

User Guide

Personal Computer VGN-FJ100 Series



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Before Use

Congratulations on your purchase of this Sony VAIO[®] computer, and welcome to the on-screen User Guide. Sony has combined leading-edge technology in audio, video, computing, and communications to provide state-of-the-art personal computing.

Documentation

Your documentation includes printed information and user guides to read on your VAIO computer.

Printed Documentation

- **Welcome mat** Contains an overview of connections, setting up information, etc.
- **Galaxy Safety information** Contains safety guidelines and owner information.



Non-printed Documentation

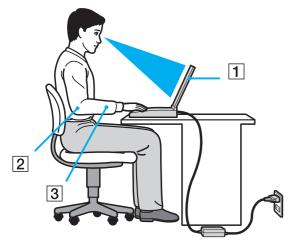
- □ User Guide (this manual) Contains features of your computer. It also includes information about the software programs included with your computer, as well as information on solving common problems.
- Specifications The online Specifications describe the hardware and software configuration of your VAIO computer.
 To view the online Specifications:
 - **1** Connect to the Internet.
 - 2 Go to the Sony online support Web site at <u>http://www.sony.com/pcsupport</u> for customers in USA, at <u>http://www.sony.ca/support</u> for customers in Canada, or at <u>http://www.sony.com/lapcsupport</u> for customers in Latin American countries or areas.
- □ VAIO Recovery Options Guide Provides information about restoring individual software programs, software drivers, and drive partition(s) or your entire hard disk drive to the original factory installed settings.

To access this online VAIO Recovery Options Guide:

- 1 Click Start, point to All Programs, and click VAIO Support Central.
- 2 Click VAIO Documentation.
- 3 Click Recovery Guide.

Ergonomic Considerations

You will be using your computer as a portable device in a variety of environments. Whenever possible, you should attempt to take account of the following ergonomic considerations to both stationary and portable environments:



- Position of your computer Place the computer directly in front of you (1). Keep your forearms horizontal (2), with your wrists in a neutral, comfortable position (3) while using the keyboard, touch pad, or external mouse. Let your upper arms hang naturally at your sides. Have 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. 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 backwards.



- □ Viewing angle of the computer's display Use the display's tilting feature to find the best position. You can reduce eye strain and muscle fatigue by adjusting the tilt of the display to the proper position. Adjust the brightness setting of the display as well.
- Lighting Choose a location where windows and lights do not create glare and reflection on the display. Use indirect lighting to avoid bright spots on the display. You can also purchase accessories for your display that help reduce glare. Proper lighting adds to your comfort and work effectiveness.
- Positioning 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.



Getting Started

This section describes how to get started with using your VAIO computer.

- □ Locating Controls and Ports (page 11)
- □ About the Indicator Lights (page 18)
- □ Connecting a Power Source (page 19)
- □ Using the Battery Pack (page 20)
- □ Shutting Down Your Computer Safely (page 25)

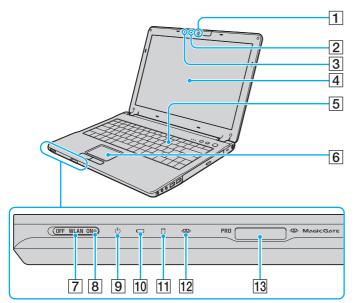


Locating Controls and Ports

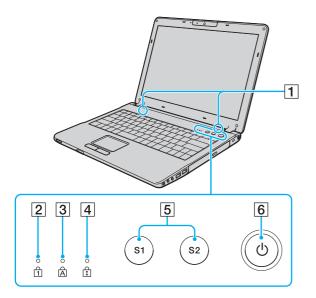
Take a moment to identify the controls and ports shown on the following pages.

The following illustrations may appear different from your model, depending on the country or area of your residency.

Front



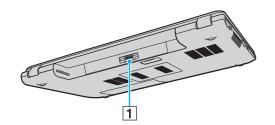
- 1 Built-in MOTION EYE camera (page 31)
- 2 Built-in MOTION EYE camera indicator (page 18)
- **3** Internal microphone (monaural)
- 4 LCD screen (page 101)
- 5 Keyboard (page 27)
- 6 Touch pad (page 29)
- **7** WLAN (Wireless LAN) switch (page 47)
- 8 WLAN (Wireless LAN) indicator (page 18)
- 9 Power indicator (page 18)
- 10 Battery indicator (page 18)
- 11 Hard disk drive indicator (page 18)
- 12 Memory Stick media indicator (page 18)
- 13 Memory Stick media slot^{*} (page 42)
- Your computer supports Memory Stick Duo media and Memory Stick Pro high speed and high capacity capabilities.



- 1 Speakers
- 2 Num lock indicator (page 18)
- 3 Caps lock indicator (page 18)
- 4 Scroll lock indicator (page 18)
- 5 S1/S2 buttons (page 30)
- 6 Power button

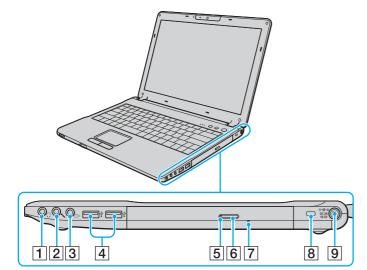


Back



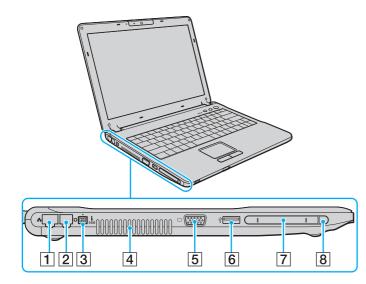
1 Battery connector (page 20)

Right



- 1 Headphones jack (page 61)
- 2 Microphone jack (page 71)
- 3 AV Out jack (page 65)
- 4 Hi-Speed USB (USB 2.0) ports^{*} (page 72)
- 5 Optical disc drive indicator (page 18)
- 6 Drive eject button (page 32)
- 7 Manual eject hole (page 134)
- 8 Security slot
- 9 DC In port (page 19)
- * Supports high-/full-/low- speeds.

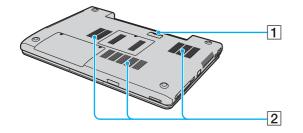
Left



- 1 Network (Ethernet) port ^{*1} (page 79)
- 2 Modem port (page 46)
- 3 i.LINK[®] (IEEE1394) S400 port (page 77)
- 4 Air vent
- 5 Monitor (VGA) port ^{*1}(page 63)
- 6 Hi-Speed USB (USB 2.0) port^{*2} (page 72)
- 7 PC Card slot (page 39)
- 8 PC Card eject button (page 41)
- ^{*1} Disabled when the computer is attached to the optional port replicator.
- *2 Supports high-/full-/low- speeds. Obstructed and unavailable when the computer is attached to the optional port replicator.



Bottom



Port replicator connector (page 57)
 Air vents

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About the Indicator Lights

Your computer is equipped with the following indicator lights.

Indicator	Functions
Power 🖰	Illuminates 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 🗂	Illuminates when the computer is using battery power, blinks when the battery is running out of power, and double-blinks when the battery is charging.
Memory Stick Pro/Duo 😩	Illuminates 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.
Optical disc drive	Illuminates when data is read from or written to the optical disc. When the indicator is off, the optical disc is not being used.
Built-in MOTION EYE camera	Illuminates while the built-in MOTION EYE camera is in use.
Hard disk	Illuminates 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 ①	Press the Num Lk 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 the Caps Lock key to type letters in uppercase. Letters appear in lowercase if you press the Shift key 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 the Scr Lk key to change how you scroll the display. Normal scrolling resumes when the Scr Lk indicator is off. The Scr Lk key functions differently depending on the program you are using and does not work with all programs.
WIRELESS LAN	Illuminates when the wireless LAN function is running.

Connecting a Power Source

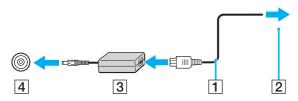
You can use either an AC adapter or a rechargeable battery pack as a power source for your computer.

Using the AC Adapter

 \swarrow Use the computer only with the supplied AC adapter.

To use the AC adapter

- 1 Plug one end of the power cord (1) into the AC adapter (3).
- 2 Plug the other end of the power cord into an AC outlet (2).
- 3 Plug the cable attached to the AC adapter (3) into the DC In port (4) on the computer or on the (optional) port replicator.



The shape of the DC In plug varies depending on the AC adapter.

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To disconnect the computer completely from AC power, unplug the AC adapter.

Make sure that the AC outlet is easily accessible.

If you do not use the computer for a long period of time, put the computer into Hibernate mode. See **Using Hibernate Mode (page 89)**. This power saving mode saves you the time of shutting down in the normal way.

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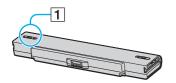
Using the Battery Pack

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

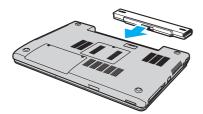
Installing the Battery Pack

To install the battery pack

- 1 Turn off the computer and close the LCD screen lid.
- 2 Slide the lock switch (1) to the **UNLOCK** position.



3 Slide the battery into the battery compartment until it clicks into place.





4 Slide the lock switch (1) to the **LOCK** position to secure the battery on the computer.

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When the computer is directly connected to AC power and has a battery pack installed, it uses power from the AC outlet.

! This computer is designed to operate only with genuine Sony batteries.



Charging the Battery Pack

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

To charge the battery pack

- **1** Install the battery pack.
- 2 Connect the AC adapter to the computer.

The computer automatically charges the battery (the battery indicator light flashes in a double blink pattern as the battery charges). When the battery is about 85% charged, the battery indicator turns off.

Battery indicator light status	Meaning
On	The computer is using battery power.
Blinks	The battery is running out of power.
Double blinks	The battery is charging.
Off	The computer is using AC power.



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When the battery is running out of power, both the battery and power indicator lights blink.

Keep the battery pack in the computer while it is directly connected to AC power. The battery pack continues to charge while you are using the computer.

If the battery level falls below 10%, you should either attach the AC adapter to recharge the battery or shut down the computer and install a fully charged battery.

The battery pack supplied with the computer is a lithium ion battery and can be recharged any time. Charging a partially discharged battery does not affect battery life.

The battery indicator light is on while you use the battery pack as a power source. When the battery life is nearly depleted, both the battery and power indicator lights start flashing.

For some software applications and some peripheral devices, the computer may not enter Hibernate mode even when battery life is low. To avoid loss of data when using battery power, you should save your data frequently and manually activate a power management mode, such as Standby or Hibernate. If the battery wears out when the computer enters Standby mode, you will lose any unsaved data. Going back to the previous work state is impossible. To avoid loss of data, you should save your data frequently.

When the computer is directly connected to AC power and has a battery pack installed, it uses power from the AC outlet.

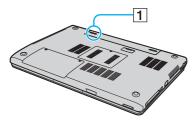


Removing the Battery Pack

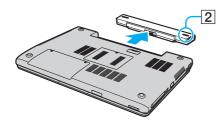
You may lose data if you remove the battery pack while the computer is on and not connected to the AC adapter or if you remove the battery while the computer is in Standby mode.

To remove the battery pack

- 1 Turn off the computer and close the LCD screen lid.
- 2 Slide the lock switch (1) to the UNLOCK position.



3 Slide and hold the release latch (2) and slide the battery away from the computer.



Shutting Down Your Computer Safely

To avoid losing unsaved data, be sure to shut down your computer properly, as described below.

To shut down your computer

- 1 Turn off any peripherals connected to the computer.
- 2 Click Start and then Turn Off Computer. The Turn off computer window appears.
- 3 Click Turn Off.
- 4 Respond to any prompts warning you to save documents or to consider other users and wait for the computer to turn off automatically.

The power indicator light turns off.



Using Your VAIO Computer

This section describes how to get the most out of using your computer.

- □ Using the Keyboard (page 27)
- □ Using the Touch Pad (page 29)
- □ Using Special-function Buttons (page 30)
- □ Using the Built-in MOTION EYE Camera (page 31)
- □ Using the Optical Disc Drive (page 32)
- □ Using PC Cards (page 39)
- □ Using the Memory Stick Media (page 42)
- □ Using the Internet (page 46)
- □ Using Wireless LAN (WLAN) (page 47)



Using the Keyboard

Your keyboard is very similar to a desktop computer keyboard, but has additional keys that perform model-specific tasks.

For more information on the standard keys, see **Help and Support Center** and click on the **Customizing your computer** link.

Combinations and Functions with the Fn Key

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Some functions are not available until Windows is launched.

