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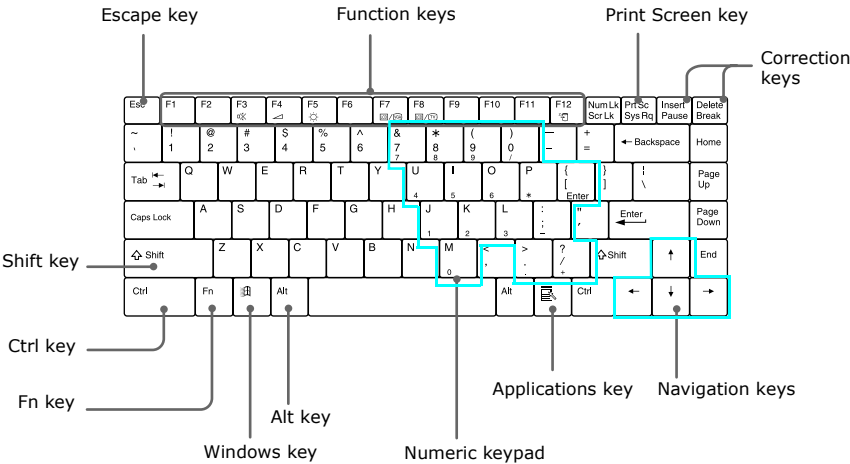
Using Your VAIO® Notebook

This section describes how to use your keyboard, touchpad, and optical drive. You will also find information on how to connect your notebook to another computer or network.



Using the Keyboard

Your notebook keyboard is very similar to that of a typewriter, but the keyboard has additional keys that perform specific computer-related tasks.











Keyboard








Key	Description
Numeric keypad	Contains the keys found on a typical calculator. Use the numeric keypad area to type numbers or to perform mathematical calculations such as addition and subtraction. Note that you must press the Num Lock key to activate the numeric keypad. (When you do so, the Num Lock light will be on.)
Navigation keys	Several keys are devoted to moving the cursor on the screen.
Correction keys	The Insert, Back Space, and Delete keys enable you to make corrections in your documents.
Function keys	The twelve function keys along the top of the keyboard are used to perform designated tasks. For example, in many applications, F1 is the Help key. The task associated with each function key may vary from one application to the next.
Escape key	The Esc (Escape) key is used to cancel commands.
Print Screen key	The Print Screen key takes an electronic snapshot of the screen and places it in the Windows Clipboard. You can then paste the screen shot into a document and print it.

<i>Key</i>	<i>Description</i>
Operator keys (Shift, Ctrl, Alt keys)	Several keys are always used with at least one other key: Ctrl, Alt, and Shift. When held down with another key, the Ctrl (Control) and Alt (Alternate) keys offer another way to give commands. For example, in many applications, instead of choosing the Save command from a menu, you can hold down Ctrl and press S (referred to as Ctrl+S). The Shift key operates the same way as on a typewriter; it is used to produce capital letters or special symbols such as @ and \$.
Windows key 	The key with the Windows logo displays the Windows Start menu; it is the equivalent of clicking the Start button on the taskbar. See “Combinations and Functions with the Windows Key” for more information.
Fn key	The Fn key is used in combination with other keys to issue commands. See “Combinations and Functions with the Fn Key” for more information.
Applications key 	The Applications key displays a shortcut menu of context-sensitive choices. Pressing this key is the equivalent of clicking the right mouse button.

Combinations and Functions with the Windows Key

<i>Combination</i>	<i>Function</i>
 + F1	Displays Windows Help.
 + Tab	Switches the selected button on the taskbar.
 + D	Displays the desktop.
 + E	Displays Windows Explorer.
 + F	Displays the Windows Find: All Files window to find a file or folder. This is the equivalent of selecting Find and then Files or Folders from the Start menu.
 + Ctrl + F	Displays the Windows Find: Computer window where you can locate other computers. This is the equivalent of selecting Find and then Computer from the Start menu.
 + M	Minimizes all displayed windows.
Shift +  + M	Returns all minimized windows to their previous size.
 + R	Displays the Run window. This is the equivalent of selecting Run from the Start menu.
Fn +  + Insert	Displays the Properties window. This is the equivalent of double-clicking the System icon in the Control Panel.















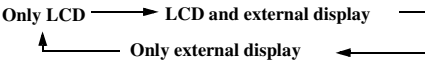


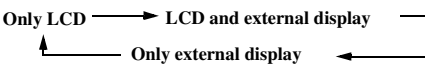

Indicators

<i>Indicator</i>	<i>Function</i>
Power 	Light is green when the power to the notebook is turned on, flashes amber in Standby mode, and turns off when the notebook is in Hibernate mode or powered off.
Battery 1 	Indicates the status of the battery inserted in the battery bay on the right side of the notebook.
Battery 2  2	Indicates the status of the battery inserted in the multipurpose drive bay on the left side of the notebook.
Memory Stick 	Indicates the Memory Stick slot is in use.
Hard disk 	This indicator will light when data is being read from or written to the hard drive. Do not enter Standby mode or turn off the notebook when this indicator is on.

Indicator Lights

<i>Light</i>	<i>On</i>	<i>Off</i>
Num Lock	The number keys in the numeric keypad are active.	The alphanumeric character keys in the keypad area are active.
Caps Lock	The letters appear in uppercase as you type. The Shift key lowers the case of typed letters when Caps Lock is on.	Letters appear in lower case as you type (unless you hold down the Shift key).
Scroll Lock	The screen scrolls differently. (Exactly how it scrolls depends on the specific application. It has no effect in many applications.)	Information moves across the display normally.

Combinations and Functions with the Fn Key

Combinations/ Feature	Function
Fn+  (F3) Mute On/Off	Toggles the built-in speaker off and on.
Fn+  (F4) Speaker volume	Adjusts the built-in speaker volume. To increase volume, press Fn+F4, then  or  . To decrease volume, press Fn+F4, then  or  .
Fn+  (F5) Brightness control	Adjusts the brightness of the LCD. To increase light intensity, press Fn+F5 and then  or  . To decrease light intensity, press Fn+F5 and then  or  .
Fn+  /  (F7) Switch to the external monitor/ LCD	<p>Toggles through the LCD, external display (connected to the ) and both LCD and external display.</p>  <p>Connect the cable before you turn on the notebook, otherwise Fn + F7 will not work.</p>
Fn+  only/  (F8) Control AV out	<p>Toggles between LCD-only and dual LCD/TV display modes.</p>  <p>Connect the cable before you turn on the notebook, otherwise Fn + F8 will not work.</p>
Fn+  (F12) Hibernate	Provides for the lowest level of power consumption. When you execute this command, the state of the system and state of 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 button to turn on power.
Fn + Esc Standby	Puts the system into Standby mode, a power management state. To return the system to the active state, press any key or press the power button on your notebook.

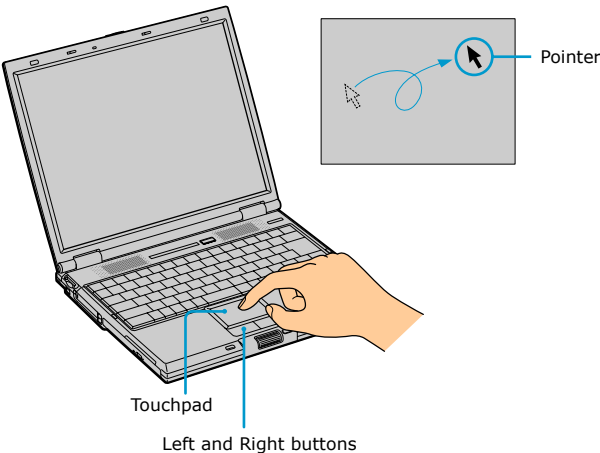


Some functions are not available until Windows launches.


Using the Touchpad

The keyboard contains a cursor-pointing device called a touchpad. You can point to, select, drag, and scroll objects on the screen using the built-in touchpad.



