback experiences. You can watch and record your favorite TV programs from your computer, create custom playlists, and play your Video Capsules on other compatible computers. Giga Pocket® Personal Video Recorder enables your computer, TV, VCR, and other video player devices to work in harmony.

For support information, see Click to DVD (Sony Electronics).

ImageStation®

Sony Electronics, Inc.

With ImageStation® online service, you can store, organize, and share your photos and video clips online. ImageStation online service membership is free (except for transactions) and includes unlimited storage of digital photos, storage for 15 minutes of video clips, tools to personalize the design and arrangement of your pictures in albums, and access to stories and tips about image handling in ImageStation Magazine.

For support information, see Click to DVD (Sony Electronics).

Microsoft Age of Empires II

Microsoft Corp.

The Age of Empires game is the sequel to the award-winning, best-selling realtime strategy game Age of Empires. The Age of Empires II game spans a thousand years, from the fall of Rome through the Middle Ages in which players lead one of 13 civilizations into greatness. The game keeps the epic scope of the original product's game play while evolving the combat and economic features. Rated TEEN by the ESRB: Content may be suitable for persons ages 13 and older. May contain violent content, mild or strong language, and/or suggestive themes.

Support: See Microsoft® Works

Microsoft® Encarta® Online

Microsoft Corp.

The Encarta Online encyclopedia includes more than 47,000 encyclopedia articles, many with multimedia features such as video and audio clips. You'll also find links to trusted Web sites with even more information. An interactive world atlas lets you zoom in on a particular region or country. Content may be suitable for persons ages 6 and older. May contain minimal violence and some comic mischief or crude language.

Support: See Microsoft® Works

Microsoft® Family Game Pack

Microsoft Corp.

Play classic games like chess and checkers with Bicycle Board Games (rated E). Own and run your own zoo in Zoo Tycoon (rated E). Play golf on the finest courses in Links (rated E). Rated E for EVERYONE by the ESRB: Content may be suitable for persons ages 6 and older. May contain minimal violence and some comic mischief or crude language.

Support: See Microsoft® Works

Microsoft Corp.

Internet Explorer offers dramatic performance, reliability, and usability improvements making it the fastest, easiest and most cost-effective Web browser for people to use, manage and support. Whether you use the Web to read e-mail, news or sports reports, shop online, listen to music or play videos, or share your images and photos with friends family or work colleagues, IE 6 makes it easy, exciting and fun.

Support: See Microsoft® Works

Microsoft® MSN®

Microsoft Corp.

MSN Internet service combines fast, reliable service with innovative Microsoft software to make the Web more useful for you and your family. The new MSN 8 Internet service includes smart features such as automatic e-mail virus protection services, an intelligent junk mail filter, powerful parental controls, and easy switching tools.

Support: See Microsoft® Works

Microsoft® Money Standard

Microsoft Corp.

Microsoft Money Standard provides a quick and easy way to organize and manage your personal finances. New features include auto-balancing, a bills estimator, spending comparison reports, and investment reminders. Save time organizing and managing your cash flow and balancing your checkbook. Create and track a budget, pay your bills, organize your finances, and view a complete picture of your financial health all in one place.

Support: See Microsoft® Works

Microsoft® Windows® Movie Maker 2

Microsoft Corp.

Windows Movie Maker 2 makes home movies amazingly fun. With Movie Maker 2 you can create, edit and share your home movies right on your PC. Build your movie with a few simple drag-and-drops. Delete bad shots and include only the best scenes. Add special effects, music and narration. Then share your movie via the Web, e-mail, on your PC, CD, or even DVD. You can also save your edited movie back to the DV tape in your camera to play on a TV or even on the camera itself.

Support: See Microsoft® Works

Microsoft® Office XP Professional

Microsoft Corp.

Microsoft Office XP Professional software redefines the relationship between people and software by providing a smarter, simpler way of working. New Office XP Professional software features include context-sensitive smart tags, enhanced formatting options, and more, that enable you to continually integrate additional services into Office and access information anytime. The Office XP Professional suite includes Word, Excel, Outlook®, PowerPoint®, and Access software.

For support information, see Click to DVD (Sony Electronics).

Microsoft® Office XP Small Business Edition

Microsoft Corp.

Microsoft Office XP Small Business Edition helps you get work done more quickly by providing real-time, context-sensitive options for important actions, from formatting to error correction. Task panes consolidate important tasks into a single integrated view, enabling you to conduct searches, launch and format documents, and view the contents of your Clipboard from one location. The Office XP Small Business Edition suite includes Word, Excel, Outlook®, and Publisher software.

For support information, see Click to DVD (Sony Electronics).

Microsoft® Simulation Game Pack

Microsoft Corp.

Fly your own aircraft in Flight Simulator (rated E). Drive like a maniac in Midtown Madness 2 (rated E). Live in a world of mythology with Age of Mythology (rated T). Rated E for EVERYONE: Content may be suitable for persons ages 6 and older. May contain minimal violence and some comic mischief or crude language. Rated T for TEEN: Content may be suitable for persons ages 13 and older. May contain violent content, mild or strong language, and/or suggestive themes.