Combinations/Feature	Functions
Fn + ☆ (F2) : muting	Turns on and off the built-in speakers and the headphones.
Fn + ∠ (F3/F4): volume	Adjusts the built-in speaker and headphone volume. To increase volume, press $Fn+F4$ and then \uparrow or \rightarrow , or keep pressing $Fn+F4$. To decrease volume, press $Fn+F3$ and then \downarrow or \leftarrow , or keep pressing $Fn+F3$.
Fn + ☆ (F5/F6): brightness control	Adjusts the brightness of the LCD. To increase lightness intensity, press Fn+F6 and then ↑ or → , or keep pressing Fn+F6 . To decrease lightness intensity, press Fn+F5 and then ↓ or ← , or keep pressing Fn+F5 .
Fn + \Box / \ominus (F7): switch to the external display	Toggles between the LCD, external device (e.g. monitor) and both LCD and external device.

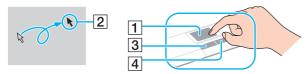


Fn + ⊕ (F10): zoom	Changes the screen resolution to magnify/restore the screen view. The magnified view is not as clear as the standard view, as it is implemented by applying a lower resolution to the LCD screen with a higher resolution. This key combination is disabled during video playback. Make sure to quit such software before pressing the key combination. This key combination may not work with graphic images as it magnifies the screen view by changing the resolution. The location and size of software windows may change when the screen view is magnified or the standard view is restored because pressing this key combination changes the resolution. When the LCD screen view is magnified, switching the view to the external display disables the function and restores the standard view.
Fn + Z (F12): Hibernate	Provides for the lowest level of power consumption. When you execute this command, the states of the system and the peripheral devices are written to the hard disk and the system power is turned off. To return the system to its original state, use the power switch to turn on the power. For details on power management, see Using the Power Saving Modes (page 86) .



Using the Touch Pad

The keyboard contains a cursor-pointing device, the touch pad (1). You can point to, select, drag, and scroll objects on the screen using the touch pad.



Action	Description
Point	Slide one finger on the touch pad to place the pointer (2) on an item or object.
Click	Press the left button (3) once.
Double-click	Press the left button twice.
Right-click	Press the right button (4) once. In many applications, this action displays a shortcut menu.
Drag	Slide one finger while pressing the left button.
Scroll	Move your finger along the right edge of the touch pad to scroll vertically. Move your finger along the bottom to scroll horizontally (the scroll function is available only with applications that support a touch pad scroll feature).



Using Special-function Buttons

Your computer is equipped with special buttons to help you use specific functions of the computer.

Special-function button	Functions
S1/S2 buttons $\binom{s_1}{s_2}$	By default, the S1 button turns the volume on and off and the S2 button toggles the display output between the LCD and external device. You can change these button assignments on the window for changing the S button assignments. To display this window, press and hold either button or launch and navigate through VAIO Central .



Using the Built-in MOTION EYE Camera

The built-in MOTION EYE camera adds video functionality to interactive communication software, for example **Windows Messenger** and **Windows MovieMaker**.

Turning on the computer activates the built-in MOTION EYE camera, so the computer is ready for a video conference using such software.

Note that launching or exiting your interactive communication software does not activate or deactivate the MOTION EYE camera, respectively. Make sure that the camera is activated before using the software.

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The built-in MOTION EYE camera cannot be shared by more than one software application. If another software application is using the camera, exit the application before using the built-in MOTION EYE camera.

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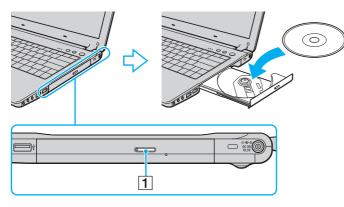
The viewer window may show some noises, for example horizontal lines, if you view a rapid-moving object. This is normal and does not indicate a malfunction.

Using the Optical Disc Drive

Your computer is equipped with an optical disc drive.

To insert a disc

- **1** Turn on the computer.
- 2 Press the drive eject button (1) to open the drive. The tray slides out.
- **3** Place a disc in the middle of the tray with the label side facing up and gently push until the disc clicks into place.



4 Close the tray by pushing it in gently.

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

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If you plan to use an external optical disc drive, connect the drive before you launch any preinstalled CD/DVD program.

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Reading and Writing 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 disc drive installed on your model. Use the table below to see which types of media your optical disc drive supports.

Optical disc drive	Plays	Records to
CD-ROM	CD, CD-R, and CD-RW	-
DVD-ROM	CD, CD-R, CD-RW, DVD and most DVD-R, DVD-RW, DVD+R, DVD+RW and DVD+R DL (Double Layer)*	-
CD-RW/DVD-ROM	CD, CD-R, CD-RW, DVD, most DVD-R, DVD-RW, DVD+R, DVD+R DL (Double Layer) [*] and DVD+RW	CD-R and CD-RW
DVD±RW	CD, CD-R, CD-RW, DVD, most DVD-R, DVD-RW, DVD+R, DVD+R DL (Double Layer) [*] and DVD+RW	CD-R, CD-RW, DVD-R, DVD-RW, DVD+R, DVD+R DL (Double Layer) [*] and DVD+RW

* On selected models only.

This product is designed to playback discs that conform to the Compact Disc Digital Audio standard specifications (CD Standard). A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. Please be aware that the audio side (non-DVD side) of a DualDisc may not play on this product because it does not conform to the CD Standard.

Due to the multiple formats of discs now available, when buying pre-recorded or blank discs for use with a VAIO computer, be sure to read the notices on the disc packaging carefully to check both playback and recording compatibility with your computer's optical disc drives. Sony does NOT guarantee the compatibility of VAIO CD drives with discs that not compliant with the official "CD" format standard (or "DVD" standard in relation to DVD drives). USING NON-COMPLIANT DISCS CAN CAUSE FATAL DAMAGE TO YOUR VAIO PC OR CREATE SOFTWARE CONFLICTS AND CAUSE SYSTEM HANGING. For inquiries about disc formats, contact the individual publisher of the pre-recorded disc or the manufacturer of the recordable disc.



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Supports writing to DVD-RW discs compliant with DVD-RW version 1.1/1.2.

Supports writing to DVD-R discs compliant with DVD-R for General version 2.0/2.1.

Supports 8cm disc reading, but does not support 8cm disc writing.

Writing to DVD+R DL (Double Layer) discs is available only on discs supporting DVD+R DL (Double Layer) recording.

Notes on writing data onto a disc

- □ To make the data on a disc readable on an optical disc drive, you need to close the session when you eject it. To complete this process, follow the instructions included with your software.
- Only use circular discs. Do not use discs in any other shape (star, heart, card, etc.), as this may damage the optical disc drive.
- Do not strike or shake the computer while writing data onto a disc.
- Deactivate the screen saver and exit anti-virus software before writing data onto a disc.
- Do not use memory-resident utility software while writing data to a disc. This may cause the computer to malfunction.
- □ When using your software application to burn discs, make sure you exit and close all other applications.
- □ Never touch the surface of the disc. Fingerprints and dust on the surface of a disc may cause writing errors.
- Do not switch power modes while using the pre-installed software and while using the CD burning software.
- □ Never put stickers on discs. This will affect the use of the disc irreparably.
- □ Connect and use the AC adapter to power the computer or make sure your battery is at least 50 percent charged.
- □ Some DVD players and computer's DVD drives may not be able to play DVDs created on applicable models using the **VAIO Zone** software.



Notes on playing DVDs

To achieve optimum performance when playing DVDs, you should follow these recommendations.

- □ You can play DVDs using the optical disc drive and the DVD playback software, such as VAIO Zone or WinDVD. See the help file on such software for details.
- Close all open applications before playing a DVD movie.
- Do not use memory-resident utility software to speed up disc access when playing a DVD. This may cause the computer to malfunction.
- Deactivate the screen saver and exit anti-virus software before playing a disc.
- □ 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.
- Region code indicators are labeled on the DVDs to indicate in which region and on what type of player you can play the disc. If the DVD is labeled "all," this means that you can play this DVD in most regions of the world. If the region code of your residence area is different from the label on the DVD disc or on the packaging, you cannot play the disc on this player.

You can change the DVD region code only a limited number of times. When you have exceeded this number, the drive's DVD region code is permanently assigned and you will not be able to change it again. Reconfiguring the computer does not reset this count.

If you change the DVD region code while the **WinDVD** software is running, restart the software or eject the disc and re-insert it to make the new setting effective.

□ If the computer has Wireless LAN and Wireless LAN is activated, playing DVDs may cause some interruptions in audio and video.



When you are playing a DVD (video or audio) and you want to remove a USB device, such as USB-compatible speakers, make sure you stop the DVD first. Removing a USB-compatible device during DVD (video or audio) playback may cause a malfunction.

Playing CDs

To play an audio CD

- 1 Insert the disc into the optical disc drive.
- 2 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 the **SonicStage** software.

If the Audio CD window appears, click to select an option.



Copying Files to CDs

To determine which type of CD your computer supports, see Reading and Writing CDs and DVDs (page 33).

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

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

- 1 Insert a blank CD-R or CD-RW disc into the optical disc drive. If the **CD Drive** window appears, click **Take no action**.
- 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 disc drive^{*} name.
 - Drag the file(s) or folder(s) onto the optical disc drive icon in the Files Stored on This Computer panel.
- 4 Close Windows Explorer.
- 5 Click Start and then My Computer.
- 6 Click the optical disc 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 in the CD Writing Wizard.
- * The read/write drive letter designation may vary, depending on your system's hardware configuration.



Playing DVDs

To play a DVD

- 1 Close all open programs.
- 2 Insert the DVD into the optical disc drive.
- 3 Click Start and point to All Programs.
- 4 Select a DVD software program to play the DVD.

For instructions on how to use a program, see the help guide included with the DVD software program.

Copying Files to DVDs

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

- 1 Connect the AC adapter to the computer.
- 2 Insert the disc into the optical disc drive.
- 3 Click Start and point to All Programs.
- 4 Select a DVD software program you want to use from the submenu.

For instructions on how to use a program, see the help guide included with the DVD software program.



Using PC Cards

PC Cards allow you to connect portable external devices to your computer.

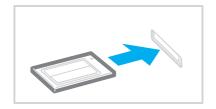
Inserting a PC Card

Some PC Cards or their functions may not be compatible with the computer.

You do not need to shut down the computer before inserting or removing a PC Card.

To insert a PC Card

- 1 Hold the PC Card with the front label facing up.
- 2 Gently push the PC Card into the PC Card slot. The PC Card is automatically detected by your system. The Safely Remove Hardware icon appears on the taskbar.





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Some devices may not function properly if you continually switch to Normal mode from Standby mode or Hibernate mode. For some PC Cards, if you alternate between Normal mode and Standby or Hibernate mode while the card is inserted, you may find that a device connected to your system is not recognized. Restart your system to correct the problem. Restarting will restore the original state of the computer.

While the card is inserted, the computer may not enter Hibernate power management mode. It may enter Standby mode. We recommend that you remove the card before the computer enters Hibernate mode.

Make sure you use the most recent software driver provided by the PC Card manufacturer.

If an "!" mark appears on the Device Manager tab in the System Properties window, remove the software driver and then reinstall it.

Do not force a PC Card into the slot. It may damage the connector pins. If you have difficulty inserting a PC Card, check that you are inserting the PC Card in the correct direction. See the manual supplied with your PC Card for more information on use.



Removing a PC Card

Follow the steps below to remove the PC Card while your computer is on. If it is not removed properly, your system may not work properly.

To remove a PC Card

Æ

To remove a PC Card when the computer is off, skip steps 1 to 7.

- 1 Double-click the **Safely Remove Hardware** icon on the taskbar. The **Safely Remove Hardware** window appears.
- 2 Select the hardware you want to unplug.
- 3 Click Stop. The Stop a Hardware Device window appears.
- 4 Confirm that the device can be safely removed from the system.
- 5 Click **OK**. A window appears, explaining that it is safe to remove the device.
- 6 Click OK.
- 7 Click Close.
- 8 Push the PC Card release button so that the release button pops out.
- 9 Push the PC Card release button a second time so that the PC Card pops out.
- 10 Gently take hold of the Card and pull it out of the slot.
- **11** If the PC Card release button is still out, push it back in.

Using the Memory Stick Media

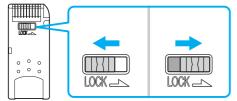
Your computer supports the Memory Stick media. Memory Stick media is a compact, portable, and versatile device especially designed for exchanging and sharing digital data with compatible products, such as digital cameras, mobile phones and other devices. Because it is removable, it can be used for external data storage.

For the latest information on Memory Stick media, visit the Sony online support Web site at <u>http://www.sony.com/pcsupport</u> for customers in USA, at <u>http://www.sony.ca/support</u> for customers in Canada, or at <u>http://www.sony.com/lapcsupport</u> for customers in Latin American countries or areas.

Write-protecting a Memory Stick Media

Some versions of Memory Stick media are designed with an erasure prevention switch to protect valuable data from accidental erasure or overwriting.

Move the tab horizontally or vertically^{*} to set or release write-protection. When the erasure prevention switch is off, data can be saved on the Memory Stick media. When the erasure prevention switch is on, data can be read from but not saved on the Memory Stick media.