Touchpad



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

 See Mouse Properties for information on touchpad features, such as clicking both buttons simultaneously, adjusting touchpad speed, and Easy Launcher functions. To access Mouse Properties, click Start in the Windows® taskbar, point to Settings, point to Control Panel, and then click the Mouse icon in the Control Panel.

VAIO Action Setup

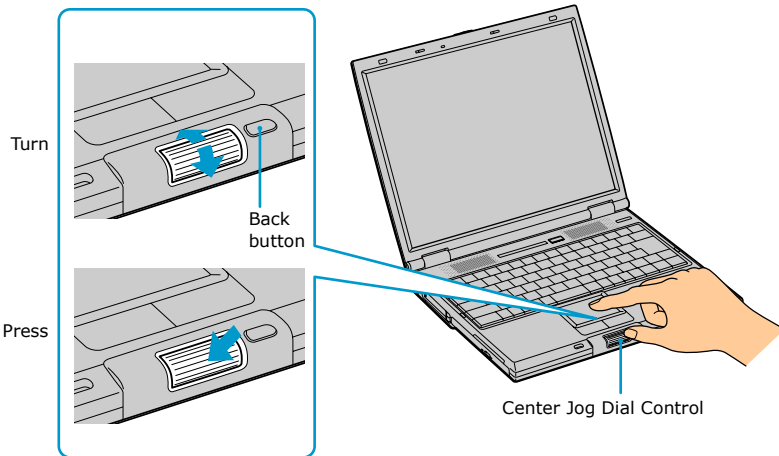
VAIO Action Setup manages the settings for your notebook's center Jog Dial™ control, **Memory Stick®** media, and i.LINK®* interface. An overview of some of the functions controlled by VAIO Action Setup is provided below. For more information on changing the settings using VAIO Action Setup, right-click the Jog Dial Utility icon  or  in the task tray and click Help Topics.

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

Center Jog Dial™ Control



Your notebook is equipped with a center Jog Dial control located below the left and right buttons. The center Jog Dial control enables you to open an application, folder, or document from a predefined list by rotating and pressing the center Jog Dial control. In addition, when you press the center Jog Dial control, you can turn on your notebook automatically and start the selected application or document.

Center Jog Dial Control



The center Jog Dial control window always appears in the display. It is either in the launcher mode or in the guide mode.

Using the Center Jog Dial™ Control

This section explains how to use the center Jog Dial control. For information on how to change the settings of the center Jog Dial control, right-click the Jog Dial Utility icon  or  in the task tray and click Help Topics.

Launcher Mode

The center Jog Dial control window is in launcher mode until a software application is launched or the Jog Dial control window becomes active. When you select an item in the Jog Dial window and it is displayed between orange bars, you can press the center Jog Dial control to view a submenu of that item.

Using Launcher Mode

To use the center Jog Dial control, click the Jog Dial control window or the Jog Dial Utility icon in the task tray. Alternatively, you can press the Ctrl key and the center Jog Dial control while the Jog Dial window is active to switch to launcher mode.

Jog Dial Launcher



To select a desired item, proceed as follows:

- 1 Rotate the center Jog Dial control to select the item you want, then press the center Jog Dial control. The Jog Dial Launcher window switches to guide mode and shows the function of the center Jog Dial control.

Jog Dial Guide



- 2 Rotate or press the center Jog Dial control to use the desired function.
- 3 To select another item, repeat steps 1 through 3 above.

Guide Mode

The Jog Dial control window is in the guide mode when software is in use and the software window is active. Depending on the software you are using, you can select items from the displayed list using the center Jog Dial control. You can switch between guide mode and launcher mode by pressing the Ctrl key and the center Jog Dial control.

Using Guide Mode

The Jog Dial control window displays the function of the center Jog Dial control.

Center Jog Dial Back Button

The center Jog Dial control includes a back button located to the right of the control. Pressing this button brings you back to the previous screen.

Using the Center Jog Dial Control with Sony Software

If Sony software that supports the center Jog Dial control is active, you can use the functions of the center Jog Dial control that are allocated to that software. For more information on functions allocated to software, see the software application's online help.

Using the Center Jog Dial Control with Other Software

If the software you are using supports the center Jog Dial control, you can still use the center Jog Dial control to scroll the window or adjust the window size.

Using a Dialog Box

When a window such as Screen Properties is active, the Dialog box is displayed in the Jog Dial window. You can select an item in the window by rotating the center Jog Dial control. Pressing the center Jog Dial control is the equivalent of pressing Enter or Select.


Jog Dial Guide Dialog Box



Using the Removable Hard Disk Drive

Your notebook is equipped with a removable hard disk drive, located on the right side next to the battery bay.

The hard disk drive is preformatted and ready to let you take full advantage of all Sony VAIO® features. You can upgrade to a higher-capacity hard disk drive as your computing needs warrant.

 Sony does not guarantee interoperability with removable hard disk drives other than the one provided with your VAIO® Notebook.

Removing the hard disk drive

- 1 Shut down your notebook and locate the latch for the hard disk drive.
- 2 Loosen and remove the screw on the bottom of the notebook that secures the hard disk drive. Use an appropriate screwdriver.
- 3 Slide the hard disk drive out of the drive bay.

Installing the hard disk drive

- 1 Slide the hard disk drive into the drive bay until it clicks into place.
- 2 Replace and tighten the screw that secures the hard disk drive.

Using the Optical Disc Drive

Your notebook comes with a removable optical disc drive located in the multipurpose bay. Depending on the system you purchased, that optical disc drive is either a CD-RW/DVD Combo Drive or a DVD-ROM.



The optical disc drive is removable when the power is on, but do not remove the drive when your notebook is in a power saving mode. Any attempt to do so may result in malfunction and/or data loss.

To insert a disc

- 1 Turn on the notebook.

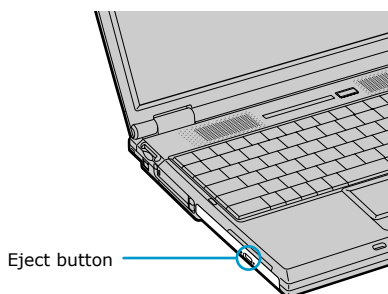


When the notebook is in Standby or Hibernate mode, you cannot insert a disc. See “Controlling Power Management” for more information on Standby and Hibernate modes.

- 2 Press the Eject button to open the optical drive.

The tray slides out.

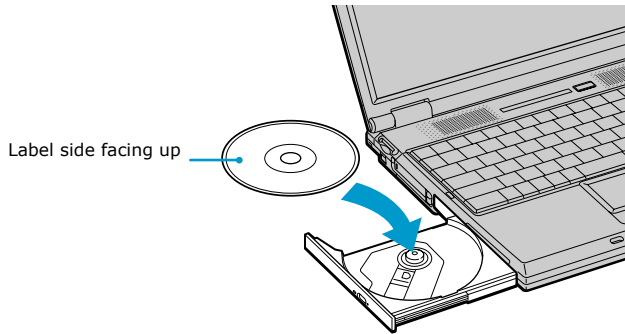
Ejecting the tray



Avoid using adhesive labels to identify your discs. Adhesive labels may come off while the disc is in use in your optical drive(s), and may cause damage to the unit.

- 3 Place an optical disc on the tray with the label side facing up. For DVDs, which can be played on both sides, the side of the disc facing up is the side that plays.
- 4 Push the disc onto the hub until the disc clicks securely into place.

Inserting an optical disc



- 5 Close the tray by pushing it gently.

To eject a disc

When you finish using a disc, wait until the LED indicator turns off, then press the Eject button to remove the disc.

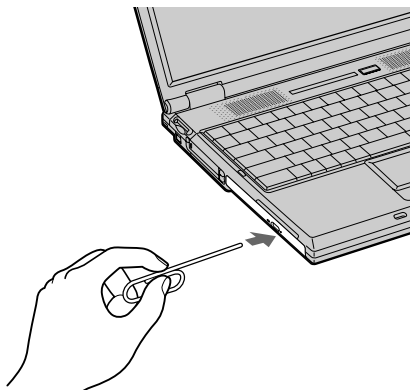
When the notebook is in a power saving mode, you cannot remove an optical disc. See “Controlling Power Management” for more information about power saving modes.