Support: See Microsoft® Works

Microsoft® Windows Media® Player

Microsoft Corp.

Using one of the premiere video and music playback software programs, you can better enjoy listening and watching angents 7

different kinds of media. Other great features include, instant-on playback, Mini-player mode, Intelligent Streaming technology, 5.1-channel surround sound audio codec, and built-in Smart Jukebox features.

Support: See Microsoft® Works

Microsoft® Works

Microsoft Corp.

Works lets you quickly and easily create high-quality, fun documents. Works provides the core tools you need to create documents, manage lists and schedules, create reports and budgets and organize information from many sources. Works includes Word Processor, Works Database, Works Spreadsheet, Works Portfolio, and Works Calendar.

Support:

web site http://www.support.microsoft.com

MoodLogic

MoodLogic, Inc.

MoodLogic is the world's largest descriptive database of song information. The information is provided from music lovers like you. MoodLogic allows you to browse the songs by artist and genre, narrow your selections by tempo or year, save your favorite playlist and transfer it to a portable player.

Support:

web site http://www.moodlogic.com/support

e-mail help@moodlogic.com

Network Smart Capture

Sony Electronics Inc.

Network Smart Capture captures images and video from any Sony® Digital Camcorder that supports a standard i.LINK® connection. Send your video or still images through e-mail or upload them to the ImageStation® service. You can use the Web camera function to automatically upload your captured images.

For support information, see Click to DVD (Sony Electronics).

Norton Internet Security

Symantec Corporation

Symantec's Norton Internet Security software provides essential protection from viruses, hackers, and privacy threats. This easy-to-use, integrated suite includes full versions of Norton AntiVirus® and Norton Personal Firewall software to defend your PC against the most common Internet dangers. Norton Internet Security also includes Norton Spam Alert, which helps you detect and filter unwanted e-mail. Norton Parental Control keeps your children safe by letting you block objectionable Web sites and set up separate Internet access privileges for each member of your household. Automatic downloads keep Norton Internet Security software updated against new security threats. This is a trial version of the Norton Internet Security software.

Support:

web site http://www.symantec.com/techsupp

PC-cillin®

Trend Micro, Inc.

PC-cillin antivirus software provides complete, easy-to-use, Internet-era virus protection at your computer's entry points (including beaming, synchronization, and Internet access) to defend against potential threats hidden inside files, e-mail, or on the Web. (Subscription required after initial evaluation period.)

Support:

web site http://www.trendmicro.com/en/support

telephone 800-864-6027

e-mail pc-cillin@support.trendmicro.com

hours M - F, 5 AM - 5 PM (PST)

PictureGear Studio

Sony Electronics Inc.

PictureGear Studio still image management software displays still images from your hard drive or a Sony digital still camera. The still images appear in a convenient light-table format so that you can easily view the contents of an entire folder, create your own photo albums and make prints.

For support information, see Click to DVD (Sony Electronics).

Quicken® New User Edition

Intuit Inc.

Quicken software is a fast, easy way to organize your finances. Quicken software works just like your checkbook, so it's easy to learn and use. You can even pay your bills online. Quicken software manages all of your finances, bank accounts, credit cards, investments, and loans. (Users of earlier versions of Quicken software must upgrade for a fee.) Upgrade possible to Quicken® Deluxe, and other versions.

Support:

web site http://www.intuit.com/support

QuickTime®

Apple Computer, Inc.

The versatile QuickTime software plays many different kinds of media files, including video, audio, and virtual reality (VR) movies. You can play QuickTime files (referred to as "QuickTime movies") using QuickTime Player or any other application, such as a Web browser or word processor, that supports QuickTime software.

Support:

web site http://www.info.apple.com

telephone 800-275-2273

RealOne Player

RealNetworks, Inc.

RealOne Player is an all-in-one digital media player that lets you find everything and play anything. RealOne Player fuses a streaming media player, jukebox, browser and new content discovery services all in one application. Play CDs, MP3s and internet radio stations from anywhere in the world. View video clips and movies with the same player. Download music directly to your Sony MiniDisc Walkman® player or your Sony Memory Stick Walkman® player.

Support:

web site(s) http://service.real.com/rjoptions.html

telephone 206-674-2680

RecordNow

Easy Systems LTD, Japan

RecordNow is the ideal CD and DVD disc-mastering software. The RecordNow wizard makes it easy for the novice user to start recording right away.

Support:

web site http://www.easv.co.jp/jrn45/sonv

SonicStage Page 199

Sony Electronics Inc.

The SonicStage jukebox application gives you all the tools you need to manage music on your computer. SonicStage software sports high-quality digital audio storage, a music visualizer, a sleek player skin design, audio CD burning capability (on computer models that include a CD recording device), and a parametric equalizer for fine-tuning audio playback.

For support information, see Click to DVD (Sony Electronics).

SonicStage Mastering Studio

Sony Electronics Inc.

Use SonicStage Mastering Studio software to record songs from analog records or cassette tapes into your computer, and output them to CD-R or CD-RW discs, or audio files in WAV format.