* Some versions of Memory Stick media do not have an erasure prevention switch.



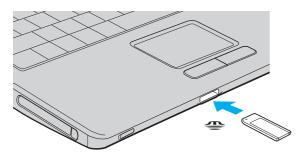
Inserting a Memory Stick Media

There are two ways you can insert a Memory Stick media into your computer:

- □ Using the Memory Stick media slot;
- □ Using a PC Card slot. To do this, you need an optional PC Card adapter.

To insert a Memory Stick media using the Memory Stick media slot

- 1 Hold the Memory Stick media with the arrow facing up and toward the Memory Stick media slot.
- 2 Carefully slide the Memory Stick media into the slot until it clicks in place. The Memory Stick media is automatically detected by your system and appears in your My Computer window as a local drive, under the appropriate letter (depending on the configuration of the computer).



Be sure to hold the Memory Stick media with the arrow pointing in the correct direction as you insert it into the slot. To avoid damaging the computer or the Memory Stick media, do not force the Memory Stick media into the slot if it does not insert smoothly.

Do not insert more than one Memory Stick media into the Memory Stick media slot. Inserting the media improperly may damage the computer.



Þ

The computer supports Memory Stick Duo media and is equipped with the Memory Stick combo slot that is compatible with both standard- and duosize media. For more information on Memory Stick Duo media, visit the Memory Stick web site at http://www.memorystick.com/en/.

To view the contents of the Memory Stick media

- 1 Click Start and then My Computer to open the My Computer window.
- 2 Double-click the Memory Stick media icon 🕖 to view the list of data files saved in the Memory Stick media.

To format a Memory Stick media

Use the Memory Stick Formatter software. See the help file on the Memory Stick Formatter software for details.



Removing a Memory Stick Media

To remove a Memory Stick media using the Memory Stick media slot

- 1 Check that the Memory Stick media indicator is off.
- 2 Push the Memory Stick media in toward the computer. The Memory Stick media ejects.
- 3 Pull the Memory Stick media out of the slot.

Always remove the Memory Stick media gently, or it may pop out unexpectedly.

Do not remove the Memory Stick media while the Memory Stick media indicator is turned on. If you do, you may lose data. Large volumes of data may take time to load, so be sure the indicator is off before removing the Memory Stick media.



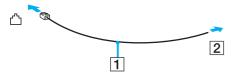
Using the Internet

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 Plug one end of the phone cable (1) into the modem port $rac{1}{}$ on the computer.
- 2 Plug the other end into the wall jack (2).



Þ

The 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 Click Start, point to All Programs, Accessories, Communications, and click New Connection Wizard. The New Connection Wizard appears.
- 2 Click Next. If the Location Information window appears, follow the on-screen instructions.
- 3 If it is not already selected, click to select Connect to the Internet, and click Next.
- 4 Follow the on-screen instructions.

Using Wireless LAN (WLAN)

Using the Sony Wireless LAN (WLAN), all your digital devices with built-in WLAN functionality communicate freely with each other through a powerful network. A WLAN is a network in which a user can connect to a local area network (LAN) through a wireless (radio) connection. So there is no need anymore to pull cables or wires through walls and ceilings.

The Sony WLAN supports all normal Ethernet activities, but with the added benefits of mobility and roaming. You can still access information, internet/intranet and network resources, even in the middle of a meeting, or as you move from one place to another.

You can communicate without an Access Point, which means that you can communicate between a limited number of computers (ad-hoc). Or you can communicate through an Access Point, which allows you to create a full infrastructure network (infrastructure).

Þ

WLAN uses the IEEE802.11b/g standard, which specifies the used technology. The standard includes the encryption method: **Wired Equivalent Privacy** (WEP), which is a security protocol and **WiFi Protected Access** (WPA - Proposed jointly by the IEEE and Wi-Fi Alliance, WiFi Protected Access is a specification of standards based, interoperable security enhancements that increase the level of data protection and access control for existing WiFi networks. WPA has been designed to be forward compatible with the IEEE802.11i specification. It utilizes the enhanced data encryption TKIP (Temporal Key Integrity Protocol) in addition to user authentication using 802.1X and EAP (Extensible Authentication Protocol)). Data encryption protects the vulnerable wireless link between clients and Access Points. Besides that, there are other typical LAN security mechanisms to ensure privacy, such as: password protection, end-to-end encryption, virtual private networks, and authentication.

Wireless LAN devices using the IEEE802.11a standard and the ones using the IEEE802.11b or g standard cannot communicate because the frequencies are different.

IEEE802.11b: The standard speed is 11 Mbps, or about 30 to 100 times faster than a standard dial up.

IEEE802.11a/g: The standard speed is 54 Mbps, or about 5 times faster than a Wireless LAN device using the IEEE802.11b standard.



Communicating without an Access Point (Ad-hoc)

An ad-hoc network is a network 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.



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To communicate without an Access Point (ad-hoc)

1 Turn on the WIRELESS or WIRELESS LAN switch. The WIRELESS LAN indicator lights up.

On models with the Bluetooth functionality^{*1}, double-click 🔜 (🖪 / 🔤) on the taskbar to display the **Wireless Device Switch** window. Select the **Enable 2.4 GHz Wireless LAN** check box and click **OK**.

- 2 Click Start and then Control Panel.
- 3 Click Network and Internet Connections.
- 4 Click Network Connections. The Network Connections window appears.
- 5 Right-click Wireless Network Connection, then click Properties. The Wireless Network Connection Properties window appears.
- 6 Select the Wireless Networks tab.
- 7 Click the Add... button.The Wireless network properties window appears.
- 8 Enter a Network name (SSID)^{*2}. You can choose a 32-digit alphanumeric name.
- 9 Select Open from the Network Authentication drop-down box.
- 10 Select WEP from the Data Encryption drop-down box.
- **11** Deselect the **The key is provided for me automatically** option button. Some information becomes visible.
- **12** Enter the Network key^{*2}.

The network key should be 5 or 13 alphanumeric characters or 10 or 26 hexadecimal^{*3} characters long. You can choose whatever you want.



- 13 Enter exactly the same Network key again, for confirmation.
- 14 Select the check box This is a computer-to-computer (ad hoc) network; wireless access points are not used at the bottom of the screen.
- **15** Click **OK**. Your Network name appears in the **Preferred networks**.
- 16 Click Advanced. The Advanced window appears.
- 17 Select the Computer-to-computer (ad hoc) networks only option button.
- 18 Click Close.
- 19 Click OK.

The computer is ready to communicate with another computer.

- ^{*1} See the online **Specifications** to see whether your model supports the Bluetooth functionality.
- *2 If you want to communicate between two or more computers, you need to configure all these computers the exact same way. This means that you need to enter the same Network name and the same Network key on all computers as on the first computer you configure.
- *3 Hexadecimal: A number representation using the digits 0-9, with their usual meaning, plus the letters A-F (or a-f) to represent hexadecimal digits with values of (decimal) 10 to 15.

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An ad-hoc network does not support WPA.

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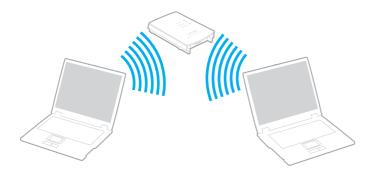
To disconnect from a computer-to-computer (ad-hoc) network

- 1 Click Start and then Control Panel.
- 2 Click Network and Internet Connections.
- 3 Click Network Connections. The Network Connections window appears.
- 4 In the right panel under LAN or High-Speed Internet, double-click Wireless Network Connection. The Wireless Network Connection Status window appears.
- 5 Click Properties. The Wireless Network Connection Properties window appears.
- 6 On the Wireless Networks tab, click Advanced. The Advanced window appears.
- 7 Click to select Any available network (access point preferred), and click Close.
- 8 Click OK.
- 9 Click Close.
- 10 Turn off the WIRELESS or WIRELESS LAN switch.



Communicating with an Access Point (Infrastructure)

An infrastructure network is a network that extends an existing wired local network to wireless devices by providing an Access Point, for example the Sony 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.



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To connect to a wireless network

- Make sure an access point is set up. See the instructions that accompanied the access point for more information.
- 2 Turn on the WIRELESS LAN switch. The WIRELESS LAN indicator lights up.
- 3 Click Start and then Control Panel.
- 4 Click Network and Internet Connections.
- 5 Click Network Connections.
- 6 In the right panel under LAN or High-Speed Internet, double-click Wireless Network Connection. The Wireless Network Connection window appears.
- 7 Follow the on-screen instructions.



To connect to a wireless network (Models with the VAIO Wireless Utility software only)

Use the **VAIO Wireless Utility** software to guide you through the set up process and provide you with more detailed information about wireless connections.

- Make sure an access point is set up. See the instructions that accompanied the access point for more information.
- 2 Turn on the **WIRELESS** or **WIRELESS LAN** switch. The WIRELESS LAN indicator lights up.

On models with the Bluetooth functionality^{*}, double-click **[]** (**B** / **]**) on the taskbar to display the **Wireless Device Switch** window. Select the **Enable 2.4 GHz Wireless LAN** check box and click **OK**.

- 3 Click Start, point to All Programs, and click VAIO Wireless Utility. The VAIO Wireless Utility appears.
- 4 Follow the on-screen instructions.
- * See the online **Specifications** to see whether your model supports the Bluetooth functionality.

To disconnect from a wireless network

Turn off the WIRELESS or WIRELESS LAN switch.

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

Þ

The WPA key needs to contain at least 8 characters.



Wireless LAN Channel Selection

In an 802.11b/g configuration, channel 1 to 11 can be used.

(a) With an Access Point ("Infrastructure")

□ The channel used will be the channel selected by the Access Point.

For details on how to select the channel that will be used by the Access Point, see the access point manual.

(b) Without an Access Point ("ad-hoc")

- □ If the Wireless connection is initiated by the VAIO computer, channel 11 will be selected.
- □ If the Wireless connection is initiated by a peer Wireless LAN equipment, the Wireless LAN communication will make use of the channel selected by the peer Wireless LAN equipment.

Þ

The 2.4 GHz bandwidth used by wireless LAN compatible devices is also used by other various devices. Although technologies to minimize interference from other devices that uses the same bandwidth are employed on wireless LAN compatible devices, such interference may cause lower communication speed, narrower communication range, or broken wireless connections.

The communication speed varies depending on the distance between communication devices, existence of obstacles between such devices, the device configuration, the radio conditions, and the software in use. In addition, communications may be cut off depending on the radio conditions.

The communication range varies depending on the actual distance between communication devices, existence of obstacles between such devices, the radio conditions, the ambient environment that includes existence of walls and materials of such walls, and the software in use.

Deploying IEEE802.11b and IEEE802.11g products on the same wireless network may reduce the communication speed due to radio interference. Taking this into consideration, the IEEE802.11g products are designed to reduce the communication speed to ensure communications with IEEE802.11b products.

When the communication speed is not as fast as expected, changing the wireless channel on the access point may increase the communication speed.

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Using Peripheral Devices

You can add functionality to your computer by using the various ports on the computer.

- □ Connecting a Port Replicator (page 57)
- □ Connecting External Speakers (page 61)
- □ Connecting an External Display (page 62)
- □ Selecting Display Modes (page 68)
- **Using the Multiple Monitors Function (page 69)**
- □ Connecting an External Microphone (page 71)
- □ Connecting a Universal Serial Bus (USB) Device (page 72)
- □ Connecting a Printer (page 75)
- □ Connecting an i.LINK Device (page 77)
- □ Connecting to a Network (LAN) (page 79)



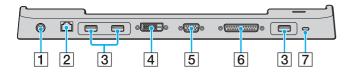
Connecting a Port Replicator

Attaching a port replicator enables you to connect additional peripherals to your computer, such as a printer and an external display.

A port replicator may be supplied with your computer, depending on the model you purchased. If not, you can additionally purchase an optional port replicator.

See the online Specifications to see whether your model is supplied with a port replicator.

Locating Ports on the Port Replicator



-	DC In part (page 10)
	DC In port (page 19)
2	Network (Ethernet) port (100BASE-TX / 10BASE-T) (page 79)
3	Hi-Speed USB (USB 2.0) ports [*] (page 72)
4	DVI-D port (page 63)
5	Monitor (VGA) port (page 63)
6	Printer port (page 76)
7	Security slot
*	Supports high-/full-/low- speeds.

The port replicator can be powered only through the AC adapter supplied with the computer. Do not unplug the AC adapter from the port replicator and the AC outlet while using the port replicator; this may cause data damage or hardware malfunctions.

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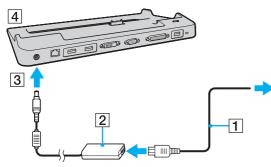
The printer port on the port replicator is intended for printer connections only.