If the optical disc does not slide out when you press the Eject button, turn off the notebook and insert a thin, pointed object (such as a paper clip) into the manual eject hole.



Make sure to seat the disc firmly over the hub fingers. If you do not seat the disc firmly, you could damage your optical drive and you may not be able to open the tray.

Manual eject hole



To play a DVD


To play a DVD, you may use the optical disc drive and the preinstalled WinDVD[®] software. For more information on WinDVD, see the help manual that accompanied your software.



Before you use the optical disc drive, close any open applications.

Systems equipped with a CD-RW/DVD Combo Drive can read DVD-R media, but systems equipped with a DVD-ROM drive cannot read DVD-R media. When you are ready to play a DVD, read the suggestions below to maximize your video viewing experience.

- ☐ When playing a DVD on battery power, set the power management profile to DVD. You can also set the power management profile to Automatic Profile Selection if the display is not clear using other profiles.

 Automatic Profile Selection sets the power management profile to DVD whenever a DVD is inserted. See “Controlling Power Management” for more information.

If you connect your notebook to a TV display, you may need to adjust the display resolution. Read the suggestions below to set the display resolution to the proper dimensions. Also see “Selecting the Display Mode” for more information.

- If the notebook is set to the default display setting, part of the video screen will not appear. To view the entire screen, adjust the display resolution to 640 x 480.



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

You cannot use the Fn + F8 function to switch between LCD and TV once a DVD is inserted into the optical drive.

Do not switch between LCD and the external display while the DVD is playing. This may cause a malfunction, and you may need to restart the DVD software.

Do not switch the power saving modes while you are playing the DVD.

Change the setting to disable the screen saver and the virus checker.

Do not use memory-resident utility software to speed up disc access. This may cause the notebook to malfunction.

To play an audio CD

To play an audio CD, make sure the audio function is turned on. To do this, complete the following procedure.

 The optical disc drive must be installed in the multipurpose bay before you begin.

- 1 Click Start in the Windows taskbar, select Settings, and click System. The System Properties window appears.
- 2 Select the Hardware tab and click Device Manager in the Device Manager box. A window appears listing your notebook hardware devices.
- 3 Double-click DVD/CD-ROM drives. From the drop-down list, double-click the drive name. A properties window appears.

- 4 Check the “Enable digital CD audio for this CD-ROM device” box if it is not already checked and click OK.


Notes on CD and DVD discs

- ❑ Do not drop or bend the disc.
- ❑ Do not touch the surface of the disc. Fingerprints and dust on the surface of a disc may cause reading errors. Proper care of the disc is essential to maintain its reliability. Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray, as they 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.

To write data to a CD-RW or CD-R disc *

You can use Easy CD Creator[™] software to write data to a CD-R or CD-RW disc. Remember Easy CD Creator[™] works if the CD-R or CD-RW disc is formatted; otherwise, your notebook will not recognize it. To create a CD-R disc that is readable in a CD-ROM drive, make sure you finish the writing process before ejecting it. For more information, see the instructions included with this software.

* For notebook models equipped with a CD-RW/DVD Combo Drive.

 For optimal writing speed, deactivate the screen saver and exit anti-virus software before writing data to a disc.

For best results, use CD-Rs that are compatible with 8x speed, as Easy CD Creator™ is preset to that speed. Your notebook does not support 1x writing speed. If you use CD-RW or CD-R writing software other than Easy CD Creator™, use PowerPanel to select the DVD Profile. Memory-resident disc utilities may cause unstable operation or data loss. Deactivate these utilities before writing data to a disc.

When using Easy CD Creator™ Standard, be sure to close and exit all other applications.

If your notebook computer has preinstalled Microsoft® Office applications, such as Excel, Word, and Outlook, turn off the FindFast application.

Do not put your notebook into power saving mode while using Easy CD Creator™ to write data, or while using Easy CD Creator™.



Do not touch the surface of the disc. Fingerprints and dust on the surface of a disc may cause writing errors.

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


Memory-resident disc utilities, such as screen saver and virus checker, may cause unstable operation or data loss. Deactivate these utilities before writing data to a disc.

Always use the AC adapter as the power source for your notebook if you are writing data to a CD-RW or CD-R disc. Using battery power may result in data transfer failure.

Avoid using adhesive labels to identify your discs. Adhesive labels may come off while the disc is in use in your optical drive(s), and may cause damage to the unit.

Using PC Cards

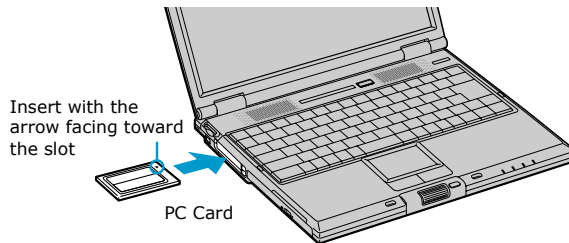
Your notebook includes two PC Card slots. PC Cards enable you to connect portable external devices such as another hard disk drive, or a PC Network Interface Card (NIC) to connect to a network.


-  The PC Card slots can accommodate two Type I/II PC Cards, or one Type III PC Card. These slots are compatible with CardBus. Use the lower slot for Type III PC Cards. You do not need to shut down your notebook before inserting or removing a PC Card.

To insert a PC Card

- 1 Insert the PC Card into the PC Card slot. Make sure the front label of the PC Card is facing up.

Inserting a PC Card




- 2 Push the the PC Card slot gently into the connector. The PC Card is automatically detected by your system. The  Unplug or Eject Hardware icon appears in the taskbar.



Do not force a PC Card into the slot as this may damage the connector pins.
Do not carry your notebook while touching the head of a PC Card (such as a wireless LAN card), as pressure or shock may damage the connector pins.

To remove a PC Card

The following procedure describes how to remove the PC Card while the notebook is on. If you want to remove the PC Card while the notebook is off, skip to step number 6 (below).

- 1 Double-click  in the taskbar. The “Unplug or Eject Hardware” dialog box appears.
- 2 Select the hardware device you wish to remove.
- 3 Click Stop. In the “Stop a Hardware device” dialog box, confirm that the device can be safely removed from the system.
- 4 Click OK. The message, “PC Card can now be safely removed from the system” appears.
- 5 Click OK again and click Close.
- 6 Push the Release button. The Release button pops out.
- 7 Push the Release button a second time. The PC Card pops out. Gently grasp the card and pull it out of the slot.

Notes on using PC Cards

- ❑ For some PC Cards, if you alternate between normal power operation and the Standby or Hibernate power management modes while the card is inserted, you may find that a device connected to your system is not recognized. Reboot your system to correct the problem.
- ❑ Some PC Cards may require that you disable idle devices when using the PC Card. You can use Sony Notebook Setup to disable devices. See “Displaying the Sony Notebook Setup Screen” for more information.
- ❑ Be sure to use the most recent software driver provided by the PC Card manufacturer.
- ❑ If an exclamation mark (!) appears on the Device Manager tab in the System Properties dialog box, remove the software driver and then reinstall it.
- ❑ You may not be able to use some PC Cards or some functions of the PC Card with this notebook. If you have difficulty inserting a card, check that you are orienting the card correctly. See the manual that came with your PC Card for more information on its use.

Using a Second Battery Pack

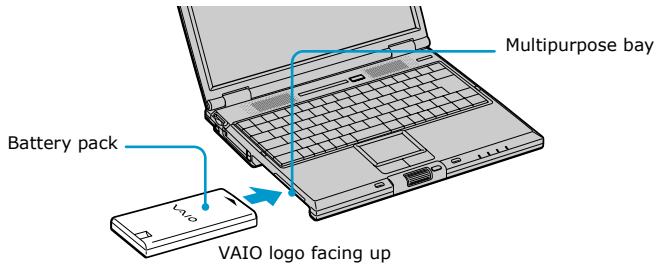
You can purchase a second rechargeable battery pack. With two battery packs, you can extend the time that you use your notebook with battery power. When using two battery packs, the battery pack you insert first charges first. The battery pack you insert second charges when the first battery pack is 85 percent full. You can monitor which battery pack is charging by observing the battery indicators.