For support information, see Click to DVD (Sony Electronics).

Sony on Yahoo!

Yahoo! Inc.

Personalize your own Web portal with Sony on Yahoo! Get a free Web mail account, customized news and local weather reports, comics, instant messaging, and more.

Support:

web site http://help.yahoo.com

Screenblast® ACID®

Sony Pictures Digital Entertainment

Use the amazing Screenblast® ACID® software to produce, arrange, and edit your loop-based music. With ACID software, you can slice out long hours from the music-making equation and unlock the doors of your creativity by picking, painting, and playing your songs.

Support:

web site http://www.sonicfoundry.com/support/default.asp

Screenblast® ACID® Deluxe

Sonic Foundry, Inc. and Sony Pictures Digital Entertainment

Screenblast® ACID® Deluxe software lets you produce, arrange, and edit your loop-based music. With Screenblast ACID Deluxe software you get unlimited tracks, track-at-once burning, higher bit rates, and express effects like reverb.

Support:

web site http://www.sonicfoundry.com/support/default.asp

Screenblast® Sound Forge®

Sonic Foundry, Inc. and Sony Pictures Digital Entertainment

Sony Screenblast® Sound Forge® software enables you to record, edit, and process mono or stereo audio files for your multimedia or Internet projects. Whether you want to use a number of professional effects, convert video into streaming media, or synchronize audio to video—this software has everything you need to create rich, immersive multimedia and Internet content.

Support:

web site http://www.sonicfoundry.com

Sony® VAIO® Product Registration

Sony Electronics Inc.

VAIO Product Registration is an integrated registration application for both Sony Electronics and Microsoft Corporation. By registering with Sony, you enable Sony to notify you of software and hardware issues that may affect your user experience. Microsoft directs the data to Sony Electronics. Sony uses the registration data for warranty and product support purposes and the analysis of customer feedback on Sony computer features.

Sound Blaster® Audigy

Creative Labs, Inc.

Easily create, customize, and listen to MP3/WMA files, set up properties for audio devices, and record sound or music from various sources. Enjoy cinema-quality sound immediately and experience fully enhanced digital or analog sound.

Support

web site http://www.americas.creative.com/support/custsup.asp

Station.com

Sony Online Entertainment Inc.

Sony Online's award-winning Web site offers gamers the best in casual online games. With popular TV titles such as Jeopardy! Wheel of Fortune Online, card games, and action titles like Cosmic Rift, the station rewards its players with a host of contests and cash giveaways as well as localization so players can play in French, German and Japanese.

Support: Sony Electronics, see VAIO Support Agent

TurboTax® for the Web

Intuit, Inc.

Quickly and easily prepares and files tax returns without downloading or installing any software. From the easy-to-use interview to features such as Instant Data Entry, also found in the TurboTax desktop products, TurboTax for the Web offers easy, fast and customized tax preparation.

Support:

web site http://www.intuit.com/support

telephone 900-555-4932; 800-644-3193₁

hours M - F, 5 AM - 5 PM PST

 $\scriptstyle 1$ Support from 900-555-4932 is fee-based. Support from 800-644-3193 is automated and free of charge.

VAIO Action Setup

Sony Electronics Inc.

VAIO Action Setup manages the settings for your computer's shortcut keys.

For support information, see Click to DVD (Sony Electronics).

VAIO Edit Components

Sony Electronics Inc.

VAIO Edit Components is a software plug-in for Adobe® Premiere® software that provides maximum compatibility and video quality for capturing video from your Sony digital camcorder.

For support information, see Click to DVD (Sony Electronics).

VAIO Hints and Tips

Sony Electronics Inc.

VAIO Hints and Tips provides helpful information about using your computer's preinstalled hardware and software. You can find suggestions on improving system performance, answers to frequently asked questions, and creative ways to tap into your computer's multimedia capabilities. As you become familiar with your computer's features, your creative VAIO® computer experience expands.

For support information, see Click to DVD (Sony Electronics).

VAIO Media

Sony Electronics Inc.

VAIO Media software brings multimedia to your network, enabling you to share music, video, and still image files between your VAIO® computers. You can set up one or more computers as "media servers," which store your multimedia files Page 201

make them available to other VAIO computers on your wired or wireless network.

For support information, see Click to DVD (Sony Electronics).

VAIO Music Services

Sony Electronics Inc.

Download music from the web, create your own albums, or have CDs sent straight to your house with VAIO Music Services. The ultimate place on the Web for music lovers to find out information about their favorite artist and get all of the latest music news.

For support information, see Click to DVD (Sony Electronics).

VAIO Support Agent

Sony Electronics Inc.

VAIO Support Agent provides immediate, interactive online support with information about your preinstalled software and answers to frequently asked questions.

For support information, see Click to DVD (Sony Electronics).

WinDVD® for VAIO®

InterVideo, Inc.

WinDVD software serves as a simple-to-use DVD player that offers all the features you would expect to find in a standard consumer DVD player, including advanced display and navigation features such as zoom, pan, bookmark, and time search.

Support:

web site http://www.intervideo.com/jsp/Support.jsp

telephone 510-651-0888