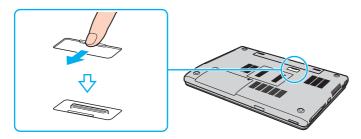
Attaching Your Computer to the Port Replicator

To attach your computer to the port replicator

- 1 Disconnect all peripherals from the computer.
- 2 Plug the power cord (1) into the AC adapter (2) and an AC outlet.
- **3** Plug the cable attached to the AC adapter (2) into the DC In port (3) on the port replicator (4).

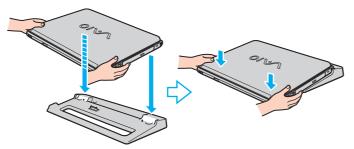


4 Open the port replicator connector cover.





5 Align the bottom connector of the computer with the connector on the port replicator and push down until it clicks into place.



6 Turn on the computer.

Use the AC adapter supplied with the computer.

Do not move the computer while attached to the port replicator; this may detach the port replicator and cause damage to the port replicator and the computer.



Disconnecting Your Computer from the Port Replicator

To prevent loss of unsaved data, be sure to turn off the computer before disconnecting it from the port replicator.

To disconnect your computer from the port replicator

- 1 Turn off the computer and the connected peripherals.
- 2 Lift the computer away from the port replicator.



3 Close the port replicator connector cover on the bottom of the computer.

Þ

It is extremely important to close the port replicator connector cover after disconnecting the computer from the port replicator. If the cover is left open, dust may get inside and damage the computer.

To disconnect the port replicator completely from AC power, unplug the AC adapter.

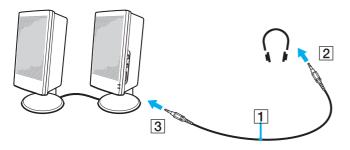
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Connecting External Speakers

You can enhance the sound quality of your computer by connecting external speakers.

To connect external speakers

- 1 Plug the speaker cable (1) into the headphones jack (2) \bigcirc .
- 2 Plug the other end of the speaker cable to the external speaker (3).
- **3** Turn down the volume of the speakers before you turn them on.



Æ

Make sure your speakers are designed for computer use.

Do not place floppy disks on the speakers; their magnetic field may damage the data on the disks.



Connecting an External Display

You can connect an external display to your computer. For example, you can use the computer with a computer display or a projector.

- □ Connecting a Computer Display (page 63)
- □ Connecting a Multimedia Computer Display (page 64)
- □ Connecting a TV (page 65)
- □ Connecting a Projector (page 67)

Þ

Connect the power cord after connecting all other cables.

Connected external displays are used as second screens.

On Windows systems only, you can also use an external display to set up multiple monitors.

When the computer is attached to the optional port replicator, you can only use the VGA port on the port replicator.

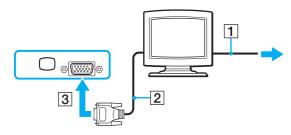


Connecting a Computer Display

You can connect a computer display (monitor) either directly to your computer or via the (optional) port replicator.

To connect a computer display

- 1 If necessary, plug one end of the display's power cord (1) into the display, and the other end into an AC outlet.
- 2 If you want to connect a VGA monitor, plug the display cable (2) (not supplied) into the monitor (VGA) port (3) □ on the computer or on the port replicator.
- 3 If you want to connect a TFT/DVI monitor, plug the display cable (not supplied) into the DVI-D port on the port replicator.



DVI-D stands for Digital Visual Interface - Digital. It is a type of DVI connector that supports only digital video signals (no analog video signals). It has 24 pins.

A DVI-I connector (Digital Visual Interface - Integrated) supports digital video and analog video signals. It has 29 pins.

Å video adapter device is required to connect a VGA monitor using the DVI-D port.

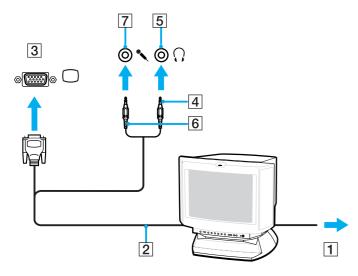


Connecting a Multimedia Computer Display

You can connect a multimedia computer display that includes built-in speakers and a microphone to your computer or via the (optional) port replicator.

To connect a multimedia computer display

- 1 Plug the power cord of the multimedia computer display (1) into an AC outlet.
- 2 Plug the display cable (2) (not supplied) into the monitor (VGA) port (3) \Box on the computer or on the port replicator.
- **3** Plug the speaker cable (4) into the headphones jack (5) \bigcirc on the computer.
- 4 Plug the microphone cable (6) into the microphone jack (7) \checkmark on the computer.



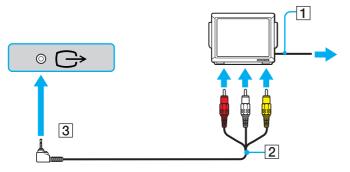


Connecting a TV

You can connect a TV to your computer.

To connect a TV to the computer

- 1 Plug the power cord of the TV (1) into an AC outlet.
- 2 Plug one end of an audio/video cable (2) into the AV Out jack (3) \bigcirc on the computer and the other to the TV.
- 3 Switch the input channel of the TV to external input.
- 4 Set up the TV configuration system.



Þ

You need to use an AV cable that has a minijack connector on one end and 3 RCA (also called cinch) connectors on the other end. If your TV does not have RCA connectors, but it has a Scart connector, you need an RCA to Scart converter. If your computer has an S VIDEO port, you can use this port as an alternative means of connection.



Þ

See the manual supplied with your peripheral for more information on installation and use.

If the display resolution of the computer is more than 1024 x 768 pixels, a part of the image cannot be displayed on your TV. The hidden area on your TV can be seen by moving the cursor on the computer. If you want to display the full image, change the display resolution of the computer to 1024 x 768 pixels or lower.

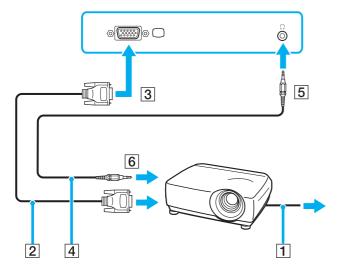


Connecting a Projector

You can connect a projector (for example, the Sony LCD projector) directly to your computer or via the (optional) port replicator.

To connect a projector

- 1 Connect the power cord (1) of the projector into an AC outlet.
- 2 Plug the RGB signal cable (2) into the monitor (VGA) port (3) \Box on the computer or on the port replicator.
- **3** Plug the audio cable (4) (not supplied) into the headphones jack (5) \bigcirc .
- 4 Plug the RGB signal cable and the audio cable into the jack and port on the projector (6).





Selecting Display Modes

You can select which display to be used as the primary monitor when an external display (desktop monitor, etc.) is connected to your computer.

If you want to work on the computer's LCD and the external display at the same time, see **Using the Multiple Monitors Function (page 69)** for more information.

To select a display

- 1 Right-click on the desktop to display the context menu.
- 2 Click Graphic Properties.
- 3 Select a display from the **Display Devices** menu.
- 4 Click OK.

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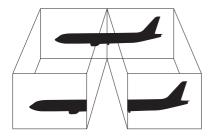
You may not be able to display on the computer's LCD and the external display or projector at the same time, depending on the type of your external display or projector.

Before turning on the computer, turn on the peripheral devices.

Using the Multiple Monitors Function

The Multiple Monitors function allows you to distribute portions of your desktop across separate displays. For example, if you have an external display attached to the monitor (VGA) port, your computer's LCD and the external display can function as a single desktop.

You can move the cursor from one display to the other. This allows you to drag objects, such as an open application window or a toolbar, from one display to the other.



Þ

Your external display may not support the Multiple Monitors function.

Certain software applications may not be compatible with Multiple Monitors settings.

Make sure that the computer does not enter Standby or Hibernate mode while you are using Multiple Monitors mode; otherwise the computer may not return to Normal mode.

If you set different colors on each display, do not divide one single window on two displays; otherwise your software may not work properly.

Set fewer colors or a lower resolution for each display.

\sim 10

To select the Multiple Monitors mode

- 1 Right-click on the desktop to display the context menu.
- 2 Click Graphics Properties.
- 3 Select Extended Desktop from the Display Devices menu. To change the primary and secondary device settings, use the Primary Device and Secondary Device drop-down lists under Multiple Display.
- 4 Click OK.

If the Monitor Settings window appears, click OK.

Þ

You can also change one of the **S** button assignments to activate the Multiple Monitors mode with the respective **S** button. To change the **S** button assignments, press and hold any **S** button to display the window for changing the assignment. For details on the **S** buttons, see **Using Special-function Buttons (page 30)**.

Þ

Additionally, you can set the display colors and resolution for each display and customize the Multiple Monitors mode.

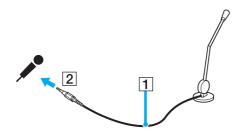


Connecting an External Microphone

If you need to use a sound input device (for example, to chat on the Internet) you need to plug in an external microphone.

To connect an external microphone

Plug the microphone cable (1) into the microphone jack (2) **\$**.



Make sure your microphone is designed for computer use.



Connecting a Universal Serial Bus (USB) Device

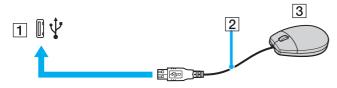
To prevent your computer and/or USB devices from damage, observe the following:

- □ When moving the computer with USB devices connected, avoid any shock or force to the USB ports.
- Do not put the computer into a bag or carrying case when it has USB devices connected.

Connecting a USB Mouse

To connect a USB mouse

- 1 Choose the USB port (1) ψ you prefer to use.
- 2 Plug the USB mouse cable (2) into the USB port. You can now use your USB mouse (3).



Æ

The VAIO USB mouse software driver is preinstalled on the computer. As a result, you only need to plug the USB mouse into the USB port and you can start working.

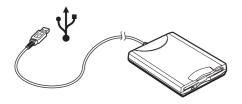


Connecting a USB Floppy Disk Drive

You can purchase a USB floppy disk drive and connect it to your computer.

To connect a USB floppy disk drive

- 1 Choose the USB port ψ you prefer to use.
- 2 Plug the USB floppy disk drive cable into the USB port. Your USB floppy disk drive is now ready for use.



When using a USB floppy disk drive, do not apply force on the USB port. This may cause a malfunction.



Disconnecting a USB 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.

If the computer is off, you can unplug the USB cable directly from the computer.

To disconnect a USB floppy disk drive

- 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 you want to unplug.
- 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.



Connecting a Printer

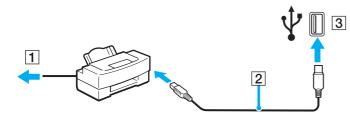
You can connect a Windows-compatible printer to your computer to print documents.

Connecting a Printer Using the USB Port

You can connect a USB printer compatible with your version of Windows to the computer.

To connect a printer using the USB port

- 1 Plug the printer power cord into an AC outlet (1).
- 2 Choose the USB port (3) \checkmark you prefer to use.
- 3 Plug one end of a USB printer cable (2) into the USB port and the other end to your printer.

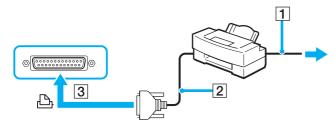




Connecting a Printer Using the Printer Port

To connect a printer using the printer port

- 1 Plug the printer power cord (1) into an AC outlet.
- 2 Plug the printer cable (2) supplied with your printer into the printer port (3) 🕒 on the (optional) port replicator.



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Before connecting the printer, turn off the computer and the printer, and unplug the AC adapter and the power cord.



Connecting an i.LINK Device

Notes on connecting i.LINK devices

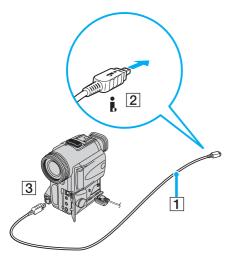
- □ The computer includes an i.LINK (IEEE1394) port, which you can use to connect to an i.LINK device such as a digital video camera recorder or to connect two VAIO computers in order to copy, delete or edit files.
- **D** The i.LINK port of the computer does not supply power to external devices generally powered by i.LINK ports.
- □ The i.LINK port supports transfer rates up to 400 Mbps; however, the actual transfer rate depends on the transfer rate of the external device.
- i.LINK cables compatible with the computer include cables with the following part numbers: VMC-IL4415 (a 1.5 meter cable with a 4-pin connector at each end), VMC-IL4408 Series (a 0.8 meter cable with a 4-pin connector at each end).
- □ The optional i.LINK cables may not be available, depending on your country or region.
- □ An i.LINK connection with other compatible devices is not fully guaranteed.
- □ The i.LINK connection varies depending on the software applications, operating system and i.LINK compatible devices you use. Refer to the manual that came with your software for more information.
- □ Check the working conditions and OS compatibility of i.LINK-compatible PC peripherals (for example, an HDD or CD-RW drive) before you connect them to the computer.