To insert a second battery pack

- 1 If another device is in the multipurpose bay, remove that device.
- 2 Insert the battery pack into the multipurpose bay.

If the battery is being used, the battery 2 indicator turns on.

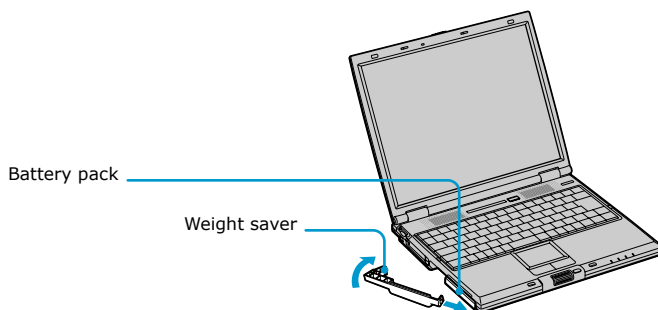
Second battery in multipurpose bay



- 3 Attach the weight saver to the notebook to stabilize the battery pack. See also “Using the Weight Saver” for more information.

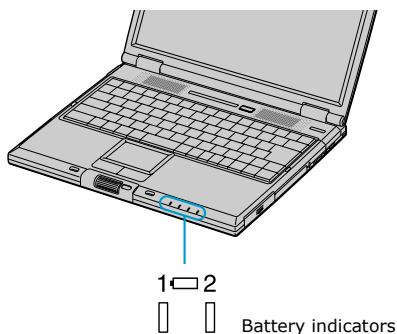
To charge the second battery pack


Using weight saver for second battery cover



Keep the battery pack in the notebook while it is connected to AC power. The battery indicator flashes while the battery is charging. See also “To charge the battery pack” in the printed Quick Start for more information.

Charging the second battery



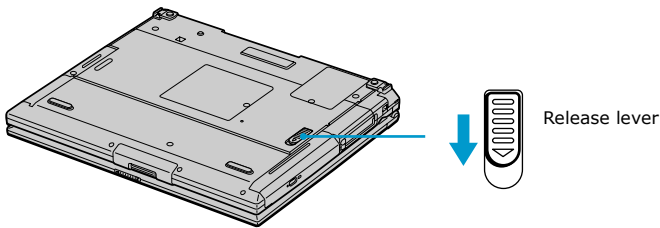
 To determine the amount of time the battery lasts, see “Displaying Battery Information” for more information.

To remove the second battery pack

If you attach two battery packs, you can remove either of them without shutting down the notebook. When removing one battery pack, make sure that the other battery pack's indicator is on. If the indicator of the battery pack you are removing is on, right-click the battery icon on the task tray and click the "Switch discharge battery" option.

- 1 To remove the battery pack, first slide the multipurpose bay Release lever in the direction of the arrow to unlock the weight saver.

Multipurpose bay Release lever



- 2 Remove the weight saver, and then pull out the battery pack.
- 3 Reinsert the weight saver. See "Using the Weight Saver" for more information.

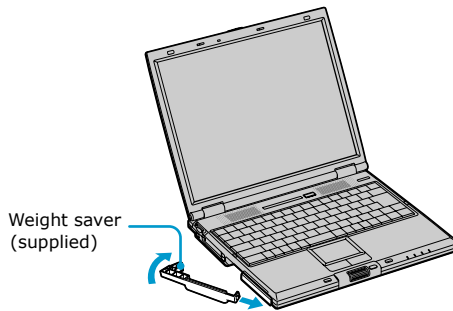
Using the Weight Saver

The weight saver protects the multipurpose bay when it is empty, and secures the secondary battery when it is installed in the multipurpose bay.

To attach the weight saver

- 1 If another device, such as a battery pack, is in the multipurpose bay, remove that device. See “To remove the second battery pack” for more information.
- 2 Slide the weight saver in the direction of the arrow until it clicks into place.

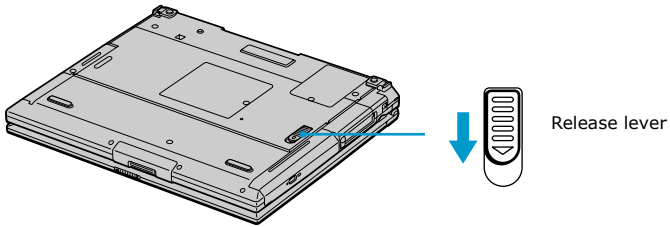
Inserting the weight saver



To remove the weight saver

- 1 To remove the weight saver, first slide the multipurpose bay Release lever in the direction of the arrow.

Multipurpose bay Release lever





- 2 Remove the weight saver.

Using Memory Stick® Media

This compact, portable, and versatile recording medium has a data capacity exceeding that of a floppy disk. The medium is specially designed for exchanging and sharing digital data with compatible products. Because it is removable, the media can be used for external data storage.

Types of Memory Stick Media

The following two types of Memory Stick media can be used with your notebook:

- ❑ MagicGate™  Memory Stick media (hereafter called MG Memory Stick media), which is provided with copyright protection
- ❑ Memory Stick  Memory Stick media, which does not have the same copyright protection as MagicGate Memory Stick media

For music, which requires copyright protection, you can only use MG Memory Stick media with your notebook. You can also use MagicGate media-compatible devices to record and playback music when they are connected to your notebook.

You can store mixed data on the Memory Stick media. For example, you can copy an ordinary file on a MG Memory Stick media that already contains music.

What is MagicGate Memory Stick Media?

MagicGate Memory Stick media provides copyright protection that consists of authentication and encryption technology. Authentication technology ensures that protected content is only transferred between compliant devices and media. Protected content is recorded and transferred in an encrypted format to prevent unauthorized duplication or playback.

 Ensure that the MG Memory Stick media has the MG mark .

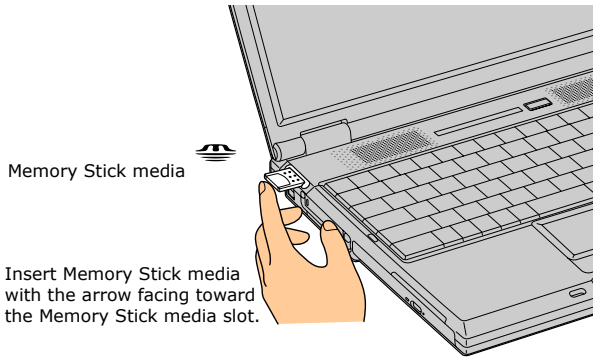
To Insert Memory Stick Media


- 1 Insert the Memory Stick media with the arrow facing up and toward the Memory Stick media slot.

 Inserting the media in the wrong direction may damage the connector pins.

- 2 Carefully slide the Memory Stick media into the slot until it clicks in place.

Inserting Memory Stick media




 At the default setting, the Visual Flow application starts automatically when you insert a Memory Stick media. You can change this setting in VAIO Action Setup.

To View the Contents of Memory Stick Media

Click the Removable Disk (S:) icon under My Computer to see the contents of the Memory Stick media.

To Remove Memory Stick Media

- 1 Check that the access light is off.
- 2 Push the Memory Stick media in toward the notebook.
- 3 When the Memory Stick media ejects, pull it out.

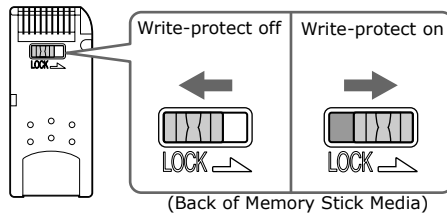
 Be careful when removing the Memory Stick media, as it may eject completely from the slot.

Write-protecting Memory Stick Media

Memory Stick media is designed with a write-protect tab to protect valuable data from accidental erasure or overwriting. Move the tab to the right or left to set or release write-protection.

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

Using the Write-protect tab



Formatting Memory Stick Media

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




Reformatting erases all current data that is stored on Memory Stick media. Before you reformat, confirm that the media does not contain files you want to keep.