Connecting a Digital Video Camera Recorder

To connect a digital video camera recorder

- 1 Plug one end of the i.LINK cable (1) into the i.LINK port (2) on the computer and the other end into the DV In/Out ports (3) on the digital video camera recorder.
- 2 Launch the DVgate Plus software.



² On Sony digital video cameras, ports labeled **DV Out**, **DV In/Out** or **i.LINK** are i.LINK-compatible.

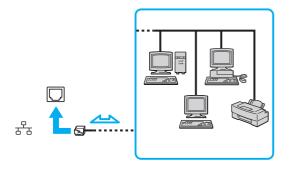
The Sony digital video camera recorder shown here is an example; your digital video camera recorder may need to be connected differently.

You cannot access the pictures stored on a Memory Stick media when using an i.LINK connection.

Download from Www.Somanuals.com. All Manuals Search And Download.

Connecting to a Network (LAN)

You can connect your computer to 100BASE-TX/10BASE-T-type networks via an Ethernet network cable. Connect one end of an optional network cable to the Network (Ethernet) port on the computer or the (optional) port replicator and the other end to your network. For detailed settings and devices needed to connect to the network, see your network administrator.



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The computer can be connected to the network with the default settings.

When the computer is attached to the optional port replicator, you can only use the Network (Ethernet) port on the port replicator.



Telephone lines cannot be connected to the Network (LAN) connector on your computer.

If the Network (LAN) connector is connected to the telephone lines mentioned below, high electric current to the connector may cause damage, overheating or fire.

- Home (intercom speakerphone) or business-use telephone lines (multi-line business telephone)
- Public telephone subscriber line
- PBX (private branch exchange)

Do not plug a telephone cable into the network port.

Customizing Your VAIO Computer

This section briefly describes how to change the main settings of your computer.

- □ Setting the Password (page 82)
- □ Setting Up Your Computer with VAIO Central (page 85)
- □ Using the Power Saving Modes (page 86)
- Managing Power with VAIO Power Management (page 91)



Setting the Password

Use one of the BIOS functions to set the password.

Once you have set the password, you will have to enter the password after the VAIO logo appears to start your computer. The power-on password will allow you to protect your computer from unauthorized access.



Adding the Power-on Password

Once you have set the power-on password, you cannot start the computer without entering the password. Make sure not to forget the password. Write down your password and keep it safe and private from other people.

If you forget the power-on password and need assistance to reset, a password reset fee will be charged, and your computer may need to be sent in for depot service for password reset.

To add the power-on password

- 1 Turn on the computer.
- 2 Press the F2 key when the VAIO logo appears. The BIOS setup screen appears. If not, restart the computer and press the F2 key several times when the VAIO logo appears.
- 3 Use the ← or → key to select Security to display the Security tab, select Set Machine Password, and then press the Enter key.
- 4 On the password entry screen, enter the password twice and press the **Enter** key. The password can be up to 32 alphanumeric characters (including spaces) long.

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The following is to configure the computer to prompt password entry when you turn it on or display the BIOS setup screen.

- 5 Select **Password When Power ON** under **Security**. Press the space bar to change the setting from **Disabled** to **Enabled**.
- 6 Use the ← or → key to select Exit and select Exit (Save Changes); and then press the Enter key. On the Setup Confirmation screen, make sure that Yes is selected and then press the Enter key.



Changing/Removing the Power-on Password

To change or remove the power-on password

- **1** Turn on the computer.
- 2 Press the F2 key when the VAIO logo appears. The BIOS setup screen appears. If not, restart the computer and press the F2 key several times when the VAIO logo appears.
- 3 Enter the current password for Enter Password:
- 4 Use the ← or → key to select Security to display the Security tab, select Set Machine Password, and then press the Enter key.
- 5 On the password entry screen, enter the current password once and a new password twice, and then press the Enter key. To remove the password, leave the Enter New Password and Confirm New Password fields blank and press the Enter key.
- 6 Use the ← or → key to select Exit and select Exit (Save Changes); and then press the Enter key. On the Setup Confirmation screen, confirm that Yes is selected and then press the Enter key.



Setting Up Your Computer with VAIO Central

The VAIO Central utility allows you to consult system information and specify preferences for system behavior.

To use VAIO Central

- 1 Click Start, point to All Programs, and click VAIO Central. The VAIO Central window appears.
- 2 Select the desired control item and change the settings.
- Once finished, click OK.
 The setting of the desired item has been changed.

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Some of the control items will not be visible if you open VAIO Central as a limited user.

Using the Power Saving Modes

When you use a battery as the power source for your computer, you can take advantage of power management settings to conserve battery life. In addition to the normal operating mode, which allows you to turn off specific devices, your computer has two distinct power saving modes: Standby and Hibernate. When using battery power, you should be aware that the computer automatically enters Hibernate mode when the remaining battery charge becomes short, regardless of the power management setting you select.

If the battery level falls below 10 percent, you should either attach the AC adapter to recharge the battery or shut down the computer and install a fully charged battery.

Using Normal Mode

This is the normal state of the computer when it is in use. The green power indicator light is on in this mode. To save power while not working, you can turn off a specific device such as the LCD or the hard disk.



Using Standby Mode

Standby mode turns off the LCD screen and sets the hard disk and the CPU to a low power consumption mode. The umber power light flashes in this mode.

To activate Standby mode

- 1 Click Start and then Turn Off Computer.
- 2 Click Stand By.

To return to Normal mode

Press any key.

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If you press the power button for more than four seconds, the computer will switch off automatically. You will lose any unsaved data.

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When the computer is in Standby mode, you cannot insert a disc.

The computer comes out of Standby mode quicker than out of Hibernate mode.

Standby mode uses more power than Hibernate mode.

You can use **VAIO Central** to configure the computer to return to Normal mode when you open the LCD screen lid. This power resuming setting will be lost if you remove both the AC adapter and the battery. See **Setting Up Your Computer with VAIO Central (page 85)**.

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If the battery runs down when the computer enters Standby mode, you will lose any unsaved data. Going back to the previous work state is impossible. To avoid loss of data, you should save your data frequently.

If the computer is not used for 25 minutes, it will enter Standby mode. To avoid this, you can change the Standby mode settings.

To change the Standby mode settings

- 1 Click Start and then Control Panel.
- 2 Click Performance and Maintenance.
- 3 Click Power Options. The Power Options Properties window appears.
- 4 Select the **Power Schemes** tab.
- 5 Change the System Standby settings.



Using Hibernate Mode

In Hibernate mode, the state of the system is saved on the hard disk and power is turned off. Even when the battery runs down, no data will be lost. The power indicator light is off in this mode.

To activate Hibernate mode

Press the Fn+F12 keys.

The Hibernating screen appears and the computer enters Hibernate mode.

Alternatively,

- 1 Click Start and then Turn Off Computer.
- 2 Click Hibernate.
- To return to Normal mode

Turn on the computer by pressing the power button.

The computer returns to its previous state.

If you press the power button for more than four seconds, the computer will switch off automatically.



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If you do not use the computer for a long period of time, put the computer into Hibernate mode. This power saving mode saves you the time of shutting down in the normal way.

When the computer is in Hibernate mode, you cannot insert a disc.

Hibernate mode requires more time than Standby mode to be activated.

It takes more time to return to Normal mode from Hibernate mode than from Standby mode.

Hibernate mode uses less power than Standby mode.

You can use VAIO Central to configure the computer to return to Normal mode when you open the LCD screen lid. This power resuming setting will be lost if you remove both the AC adapter and the battery. See Setting Up Your Computer with VAIO Central (page 85).

Do not move the computer until its power indicator light turns off.

Managing Power with VAIO Power Management

Power management helps you to set up power schemes for running on AC power or batteries to suit your requirements for power consumption.

VAIO Power Management is a software application developed exclusively for VAIO computers. With this software application, you can enhance the Windows power management functions to ensure better operations of your computer and for longer battery life. For more information on **VAIO Power Management**, see the help file on the **VAIO Power Management** software.

Activating VAIO Power Management

When you start the computer, a **power status** icon appears on the taskbar. This icon indicates what kind of power source you are using at that time, for example, AC power. If you double-click this icon, the **Power Meter** window appears showing you the power status.

VAIO Power Management functionalities are added to the Windows Power Options Properties.

To activate VAIO Power Management

- 1 Click Start and then Control Panel.
- 2 Click Performance and Maintenance.
- 3 Click Power Options. The Power Options Properties window appears.
- 4 Select the VAIO Power Management tab.

To restore the default settings

- 1 On the VAIO Power Management tab, click Advanced. The VAIO Power Management window appears.
- 2 Follow the on-screen instructions to change the settings.



Activating VAIO Power Management Power Schemes

VAIO Power Management provides several predefined **power schemes**. Each power scheme consists of a group of power management settings that are designed to meet specific power management goals, ranging from maximum power management to no power management.

To activate a VAIO Power Management power scheme

- 1 Click Start and then Control Panel.
- 2 Click Performance and Maintenance.
- 3 Click Power Options. The Power Options Properties window appears.
- 4 Select the **Power Schemes** tab.
- 5 Select a power scheme from the **Power schemes** drop-down list.
- 6 If you now select the VAIO Power Management tab, you see that the selected power scheme appears to the right of Power Scheme.
- 7 If necessary, you can change the items in the list, for example, the brightness of the LCD.
- 8 Click OK.

The power scheme has been activated.

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You must have administrator rights on the computer to set up a power scheme.

For more information on VAIO Power Management and Power Schemes, see the help guide of the VAIO Power Management software.

Upgrading Your VAIO Computer

Your computer and memory modules use high precision components and electronic connectors technology. To avoid the invalidation of your guarantee due to mishandling, we recommend that:

- □ You contact your dealer to install a new memory module.
- □ You do not install it yourself, if you are not familiar with upgrading memory on a computer.
- □ You do not touch the connectors or open the memory panel.

For the type of module and amount of memory installed on your model, refer to the online Specifications.

For assistance, contact an authorized Sony Service Center. To find the nearest center or agent, visit the Sony online support Web site.

Adding and Removing Memory

If you want to expand the functionality of your computer, you can increase the memory by installing optional memory modules. Before you upgrade your computer's memory, read the notes and procedures in the following pages. The number of available slots depends on the configuration of your model.

Notes on adding/removing memory modules

- Be careful when changing memory. Improper installation of memory modules may cause damage to your system. This damage may void your manufacturer's warranty.
- Only use memory modules that are compatible with the computer. If a memory module is not detected by the computer or Windows becomes unstable, contact your sales dealer or the manufacturer of your memory module.
- **□** Electrostatic discharge can damage electronic components. Before touching a memory module, ensure the following:
 - The procedures described in this document 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.
 - Turn off the computer and disconnect the system from its power source (that is, battery or AC adapter) and from any telecommunication links, networks, or modems before you open the computer. Failure to do so may result in personal injury or equipment damage.
 - Electrostatic Discharge (ESD) can damage memory modules and other components. Install the memory module 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 maintaining contact with an unpainted metal portion of the chassis while performing the procedure.
 - Do not open the memory module package until you are ready to change the module. The package protects the module from ESD.



- Use the special bag delivered with the memory module or wrap the module in aluminium foil to protect it from electrostatic discharge.
- □ 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 and any repair costs will not be covered by the warranty.
- Do not place the memory module in places subject to
 - Heat sources such as radiators or air ducts
 - Direct sunlight
 - Excessive dust
 - Mechanical vibration or shock
 - □ Strong magnets or speakers that are not magnetically shielded
 - □ Ambient temperature of more than 95°F (35°C) or less than 41°F (5°C)
 - □ High humidity
- □ Handle the memory module with care. To avoid injuries to your hands and fingers, do not touch the edges of the components and circuit boards inside the computer.

Removing and Installing a Memory Module

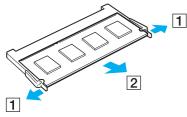
To change or add a memory module

- 1 Shut down the computer and disconnect all peripheral devices.
- 2 Unplug the computer and remove the battery.
- 3 Wait until the computer cools down.
- 4 Unscrew the screw at the bottom of the computer.



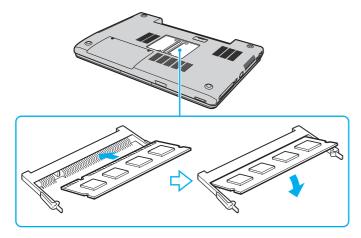
5 Touch a metal object (such as the connector panel on the back of the computer) to discharge static electricity.

- 6 Remove the memory module:
 - Pull the latches in the direction of the arrows (1).
 The memory module is released.



□ Make sure that the memory module tilts up and then pull it out in the direction of the arrow (2).

7 Slide the memory module into the memory module slot and push it in until it clicks into place.



Do not touch any other components on the motherboard.

Make sure to insert the memory module edge with a notch into the memory module slot.