- 1 Insert the Memory Stick media into the notebook. See “To Insert Memory Stick Media” for more information on inserting Memory Stick media.
- 2 Click the Start button, point to Programs, click Memory Stick Utility, and then click Memory Stick Formatter.
- 3 Click Start Formatter. Memory Stick Formatter begins.



Do not try to format the Memory Stick using Windows.

When Using Memory Stick Media

 When the erasure prevention switch of the Memory Stick media is set to LOCK, data cannot be recorded or erased.

Before using Memory Stick media, back up important data.

Wait a minimum of 10 seconds after the Memory Stick media finishes reading or writing data before removing the media.

If the media is removed prematurely, a blue screen with an error message appears, prompting you to continue or exit. Reinsert the media into the slot and press Enter to continue. This enables the media to finish reading or writing data.

You can enjoy video clips that you have recorded with Memory Stick media-compatible video camera recorders.

The media slot can accommodate one Memory Stick media at a time.

You may copy images from a digital video camera using Memory Stick media.

Only MagicGate™ Memory Stick media can be used with copyright protected data such as music.

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

Recorded music is limited to private use only. Using recorded music for any other purpose 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.

Formatting Memory Stick media erases all data (including music data) previously saved to it. Before you format Memory Stick media, confirm that the media does not contain files you want to keep.



Do not use the media in locations that are subject to static electricity or electrical noise.

Do not touch the media connector with your finger or metallic objects.

Do not attach labels other than the supplied label to a media.

Do not bend, drop, or apply strong shock to the media.

Do not disassemble or modify the media.

Do not allow the media to get wet.

Do not use or store the media in a location that is subject to:

Extremely high temperatures, such as in a car parked in the sun


Direct sunlight

High humidity or places with corrosive substances

To prolong the life of the media, use the supplied storage case. See the instructions that come with your media for more information on its use.

Power Saving Modes

When you use a battery as the source of power for your notebook, 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 notebook has two distinct power saving modes: Standby and Hibernate. When using battery power, be aware that the notebook automatically enters Hibernate mode when the remaining battery charge drops below 5 percent, 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 your notebook and insert a fully charged battery.

Normal Mode

Normal mode is the normal state of your notebook when it is in use. The power indicator displays green when your notebook is in this mode. To save power, you can turn off a specific device such as the LCD or the hard disk drive.

Standby Mode

In Standby Mode the notebook saves the current state of the system in RAM and switches off power to the CPU. The amber power indicator flashes in this mode.

To activate Standby mode

To activate Standby mode, press the power button and release it immediately. You can also use the PowerPanel utility to enter Standby mode.

To return to normal mode


Press any key to return to normal mode.

Hibernate Mode

In the Hibernate mode, the state of the system is saved on the hard disk drive and power is turned off. The power indicator is off in this mode.

To activate Hibernate mode


To activate Hibernate mode, press the key combination Fn+F12.

 The “Save to Disk Manager” screen appears, and then the notebook enters Hibernate mode.

Do not move the notebook until its power indicator turns off.

To return to normal mode


To return to normal mode, turn on the notebook by pressing the power button. The notebook returns to its previous state.

 When returning from Hibernate mode, the system status stored on the hard disk is erased and the notebook starts normally if you press the power button and hold for more than four seconds.

- ☐ Time required to return to normal mode
Standby requires less time than Hibernate to return to normal mode.
- ☐ Power consumption
Standby uses more power than Hibernate.

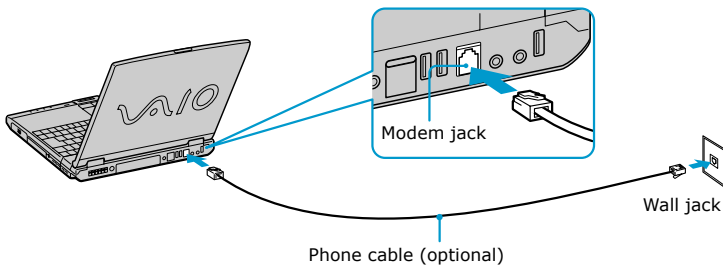
Connecting a Phone Line

You need to connect a phone line to take advantage of online services and the Internet.


 In order to register your Sony VAIO Notebook, register your software online, and use Sony Customer Support, you must connect to a phone line.

- 1 Plug one end of the phone cable into the modem port on the notebook.

Connecting phone cable



- 2 Plug the other end of the phone cable into the wall jack.

 Your notebook does not work with party lines, cannot be connected to a coin-operated telephone, and may not work with multiple phone 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.

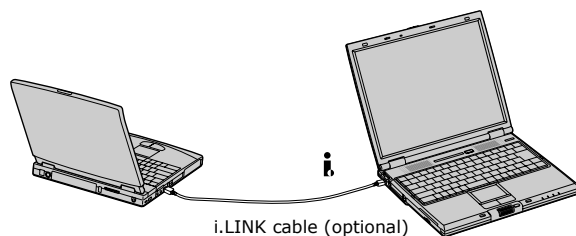
If you connect a phone line coming through a splitter, the modem or connected device may not work properly.


Connecting with another VAIO computer

The preinstalled Smart Connect software enables you to use an optional i.LINK[®]* cable to connect your VAIO Notebook to another computer that also has Smart Connect. You can then use one computer to edit, copy or delete files on the other computer. You can also print from a printer attached to either computer.

See Smart Connect online help for more information.

Connecting with an i.LINK cable



 When you connect two VAIO computers, you must assign each computer a unique name. The computers can be identified by this unique name when the two computers are networked together.

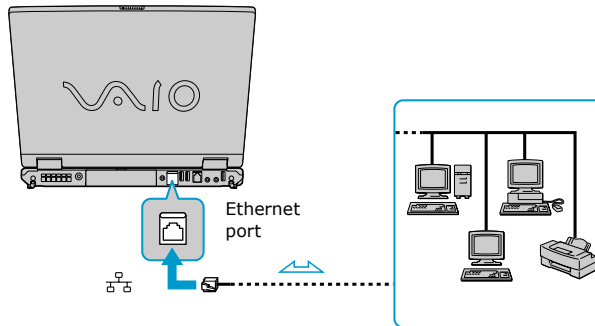
If you have previously purchased a VAIO computer or notebook that does not have Smart Connect 3.0 software preinstalled, consult the Sony Web site for support options (<http://www.sony.com/pcsupport>).


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

Connecting to a Local Area Network (LAN)

You can connect your notebook to 10Base-T and 100Base-TX-type networks. For the detailed settings and devices needed to connect to the network, ask your network administrator.

Connecting to LAN



Warning: Only connect 10Base-T and 100Base-TX cables to the  Ethernet port. Do not connect any other type of network cable or phone cable. Connecting cables other than those listed above may result in an electric current overload and could cause a malfunction, excessive heat, or fire in the port. To connect the unit to the network, contact your network administrator.

Setting Up Your Ethernet Connection

To connect to the network

- 1 Right-click My Network Places and select Properties.
- 2 Click Advanced and select Network Identification to set the computer name, domain, workgroup, and DNS suffix. You can also use the Network Identification Wizard.

To set the connections, bindings, and provider order

- 1 Right-click My Network Places and select Properties
- 2 Click Advanced and select Advanced Settings. This will give you access to Adapters and Protocol Bindings and Provider Order.