- 8 Close the module cover and then tighten the screws on the bottom of the computer.
- 9 Reinsert the battery and turn on the computer.

Viewing the Amount of Memory

To view the amount of memory

- **1** Turn on the computer.
- 2 Click Start, point to All Programs, and click VAIO Central.
- 3 Click the System Information tab in the VAIO Central window.
- 4 Double-click the System Information folder.
- 5 Double-click the System Information icon. You can view the amount of system memory. If the additional memory does not appear, repeat the whole procedure and restart the computer.



Precautions

This section describes safety guidelines and precautions to help you protect your computer from potential damage.

- □ On Handling the LCD Screen (page 101)
- □ On Using the Power Source (page 102)
- □ On Handling Your Computer (page 103)
- □ On Using the Built-in MOTION EYE Camera (page 105)
- □ On Handling Floppy Disks (page 105)
- □ On Handling Discs (page 106)
- □ On Using the Battery Pack (page 107)
- □ On Using Headphones (page 108)
- □ On Handling Memory Stick Media (page 108)
- □ On Handling the Hard Disk (page 109)



On Handling the LCD Screen

- Do not leave the LCD facing the sun. This could damage the LCD. Be careful when using the computer near a window.
- Do not scratch the LCD or exert pressure on it. This could 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.
- A residual image may appear on the screen if the same image is displayed for a lengthy period of time. The residual image disappears in a while. You can use a screen saver to prevent residual images.
- **D** 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.
- Avoid rubbing the LCD screen. This could damage the screen. Use a soft, dry cloth to wipe the LCD screen.

On Using the Power Source

- See the online **Specifications** to check the power operation of your model.
- Do not share the AC outlet with other power-consuming equipment, such as a photocopier or shredder.
- □ You can purchase a power strip with a surge protector. This device prevents damage to the computer caused by sudden power surges, in an electrical storm, for example.
- Do not place heavy objects on the power cord.
- □ To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- **U** Unplug the computer from the AC outlet if you are planning to not use the computer for a long time.
- □ Make sure that the AC outlet is easily accessible.
- U When the AC adapter is not used, unplug it from the AC outlet.
- □ Use the AC adapter supplied with the computer or genuine Sony products. Do not use any other AC adapter as it may cause a malfunction.



On Handling Your Computer

- □ Clean the cabinet with a soft cloth, which is dry or 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 the computer.
- □ If you drop a solid object or any liquid onto the computer, shut down the computer and then unplug it. You may want to have the computer checked by qualified personnel before operating it again.
- Do not drop the computer or place heavy objects on top of the computer.
- Do not place the 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 of more than 95°F (35°C) or less than 41°F (5°C)
 - High humidity
- Do not place electronic equipment near the computer. The electromagnetic field of the computer may cause a malfunction.
- Provide adequate air circulation to prevent internal heat from building up. Do not place the computer on porous surfaces such as rugs or blankets, or near material such as curtains or draperies that may block its ventilation slots.
- □ The computer uses high-frequency radio signals and may cause interference to radio or TV reception. If this occurs, relocate the computer a suitable distance away from the set.
- **Use only specified peripheral equipment and interface cables; otherwise, problems may occur.**





- Do not use cut or damaged connection cables.
- □ If the computer is brought directly from a cold location to a warm one, moisture may condense inside the computer. In this case, allow at least one hour before turning on the computer. If any problems occur, unplug the computer and contact an authorized Sony Service Center. To find the nearest center or agent, visit the Sony online support Web site.
- □ Make sure you disconnect the power cord before cleaning the computer.
- □ To avoid losing data if the computer is damaged, back up your data regularly.



On Using the Built-in MOTION EYE Camera

- □ Do not touch the front mirror plate over the lens of the built-in MOTION EYE camera, as it may make scratches on the plate and such scratches will appear on the captured images.
- Do not let the direct sunlight get into the scope of the built-in MOTION EYE camera regardless of the computer's power state, as it may cause a malfunction of the camera.
- □ The built-in MOTION EYE camera is disabled while videos or still images are imported from an i.LINK-compatible device connected to the S400 (i.LINK) connector.
- □ Clean the front mirror plate over the lens of the built-in MOTION EYE camera with a blower brush or a soft brush. If the lens is extremely dirty, wipe it off with a soft dry cloth. Do not rub the plate, as it is force-sensitive.

On Handling Floppy Disks

- Do not open the shutter manually or touch the surface of the floppy disk.
- □ Keep floppy disks away from magnets.
- □ Keep floppy disks away from direct sunlight and other sources of heat.
- □ Keep the floppy disk away from any liquid. Do not let the floppy disk get wet. When you are not using the floppy disk, always remove it from the floppy disk drive and use a storage case.
- □ If the floppy disk comes with a label, make sure that the label is properly attached. If the edge of the label is curled up, the label may stick to the inside of the floppy disk drive and cause a malfunction or damage your floppy disk.



On Handling Discs

- Do not touch the surface of the disc.
- Do not drop or bend the disc.
- □ Fingerprints and dust on the surface of a disc may cause read errors. Always hold the disc by its edges and central hole, as shown below:



- Proper care of the disc is essential to its continuous reliability. Do not use solvents (such as benzine, thinner, alcohol, commercially available cleaners, or anti-static spray) which may cause damage to the disc.
- □ For normal cleaning, hold the disc by its edge and use a soft cloth to wipe the surface from the center out.
- □ 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. Wipe off any remaining moisture with a dry soft cloth.
- □ Never put stickers on discs. This will affect the use of the disc irreparably.

On Using the Battery Pack

- Do not leave the battery pack in temperatures above 140°F (60°C), such as in a car parked in the sun or under direct sunlight.
- D Battery life is shorter in a cold environment. This is due to decreased battery efficiency at low temperatures.
- □ Charge the batteries at temperatures between 18°F to 86°F (10°C to 30°C). Lower temperatures require a longer charging time.
- **D** This computer is designed to operate only with genuine Sony batteries.
- □ While the battery is in use or being charged, the battery pack heats up. This is normal and is not cause for concern.
- □ Keep the battery pack away from all sources of heat.
- □ Keep the battery pack dry.
- Do not open or try to disassemble the battery pack.
- Do not expose the battery pack to any mechanical shock.
- □ If you are not using the computer for an extended period of time, remove the battery pack from the computer to prevent damage to the battery.
- □ If, after fully charging the battery pack, the battery power is still low, the battery pack may be reaching the end of its life and should be replaced.
- □ You do not need to discharge the battery before recharging.
- □ If you have not used the battery pack for a considerable amount of time, recharge the battery.



On Using Headphones

- Road safety Do not use headphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play loud music while walking, especially at pedestrian crossings.
- □ **Preventing hearing damage** Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

On Handling Memory Stick Media

- Do not use the media in locations that are subject to static electricity or electrical noise.
- Do not touch the Memory Stick media connector with your finger or metallic objects.
- **Use only the label supplied with the Memory Stick media as a label.**
- Do not bend, drop, or apply strong shock to the Memory Stick media.
- Do not disassemble or modify Memory Stick media.
- Do not let Memory Stick media get wet.
- Do not use or store Memory Stick media in a location subject to:
 - D Extremely high temperatures, such as in a car parked in the sun
 - Direct sunlight
 - High humidity or
 - □ Corrosive substances
- □ Use the storage case supplied with the Memory Stick media.



On Handling the Hard Disk

The hard disk has a high storage density and reads or writes data in a short time. However, it can be easily damaged by mechanical vibration, shock or dust.

Although the hard disk has the internal safety device to prevent losing data due to mechanical vibration, shock or dust, you should be careful when handling the computer.

To avoid damaging your hard disk

- Do not subject the computer to sudden movements.
- □ Keep the computer away from magnets.
- Do not place the computer in a location subject to mechanical vibration or in an unstable position.
- Do not move the computer while the power is on.
- Do not turn off the power or restart the computer while reading or writing data to disk.
- Do not use the computer in a place subject to extreme changes in temperature.

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If the hard disk is damaged, the data cannot be restored.

Troubleshooting

This section describes how to solve common problems you might encounter when using your computer. Many problems have simple solutions. Try these suggestions before visiting the Sony online support Web site at http://www.sony.com/pcsupport for customers in USA, at http://www.sony.ca/support for customers in Canada, or at http://www.sony.com/lapcsupport for customers in Latin American countries or areas.

- Computer (page 112)
- □ System Security (page 122)
- Battery (page 124)
- Built-in MOTION EYE Camera (page 126)
- □ Internet (page 129)
- Networking (page 131)
- □ CDs and DVDs (page 134)
- Display (page 138)
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- Microphone (page 142)
- Mouse (page 143)
- □ Speakers (page 144)
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- Floppy Disks (page 148)
- PC Cards (page 149)

<u> 10</u>

- □ Audio/Video (page 150)
- Memory Stick Media (page 151)
- Peripherals (page 152)



Computer

What should 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 installed 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 plugged into a power source and turned on.
- □ 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 manual that came with your display for details.
- Disconnect the AC adapter and remove the battery. Wait three to five minutes. Reattach the AC adapter and reinstall the battery, and press the power button to turn on the computer.
- □ Condensation may cause the computer to malfunction. If this occurs, do not use the computer for at least one hour.
- **D** Remove any extra memory modules you may have inserted since purchase.
- □ Check that you are using the supplied Sony AC adapter. For your safety, use only genuine Sony rechargeable battery packs and AC adapters, which are supplied by Sony for your VAIO computer.



What should 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

- 1 Press the **F2** key. The BIOS setup screen appears.
- 2 Set the date (month/day/year). Press Enter.
- 3 Press the ↓ key to select **System Time**, and then set the time (hour: minute: second). Press the **Enter** key.
- 4 Press the → key to select the Exit tab, and then press the F9 key. The message Load default configuration now? appears.
- 5 Select Yes, and press the Enter key.
- 6 Select Exit (Save Changes), and press the Enter key. The message Save configuration changes and exit now? appears.
- 7 Select **Yes**, and press the **Enter** key. The computer restarts.

If this occurs on a regular basis, contact an authorized Sony Service Center. To find the nearest center or agent, visit the Sony online support Web site.



What should I do if the power indicator (Green) lights but my screen does not display anything when I turn on my computer?

If nothing still appears on your screen after a while

- 1 Press the power button for more than four seconds to check that the power indicator goes out. Then turn on the computer again.
- 2 If nothing still appears on your screen, unplug the AC adapter, remove the battery, and leave the computer for about a minute. Then plug in the AC adapter, install the battery, and turn on the computer again.



What should 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 the Windows operating system still does not start, follow these steps to initialize the BIOS:
 - 1 If there is a disk in the floppy disk drive, remove it.
 - 2 Turn off the computer.
 - 3 Remove any peripheral devices connected to the computer.
 - 4 Restart the computer.
 - 5 Press the **F2** key when the VAIO logo appears. The BIOS setup screen appears.
 - 6 Press the \rightarrow key to select the **Exit** menu.
 - 7 Press the **F9** key. The message **Load default configuration now?** appears.
 - 8 Select **Yes**, and press the **Enter** key.
 - 9 Select Exit (Save Changes), and press the Enter key.The message Save configuration changes and exit now? appears.
 - **10** Select **Yes**, and press the **Enter** key. The computer restarts.



What should I do if my computer or software stops responding?

- □ It is best to turn off the 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, point to Turn Off Computer, and then click Turn Off.
- If the computer does not turn off, press the Ctrl+Alt+Delete keys simultaneously. When the Windows Task Manager window appears, click Turn Off from the Shut Down menu.
 When the Windows Security window appears, click Shut Down.
- □ If the 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 the 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.
- □ Try reinstalling the software.
- □ Contact the software publisher or designated provider for technical support.



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

The 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 the U key.
 - 3 Press the R key 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** or **Windows Security** window appears.
 - When the Windows Task Manager window appears, press and release the Alt key to highlight the menu bar, press the → key to select Shut Down, and then follow step 3 and 4.
 When the Windows Security window appears, press the S key to shut down.
 - 3 Press the Enter key.
 - 4 Press the R key 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 doesn't the computer start or the power button does not work when the battery indicator is flashing?

- This symptom could be due to the battery pack not being installed properly. To resolve this symptom, switch off the computer and remove the battery pack. Then install the battery pack to the computer again. For details, see Installing the Battery Pack (page 20).
- If the symptom persists after performing the above, it means the installed battery pack is not compatible. Remove the battery pack and contact an authorized Sony Service Center. To find the nearest center or agent, visit the Sony online support Web site.

Why does a window appear to notify of incompatibility of the battery pack or improper connection to the computer and an operating mode shift to Hibernate?

- This symptom could be due to the battery pack not being installed properly. To resolve this symptom, switch off the computer and remove the battery pack. Then install the battery pack to the computer again. For details, see Installing the Battery Pack (page 20).
- □ If the symptom persists after performing the above, it means the installed battery pack is not compatible. Remove the battery pack and contact an authorized Sony Service Center. To find the nearest center or agent, visit the Sony online support Web site.