Connecting Peripheral Devices

1


You can add functionality to your notebook by connecting a variety of peripherals, as discussed in the following sections:


- ☐ Connecting an External Floppy Disk Drive
- ☐ Connecting a Port Replicator
- ☐ Connecting a PS/2 External Mouse or Keyboard
- ☐ Connecting an Audio Device
- ☐ Connecting an Audio-Video (AV) Device
- ☐ Connecting a Parallel Port Printer
- ☐ Connecting a USB Printer
- ☐ Connecting an External Display
- ☐ Connecting a Universal Serial Bus (USB) Device
- ☐ Connecting an i.LINK® Device
- ☐ Connecting External Speakers
- ☐ Connecting an External Microphone
- ☐ Expanding Your Notebook Capabilities

Connecting an External Floppy Disk Drive

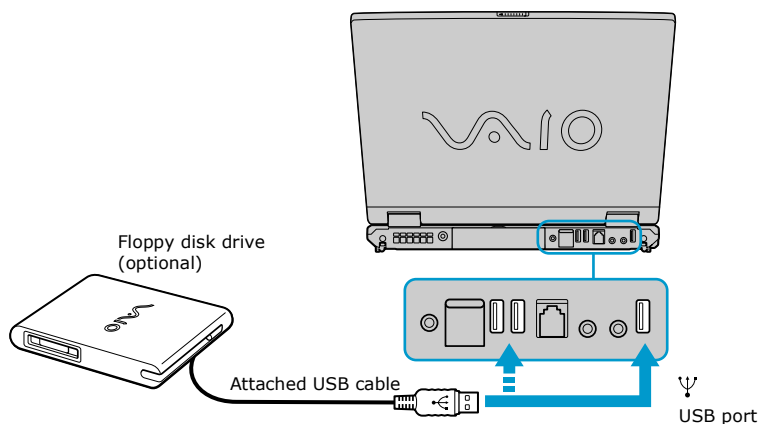
You can connect a Sony USB floppy disk drive (not supplied) to the  USB port on your notebook.

To Connect an External Floppy Disk Drive

 You do not need to shut down your notebook before connecting or disconnecting a floppy disk drive.

Plug the USB cable from the optional floppy disk drive into the  USB port on the back panel of the notebook. The VAIO logo on the disk drive should be facing upward.

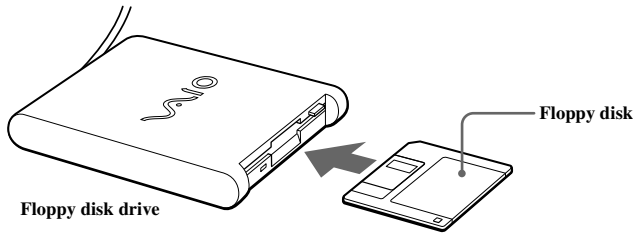
Connecting an External Floppy Disk Drive



To Insert a Floppy Disk

- 1 Hold the floppy disk with the label side facing upward.
- 2 Gently push the floppy disk into the drive until it clicks into place.

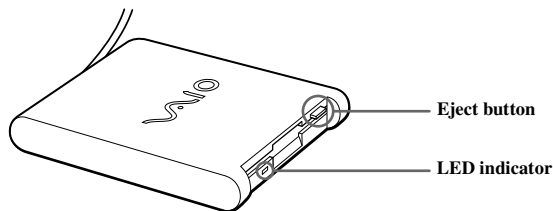
Inserting a Floppy Disk




To Remove a Floppy Disk


- When you finish using the floppy disk, wait until the LED indicator turns off and then press the Eject button to remove the floppy disk.

Removing a Floppy Disk



Removing an External Floppy Disk Drive When the Notebook is On

 If your notebook is turned off, you do not have to follow these instructions.

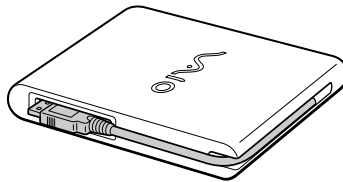
- 1 Double-click  in the task tray.
- 2 The “Unplug or Eject Hardware” dialog displays.
- 3 Select the USB Floppy Disk Drive by clicking it.
- 4 Click Stop.

- 5 Confirm the USB Floppy Disk Drive is selected in the “Stop a hardware device” dialog box.
- 6 The message “Floppy Disk Drive can now be safely removed from the system” appears. Click OK.
- 7 Unplug the floppy disk drive from the notebook.

To Carry an External Floppy Disk Drive

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

Carrying an External Floppy Disk Drive



Notes on the Floppy Disk Drive

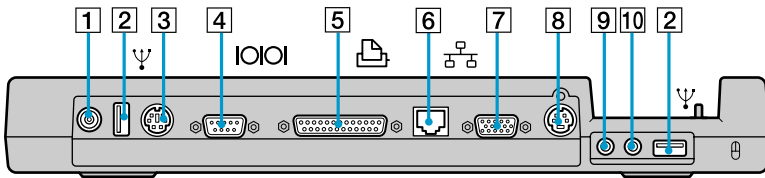
Handling Floppy Disks

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


Connecting a Port Replicator

Your notebook supports the use of a port replicator (not supplied). Attaching a port replicator enables you to connect additional peripherals to your notebook.

Port replicator




1	DC In port	6	Network port (Ethernet 10Base-T/100Base-TX)
2	USB ports	7	VGA port
3	Mouse/Keyboard (PS/2) port	8	S-Video out jack
4	Serial port	9	Video out jack
5	Printer port	10	Line-In jack

 The port replicator can be powered only with an AC adapter. Do not remove the AC adapter from the port replicator or the AC outlet when using the port replicator; this may cause data damage or hardware malfunctions.

To attach your notebook to the port replicator

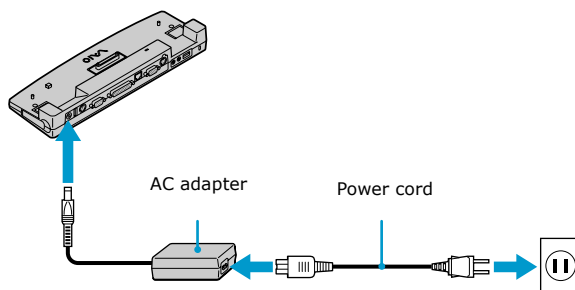
To supply power to your notebook while it is connected to the port replicator, you can connect the AC adapter directly to the port replicator.

 When attaching your notebook to the port replicator, do not attempt to insert or remove the battery pack. Lifting and turning the notebook with an attached port replicator could cause a temporary loss of power.


When connecting the video cables to S Video and Video Out simultaneously, only the S Video port can be used.

- 1 Turn off the notebook and disconnect all peripheral devices.
- 2 Plug the cable attached to the AC adapter into the **DC IN** port on the port replicator. Plug the power cord into the AC adapter and an AC outlet.

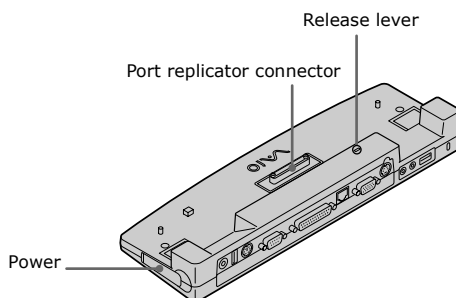
Connecting AC adapter to port replicator



The power indicator on top of the port replicator turns green.

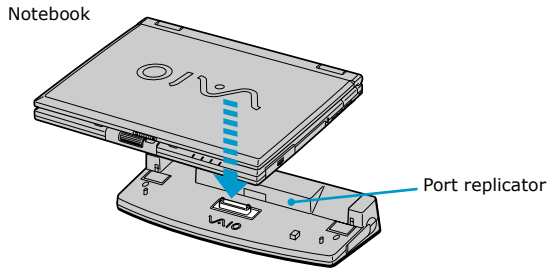
 Use the AC adapter that comes with your notebook or the optional Sony adapter.

Power indicator



- 3 Close the tilt stands before attaching the notebook to the port replicator.
- 4 Align the bottom connector of the notebook with the connectors on the port replicator and push down until it clicks into place.

Attaching notebook to port replicator

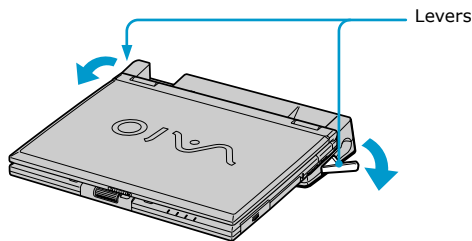


- 5 Turn on the notebook.

To remove your notebook from the port replicator

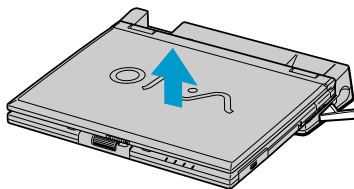
- 1 Use the Unplug/Hardware box to stop all connected peripherals, then disconnect the peripherals from the port replicator.
- 2 Pull the levers on each side of the port replicator to disengage the notebook from the port replicator.

Disengaging notebook from port replicator




- 3 Lift the notebook away from the port replicator.

Removing notebook from port replicator





Connecting a PS/2 External Mouse or Keyboard

You can connect an external mouse or keyboard to the optional port replicator using a similar type PS/2[®] plug or adapter.

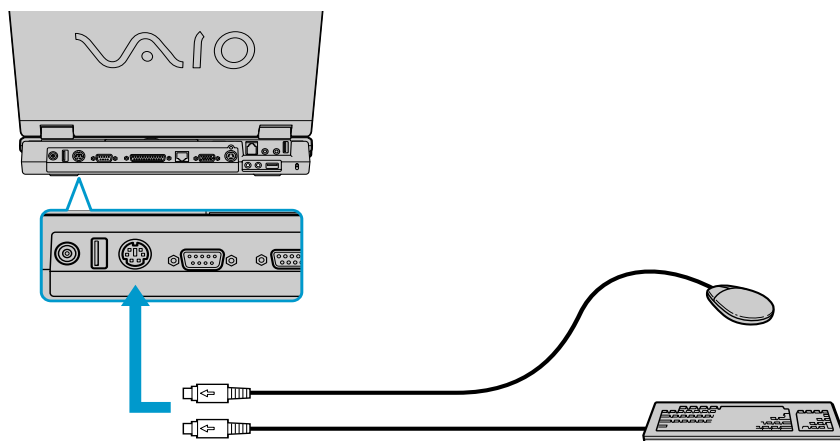
 Before you connect or disconnect the mouse or keyboard, turn off the notebook.


You can only connect one external device at a time. Therefore, it is impossible to connect both a PS/2 mouse and PS/2 keyboard simultaneously.

To connect an external mouse or keyboard

- ❑ Locate the mouse and keyboard port on the port replicator identified by the  /  symbols.
- ❑ Plug the mouse or the keyboard cable into this port with the arrow facing upward.


Connecting external mouse or keyboard



 See the manual that came with your mouse or keyboard for more information on its installation and use.

Connecting an Audio Device

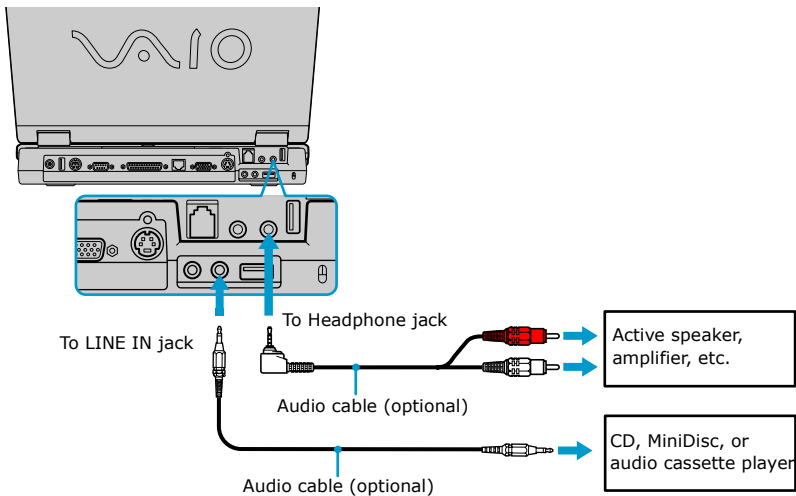
You can connect an audio device to the optional port replicator or the notebook. See the manual and online help that came with your audio device for detailed instructions.

 Use mini-plug cables shorter than 2 meters with no resistance to connect an audio device.

Connecting a CD player, active speaker, or an amplifier

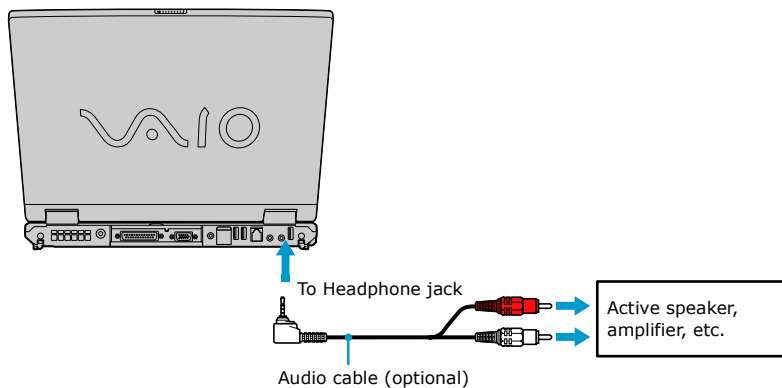
Use the optional port replicator to connect a CD, MiniDisc, or audio cassette player to the LINE IN jack and experience higher quality audio. You may also take advantage of audio output sources and connect an active speaker or an amplifier to the Headphone jack on the notebook.

Connecting an Audio Device to the Port Replicator




Without the optional port replicator, simply connect an audio device to the Headphone jack on the notebook.

Connecting an Audio Device to the Notebook



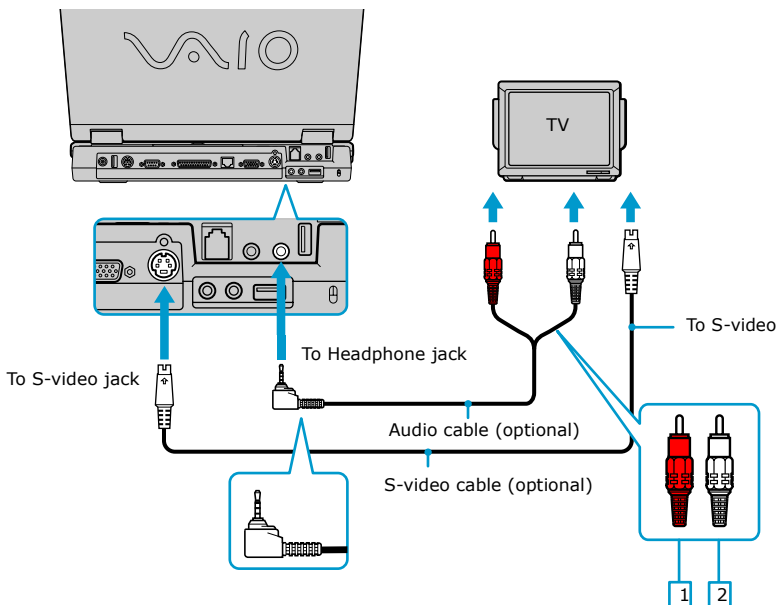
Connecting an Audio-Video (AV) Device

You can connect an AV device, such as a TV or a video deck, to the optional port replicator or the notebook.

 Prior to attaching a video device, unplug the connecting cable from the Monitor jack.

To connect an AV device to the optional port replicator, use the S-video jack and the Headphone jack, which require a S-video cable and an audio cable. To connect an AV device to the notebook, use the AV out jack, which requires an audio-video cable. Remember to switch the TV input channel to external input and set up the TV configuration system. See “Selecting the Display Mode” for more information.

Connecting a TV to the Port Replicator S-video Jack

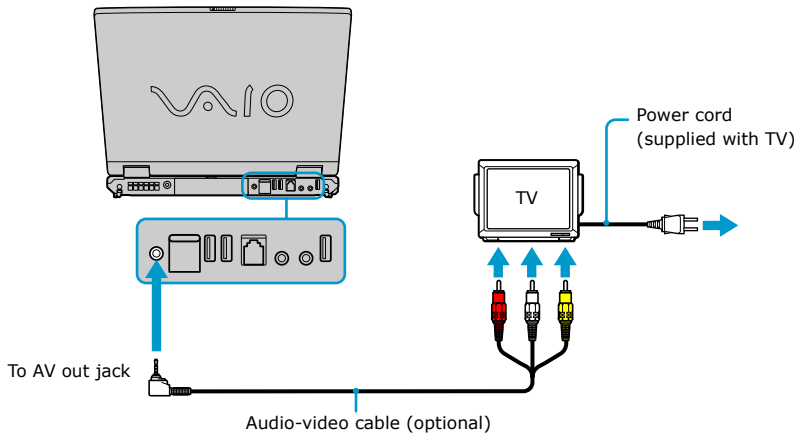



1 Audio (R)

2 Audio (L)

If you connect an AV device to the S-video jack, you must use the Audio (L) and the Audio (R). Also, the S-video jack and the AV out jack are not designed to be used simultaneously. If you connect cables to both jacks, only the S-video jack will function.