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. You can use the power schemes to lower the CPU speed.

To lower the CPU speed using the power schemes*

- 1 Click Start and then 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.
- 4 Click Apply.
- 5 Click OK.
- * Available on selected models only.

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

This is normal. Because the 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 **Windows** key, and press **D** twice.



What should I do if I start my computer and the message "System Disabled" appears and Windows does not start?

If you enter a wrong power-on password three times consecutively, the **Onetime Password** window appears and Windows does not start. Press the power button for more than four seconds to check that the power indicator goes off. Wait for 10 or 15 seconds, then restart the computer and enter the correct password. When entering the password, check that the **Num lock** indicator and **Caps Lock** indicator are off. If any are lit, press the **Num Lk** key or the **Caps Lock** key to turn off the indicator before entering the password.

What should I do if my game software does not work or it keeps crashing?

- □ Check the web site of the game if there are any patches or updates to download.
- □ Make sure you have installed the latest video driver.
- On some VAIO models, the graphics memory is shared with the system. The optimal graphic performance in this case is not guaranteed.

What should I do if I cannot remember the password?

If you have forgotten the password, contact an authorized Sony Service Center to cancel it. A cancellation fee will be charged. To find the nearest center or agent, visit the Sony online support Web site.



What should I do if I cannot use my computer as a VAIO Media or Windows Media Connect server?

To use your computer as a VAIO Media or Windows Media Connect server

- 1 Click Start, point to All Programs and Norton Internet Security, and click Norton Internet Security. The Norton Internet Security 2005 software is launched.
- 2 Click Status & Settings in the left pane under Norton Internet Security. The System Status list is displayed in the right pane.
- 3 Click Personal Firewall and then Configure.
- 4 Click the **Advanced** tab and then **General**.
- 5 Deselect the UPNP Port 1900 Block Rule check box.
- 6 Click OK.

Why does it take time before my computer starts?

If Norton Internet Security's Personal Firewall is active, it may take some time before the Desktop screen appears due to network security checkups.



System Security

This section provides information about keeping your computer operating smoothly and protecting against potential threats to the computer's security.

How can I protect my computer against security threats, such as viruses?

The Microsoft Windows operating system is preinstalled on the computer. The best way to protect the computer against security threats, such as viruses, is to download and install the latest Windows updates regularly.

You can get important Windows updates by doing one of the following:

- The Automatic Updates feature This feature automatically searches for and delivers updates directly to the computer whenever you are connected to the Internet.
- The Windows Updates web site This site enables you to download computer updates without turning on the Automatic Updates feature.

The computer must be connected to the Internet before you can receive updates.

To use the Automatic Updates feature

- **1** Connect to the Internet.
- 2 Click the Automatic Updates icon on the taskbar. The Automatic Updates Setup Wizard appears.
- 3 Click Next, and follow the on-screen instructions to set up automatic or scheduled updates.

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To visit the Windows Updates web site

- 1 Connect to the Internet.
- 2 Type http://windowsupdate.microsoft.com/ in the address bar of your browser. The Microsoft Windows Update and Security Warning windows appear.
- 3 In the Security Warning window, start installation and run Windows Update.
- 4 In the Microsoft Windows Update window, select an installation type, and follow the on-screen instructions.

How do I keep my antivirus software updated?

You can keep the Norton Internet Security software program current with the latest updates from Symantec Corporation.

To download and install the latest security update

- 1 Double-click the **Norton Internet Security** icon on the taskbar. If you have not previously registered the antivirus software, a series of information wizards appear.
 - 1 Follow the on-screen instructions to complete each wizard.
 - Double-click the Norton Internet Security icon again.
 The Norton Internet Security window appears.
 If you have previously registered this antivirus software, the Norton Internet Security window automatically appears.
- 2 Follow the on-screen instructions to select and download updates.



Battery

How do I know when the battery is charged?

To determine the remaining battery charge, see Charging the Battery Pack (page 22).

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?

The 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 **Using Hibernate Mode (page 89)** 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 and then Control Panel.
- 2 Click Performance and Maintenance.
- 3 Click Power Options. The Power Options Properties window appears.
- 4 Select the Hibernate tab.
- 5 Click to check the box next to Enable hibernation.

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Built-in MOTION EYE Camera

Why does the viewer window show no images or poor-quality images?

- □ The built-in MOTION EYE camera cannot be shared by more than one software application. If another software application is using the camera, exit the application before using the built-in MOTION EYE camera.
- □ The video memory of the computer may have become insufficient for displaying images from the built-in MOTION EYE camera. Lowering the resolution or reducing the colors of the LCD might help.
- □ The viewer window may show some noises, for example horizontal lines, if you view a rapid-moving object. This is normal and does not indicate a malfunction.
- □ If the problem persists, restart the computer.

Why are captured images poor in quality?

- **D** The images captured under the fluorescent lamp may show reflection of the light.
- □ A dark portion in captured images may appear as a noise.
- □ If the front mirror plate over the lens is dirty, you cannot take a clear shot. Clean the lens. See On Using the Built-in MOTION EYE Camera (page 105).

Why do captured images contain dropped frames and audio interruptions?

- □ The effect settings on your software application may have caused dropped frames. See the help file on your software application for more information.
- □ There may be more software applications running than your computer can handle. Exit the applications that you are not currently using.
- **D** The power management function of your computer is activated. Check the CPU performance.



Why does Movie playback show dropped frames when my computer is running on the battery?

The battery is running out of power. Connect the computer to an AC power source.

Why do the images captured by the built-in MOTION EYE camera flicker?

This problem occurs when you use the camera under fluorescent lights due to the mismatch between lighting output frequency and shutter speed.

To reduce flicker noise, change the pointing direction of the camera or the screen brightness. In some software applications, you can set an appropriate value to Flickness, one of the camera properties, to eliminate flicker noise.

Why is the video input from the built-in MOTION EYE camera suspended for a few seconds?

The video input may be suspended for a few seconds if

- a shortcut key with the **Fn** key is used.
- □ the CPU load increases.

This is normal and does not indicate a malfunction.



Why can't I use the built-in MOTION EYE camera?

- □ The built-in MOTION EYE camera cannot be shared by more than one software application. If another software application is using the camera, exit the application before using the built-in MOTION EYE camera.
- □ If the problem persists, you must reinstall the driver software for the camera. Proceed as follows to reinstall the driver software.
 - 1 Click Start and then Control Panel.
 - 2 Click the **Performance and Maintenance** icon.
 - 3 Click the System icon.
 - 4 Click Device Manager on the Hardware tab.
 - 5 Double-click Imaging devices.
 - 6 Right-click Sony Visual Communication Camera VGP-VCC1 and click Update Driver.



Internet

Why doesn't my modem work?

- □ Make sure the telephone cable is securely plugged into the Modem port 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.)
- □ Make sure that the modem is the only device connected to your phone line.
- □ Check the following setting:
 - 1 Click Start and then Control Panel.
 - 2 Click Printers and Other Hardware.
 - 3 Click Phone and Modem Options.
 - 4 On the **Modems** tab, check that your modem is listed.
 - 5 On the **Dialing Rules** tab, check the location information is correct



Why is my modem connection slow?

The computer is equipped with a V.92/ 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.



Networking

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 the computer away from obstructions or closer to any access point you may be using.
- □ Make sure the **WIRELESS** or **WIRELESS LAN** switch is on and the WIRELESS LAN indicator is lit on the computer.
- □ Make sure power to the access point is on.
- □ Check the following setting:
 - 1 Click Start and then Control Panel.
 - 2 Click Network and Internet Connections.
 - 3 Click Network Connections.
 - 4 Right-click Wireless Network Connection.
 - 5 Click Properties.
 - 6 Click the Wireless Network tab.
 - 7 Make sure the access point is displayed in the Available networks.
- □ Make sure the encryption key is correct.



Why can't I access the Internet?

- Check the access point settings. See the instructions supplied with the access point.
- □ Make sure the computer and the access point are connected to one another.
- □ Move the computer away from obstructions or closer to any access point you may be using.
- □ Make sure the 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 the 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.

How do I avoid data transfer interruptions?

- □ When the 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.
- □ Change the access point channel. See your access point manual for more information.



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, see connectivity information contained in your access point instructions.

When I change the encryption key, the network connection stops. What should 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 re-enter the key on both computers so the key matches.



CDs and DVDs

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

The disc the computer is trying to read may be dirty or damaged. Follow these steps:

- 1 Restart the computer by clicking Start, Turn Off Computer, and Restart.
- 2 Eject the disc from the optical disc drive.
- 3 Examine the disc for dirt or damage. If the disc is dirty, see **On Handling Discs (page 106)** for instructions on how to clean it.

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

- Make sure the computer is on.
- D Press the drive eject button.
- □ If the drive eject button does not work, click **Start** and then **My Computer**. Right click the optical disc 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 drive eject button.
- □ Try restarting the computer.



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

- □ Make sure the disc was inserted into the optical disc 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 Manager** window.
 - 2 Remove the CD or DVD from the optical disc drive.
 - 3 Check the disc for dirt or damage. If you need to clean the disc, see **On Handling Discs (page 106)** for instructions.
- □ If you are playing a CD or DVD and cannot hear sound, follow these steps:
 - Double-click the Volume icon on the taskbar, and click to cancel the Master Volume Mute All and Wave Mute check boxes.
 - □ Check the volume setting in the audio mixer.
 - □ If you are using external speakers, check the volume settings on the speakers and the connections between the speakers and the computer.
 - □ Make sure the CD audio feature is enabled and the correct driver software is installed. Follow these steps:
 - 1 Click Start and then Control Panel.
 - 2 Click Performance and Maintenance.
 - 3 Click System. The System Properties window appears.
 - 4 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 appears on the listed device, you may need to enable the device or reinstall the drivers.



- 5 Double-click the optical disc drive device to open the submenu.
- 6 Double-click the listed drive, and select the **Properties** tab.
- 7 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**.
- 8 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 disc drive and damage the drive or cause it to malfunction.
- □ If a region code warning appears, the disc may be incompatible with the optical disc drive. Check the DVD package to make sure the region code is compatible with the optical disc 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.
- □ Make sure the computer is running on AC power supply and try the disc again.



What should I do if I cannot write to CD?

- Do not launch any software application or allow any to launch automatically, not even a screen saver.
- Do not use the keyboard.
- Do not use a CD-R/RW disc that has a label affixed to it. This could cause a write error or other damage.

What should I do if I cannot write to DVD?

This Q & A entry applies to selected models only. See the online **Specifications** to see whether your model is equipped with an optical disc drive capable of DVD writing.

- Are you using the correct DVD recordable media?
- Check which DVD recordable format is compatible with the computer's built-in DVD recorder (DVD-R / DVD+R / DVD+RW). Note the possibility that some brands of DVD recordable media do not work.
- The preinstalled software on the computer does not support copying DVD movies. Macrovision or a similar video protection technology prevents users from copying DVD movies. Copying a DVD movie would be a copyright infringement and therefore illegal.

Display

Why did the computer screen (LCD) go blank?

- The 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 Using the Power Saving Modes (page 86) 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 the computer is using battery power, make sure the battery is installed properly and is charged. See Using the Battery Pack (page 20) for more information.
- □ If the display mode is set to external display, use the Fn+F7 key combination. See Combinations and Functions with the Fn Key (page 27) for more information.

Why can't I view the entire DVD video display on a TV screen?

The display resolution may not be properly set. It is recommended that you adjust the display resolution to 1024 x 768 or smaller, depending on the size of the external display screen.

How do I adjust the image on the TV screen?

Use the controls on your external display to adjust the image. See the help guide that accompanied your display for more information.



How do I change the video resolution on the TV screen?

- □ The video may not appear on the entire TV screen if the computer resolution is set larger than 1024 x 768. Adjust the video resolution to 1024 x 768 or smaller.
- □ If you are using the AV Out jack, plug the audio-video (AV) cable into the computer before you start the computer.
- □ To change the video resolution, follow these instructions:
 - 1 Right-click the desktop, and select **Properties** from the shortcut menu.
 - 2 Select the **Settings** tab.
 - **3** Move the screen resolution slider to the left to reduce the size and to the right to increase the size of the video resolution.

How do I switch the computer screen from LCD to TV?

Press the **Fn+F7** keys to view the image on either the computer screen (LCD) or the TV. See **Combinations and Functions** with the **Fn Key (page 27)** for more information.

What should I do if the screen does not display a video?

- □ If the external display is selected for the output destination with the **Fn+F7** keys and the external display is disconnected, you cannot display a video on your screen.
- □ In such a case, stop video playback, press the **Fn+F7** keys to change the output destination to your screen, and then restart video playback.

What should I do if the screen is dark?

Press the **Fn+F6** keys to brighten the screen.



What should I do if the brightness of the screen changes?

The brightness of your screen when adjusted with the **Fn+F5/F6** keys is temporary and this adjustment is overridden by the setting on the **VAIO Power Management** tab when another power scheme is selected.

To save this preference for the brightness

To do the following procedure, you must have administrator rights on the computer.

- 1 Click Start and then Control Panel.
- 2 Click Performance and Maintenance.
- 3 Click Power Options.
- 4 On the **Power Schemes** tab, select the desired power scheme from the **Power schemes** list.
- 5 On the VAIO Power Management tab, select No change for LCD Brightness.
- 6 Click OK.

The preference for the brightness adjusted with the **Fn+F5/F6** keys is saved and your screen brightness remains unchanged regardless of operating conditions.

What should I do if the external display (or TV) does not display anything?

If you change the log-on user with the Fast User Switching function after the computer started, you will not be able to select a display by pressing the **Fn+F7** keys.



Printing

Why can't I print a document?

- □ Make sure the printer is on, and the printer cable is securely connected to the ports on the printer and computer.
- □ Make sure the printer is compatible with the Windows operating system installed on the computer.
- □ You may need to install the printer driver software before you use the printer. See the manual 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 the 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 the printer, such as data transfer, status monitoring, and remote panel.

When your printer is connected to the port replicator, check the port replicator to see if it is connected to an AC power source.



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.



Mouse

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

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

What should 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 the **U** key. When the **Turn off computer** window appears, press the **R** key.
 - □ 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 → key to select Shut Down. Press the Enter key, and then press the R key.
 - Press and hold the power button. When the computer turns off, wait 10 to 15 seconds then press the power button again to restart the computer.
- Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless mouse. These devices may cause interference, causing your mouse to stop working properly.
- Do not place metal furniture near the computer or wireless mouse, as this may create interference, causing your mouse to stop working properly.



Speakers

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 you are using battery power, make sure the battery is installed properly and is charged.
- □ If the speakers require external power, make sure the speakers are connected to a power source. See the manual that came with 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 installed 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.
- □ Check the volume controls in Windows.



Touch Pad

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

- □ Try restarting the computer. Follow these steps:
 - 1 Press the Windows key.
 - 2 Press the U key. The Turn off computer window opens.
 - 3 Press the **R** key 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 the Alt key to highlight the menu bar, and press the \rightarrow key to select Shut Down.
 - 3 Press the Enter key.
 - 4 Press the R key to restart the computer

If you still cannot restart the computer, press and hold the power button to turn off the computer.

- □ If the pointer does not move while playing a disc, press the **Ctrl+Alt+Delete** keys 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 Using the Touch Pad (page 29).



How do I change the left and right button assignments?

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

- 1 Click Start and then Control Panel.
- 2 Click Printers and Other Hardware.
- 3 Click Mouse.
- 4 Click the **Buttons** tab.
- 5 Select your preferences in the **Button Configuration** box, and then click **Apply** to install your settings. You may need to use the **Tab** key and the **↑** and **↓** keys to make your selections.
- 6 Click **OK** to close the window.



Keyboard

What should I do if the keyboard configuration is wrong?

- □ The language layout of the computer's keyboard is specified on the sticker on the box. If you choose a different regional keyboard when you complete the Windows setup, the key configuration will be mismatched.
- □ To change the keyboard configuration, follow these steps:
 - 1 Click Start and then Control Panel
 - 2 Click Date, Time, Language and Regional Options, and click Regional and Language Options.
 - 3 Change the settings as desired.

What should I do if I cannot enter certain characters with the keyboard?

If you cannot enter **U**, **I**, **O**, **P**, **J**, **K**, **L**, **M**, and so on, the **Num Lk** key may be activated. Check that the **Num lock** indicator is off. If the **Num lock** indicator is on, press the **Num Lk** key to turn it off before entering these characters.

Floppy Disks

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:

- 1 Close all programs that were accessing the floppy disk drive.
- 2 Wait for the LED indicator on the floppy disk drive to turn off.
- 3 Push the eject button to remove the disk, and disconnect the USB floppy disk drive from the computer.
- 4 Reconnect the floppy disk drive by inserting the USB connector (with the USB icon facing upward) into the USB port.
- 5 Restart the computer by clicking Start, 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.
- □ 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.



PC Cards

Why doesn't my PC Card work?

- □ Make sure the PC Card is inserted properly. See Inserting a PC Card (page 39) for more information.
- □ Make sure the PC Card is compatible with the Microsoft Windows operating system installed on the computer.
- 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 the computer.

Why can't I insert my PC Card?

- A Make sure you are inserting the card correctly. See **Inserting a PC Card (page 39)** for more information.
- □ You may not be able to use some PC Cards or some functions of the PC Card with the computer. Check the manual that accompanied your PC Card for more information on its use.



Audio/Video

Why can't I use the DV camera recorder?

You may not be able to use the DV camera 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 **Connecting an i.LINK Device (page 77)** for more information.

i.LINK is a trademark of Sony used only to designate that a product contains an IEEE1394 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. See the manual 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.

Memory Stick Media

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 the computer's hard disk to save data or images.
- 2 Format the Memory Stick media using the **Memory Stick Formatter** software preinstalled on the computer. For instructions about formatting a Memory Stick media, see the help file on the **Memory Stick Formatter** software.

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

- Copyright protected music cannot be checked out to any Memory Stick media other than MagicGate 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.



Peripherals

What should I do if I cannot connect a USB device?

- If applicable, check the USB device is switched on and using its own power supply. For example, if you are using a digital camera, check the battery is charged. If you are using a printer, check the power cable is connected properly to the AC outlet.
- Try using a different USB port on the computer. The driver could be installed to the specific port you used the first time you connected the device.
- Check the manual provided with the USB device. You may need to install software before you connect the device.
- □ Try connecting a simple, low-powered device such as a mouse to test that the port is working at all.
- □ USB hubs may prevent a device from working because of the distribution of power. We recommend you connect the device directly to the computer without a hub.



Support Options

The section contains information on where to go for answers to questions about your computer and the preinstalled software.

Sony Support Information

See the following sources for answers in the sequence listed below.

1 VAIO Computer Documentation

This on-screen **User Guide** (this manual) and the printed **Welcome mat** provide detailed information on how to maximize your computer's capabilities and solve common problems.

2 Program Guides and Help Files

The preinstalled programs on your computer may be supplied 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: <u>http://support.microsoft.com/directory/</u>.

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 the Sony online support Web site at http://www.sony.com/pcsupport for customers in USA, at http://www.sony.ca/support for customers in Latin American countries or areas.

5 VAIO Update

When your computer is connected to the Internet, **VAIO Update** automatically notifies you when critical software and security information is posted on the support web site. Click the **VAIO Update** notice to open the VAIO Support web site and view the information.

For users in Latin American countries or areas

Customer Information Center

If you do not find the information you are looking for at our site, you may call Sony directly. In order to receive the fastest and most efficient services, please have the following information readily available:

1 Your VAIO computer model

You can find it at the lower right corner of the display on the laptops, and in the same place on the front panel of the CPU on the desktops.

2 Your computer's serial number

You can find it on the back of the laptops and on the back of the CPU on the desktops; the serial number is the last 7 digits of the number below the barcode.

- 3 The operating system on your computer
- 4 The hardware component or the software program that is causing you the problem
- 5 A brief description of the problem

~ 10

In order to contact a Sony technical support representative, please call the following numbers:

- □ In Argentina:
- (011) 6770-SONY (7669)
- In Mexico:
- In Mexico City: 5002-9819
- In the Mexican Republic: 01-800-759-7669
- In Colombia:
- 01-800-550-7000
- In Peru:
- 0-801-1-7000 or 595-0200
- □ In Chile:
- Sony answers: 800-261-800
- From cellular phones: 02-754-6333
- In Venezuela:
- 0-800-1-SONY-00 (0-800-1-7669-00)
- In Panama:
- 800-2050



Program Support Information

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

Adobe[®] Photoshop[®] Elements, Photoshop[®] Album, Premiere[®], Reader®

Adobe Systems Inc.

For users in USA and Canada
 Web Site <u>http://www.adobe.com/support</u>
 Telephone 800-685-3652

America Online[®] (Broadband or Dial-Up)

America Online, Inc.

□ For users in USA and Canada Web Site <u>http://www.aol.com</u>

AOL[®] Instant Messenger™

America Online, Inc.

For users in USA and Canada Web Site <u>http://www.aim.com</u>



Click to DVD[™] software

Sony Electronics Inc.

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

- For users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada
 Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)



DVgate Plus[™] software

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 users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)

Google Toolbar[™]

Google, Inc.

For users in USA and Canada
 Web Site <u>http://toolbar.google.com/help.html</u>



Intel[®] PROSet

Intel Corporation

For users in USA and Canada Web Site <u>http://www.intel.com/network/connectivity/products/wireless/proset/proset_software.htm</u>

Microsoft[®] Office Basic Edition, Office Professional Edition, Office Small Business Edition, 60-Day Trial Version of Microsoft[®] Office 2003

The Microsoft Office 2003 60-Day Trial software included with this computer system is intended for evaluation purposes only. The software has been installed and you must activate the software before you can use it. Product activation procedures will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-user options and operations.

Microsoft Corp.

For users in USA and Canada Web Site <u>http://support.microsoft.com</u>

Microsoft® Internet Explorer, Movie Maker, Media Player, Works

Microsoft Corp.

For users in USA and Canada
 Web Site <u>http://support.microsoft.com</u>



MoodLogic

MoodLogic, Inc.

For users in USA and Canada
 Web Site <u>http://www.moodlogic.com/support</u>
 E-mail help@moodlogic.com

Netscape[®] Internet Service

America Online, Inc.

For users in USA and Canada Web Site <u>http://isp.netscape.com/help</u> Telephone 866-541-8233

Norton Internet Security[™]

Symantec Corporation

For users in USA and Canada Web Site <u>http://www.symantec.com/techsupp</u>

Quicken[®] New User Edition

Intuit Inc.

For users in USA and Canada Web Site <u>http://www.intuit.com/support/quicken/</u>



ROXIO DigitalMedia[®]

Sonic Solutions

For users in USA and Canada Web Site <u>http://support.sonic.com/</u>

SonicStage[®] software

Sony Electronics Inc.

The SonicStage jukebox software program gives you all the tools you need to manage music on your computer. SonicStage software sports high-quality digital audio storage, a sleek player skin design, and audio CD burning capability.

- For users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada
 Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)



SonicStage[®] Mastering Studio software

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 users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)

SpySubtract[®]

InterMute, Inc.

For users in USA and Canada Web Site <u>http://www.intermute.com/support.html</u>



VAIO[®] Action Setup

Sony Electronics Inc.

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

- For users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada
 Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)



VAIO[®] Central

Sony Electronics Inc.

VAIO Central provides a central location that gathers resources to configure your VAIO computer and view your computer's configuration and specifications.

- For users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada
 Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)



VAIO Media[™] software

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 VAIO computers as "media servers," which store your multimedia files and make them available to other compatible VAIO computers on your wired or wireless network.

- For users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada
 Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)



VAIO[®] Support Central

Sony Electronics Inc.

VAIO Support Central provides an easy to navigate solution to common support needs, such as VAIO Documentation,

product specifications, serial number, model name, service tag information, survey, registration, etc.

- For users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada
 Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)



VAIO[®] Update

Sony Electronics Inc.

The VAIO Update utility helps you keep your VAIO[®] computer up to date by regularly checking the Sony Online Support Web site for important software updates and information for your specific VAIO computer model.

- For users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada
 Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)



VAIO[®] Wireless Utility

Sony Electronics Inc.

The VAIO Wireless Utility walks you through setting up your wireless network connection and offers useful diagnostic tests to help keep your wireless network running smoothly.

- For users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada
 Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)



VAIO Zone[™] software

Sony Electronics Inc.

VAIO Zone software provides an effortless way to browse and enjoy pictures, music, and video files on your computer,

all through an elegant, next-generation interface. You can even enjoy media content stored on other VAIO[®] computers on your network. On VAIO computer models with a recordable DVD drive, VAIO Zone enables you to record video and slide shows of pictures to DVD. On VAIO computer models with a built-in TV tuner, VAIO Zone includes a complete personal video recorder, enabling you to record TV programs and burn them to DVD.

- For users in USA
 Web Site <u>http://www.sony.com/pcsupport</u>
 Telephone 888-4-SONY-PC (888-476-6972)
- For users in Canada Web Site <u>http://www.sony.ca/support</u>
- For users in Latin American countries or areas Web Site <u>http://www.sony.com/lapcsupport</u> Telephone 888-4-SONY-PC (888-476-6972)

WinDVD[®] software for VAIO[®] computers

InterVideo, Inc.

□ For users in USA and Canada Web site <u>http://www.intervideo.com/jsp/Support.jsp</u> Telephone 510-651-0888

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com