Connecting a TV to the Notebook



 See the manual that came with your peripheral device for more information on its installation and use.

If you insert a DVD in your optical drive to watch a video on your TV, the Fn+F8 key combination might not activate the function to toggle between your LCD and TV. Take the following steps:

1. Connect the TV to the notebook.
2. Restart the notebook and wait until it finishes.
3. Toggle between your LCD and your TV with the Fn+F8 key combination.


Your image is now displayed on both LCD and TV. Re-insert your DVD to launch your DVD software.

A part of the image cannot be displayed on your TV display if the resolution of your notebook is more than 1024 x 768 dots.

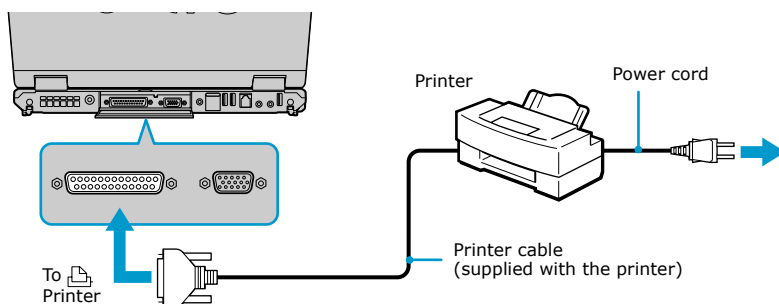
Connecting a Parallel Port Printer


You can connect a Windows 2000-compatible printer to your notebook to print documents.

To connect a printer

- ❑ Locate the Printer port identified by the  symbol. Plug the printer cable (supplied with the printer) into this port on the notebook.

Printer connector



 See the manual that came with your printer for more information on its installation and use.

If your printer stops functioning after resuming from a power saving mode, see “Troubleshooting the printer” for more information.

Before using the printer, you may need to change the Printer setting in the Sony Notebook Setup software. See “Displaying the Sony Notebook Setup Screen” for more information.

Connecting a USB Printer

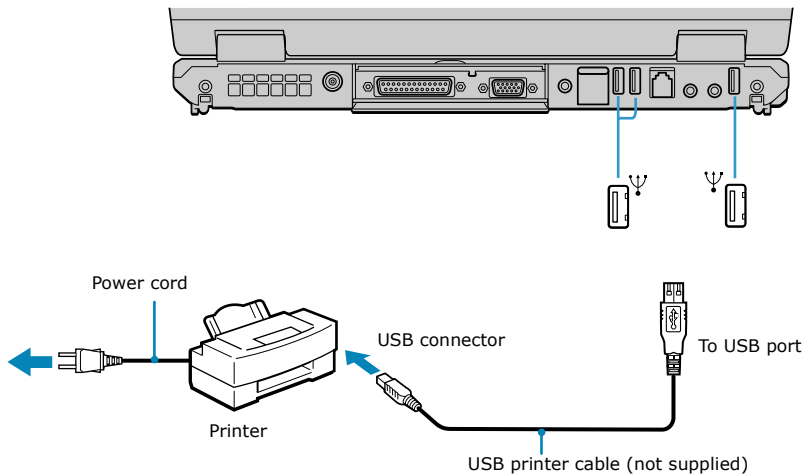
You can connect a Windows 2000 compatible USB printer to either of your notebook's three USB ports to print documents.

 To use a printer, first install the driver software that came with your printer.

To connect a USB printer

Plug the optional USB printer cable into one of the three USB ports on your notebook and the USB port on your printer.

Connecting a USB Printer




 See the manual that came with your printer for more information on its installation and use.


Connecting an External Display

You can connect an external display to your notebook. For example, you can use the notebook with any of the following:

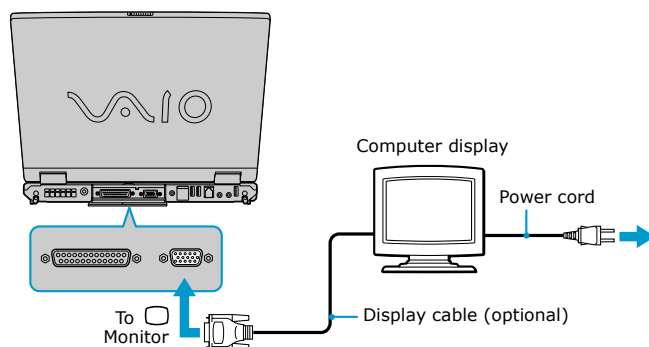
- ☐ Computer display (monitor)
- ☐ Multimedia computer display
- ☐ Projector


 Connect an external display before you turn on the notebook.

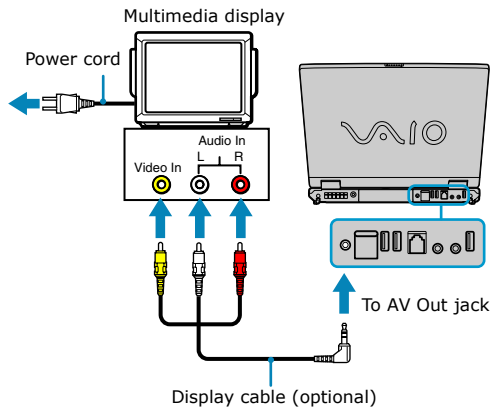
To connect a computer display

- ☐ Locate the Monitor jack identified by the  symbol on the back of the notebook. Plug the display cable (not supplied) into this jack.
- ☐ If necessary, plug one end of the display power cord into the display, and the other end into an AC outlet.




Connecting an external computer display



 See the manual that came with your computer display for more information on its installation and use.

Connecting a multimedia display*To connect a multimedia computer display*

You can connect the notebook to a multimedia computer display that includes built-in speakers and a microphone.

- 1 Locate the Monitor jack identified by the  symbol. Plug the display cable into this jack.
- 2 Locate the Headphone jack identified by the  symbol. Plug the speaker cable into this jack.
- 3 Locate the Microphone jack identified by the  symbol as well as a protruding dot above the jack. Plug the microphone cable into this jack.

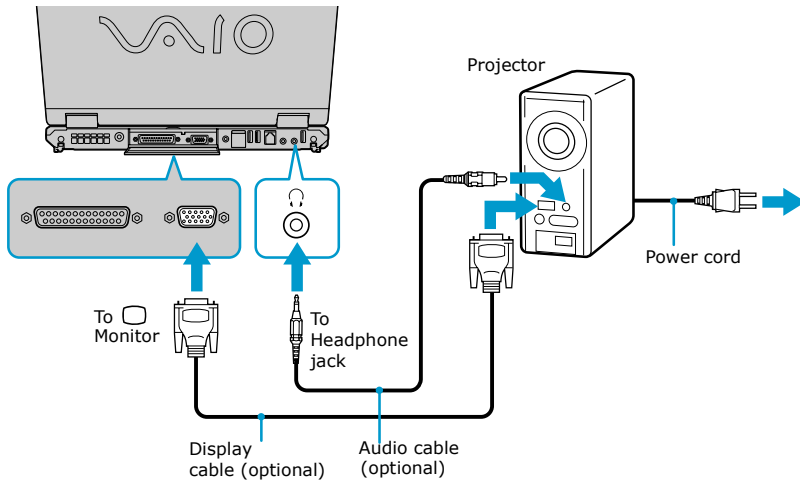


See the manual that came with your multimedia computer display for more information on its installation and use.

To connect a projector

You can use a projector, such as the Sony LCD Projector, as an external display.

Connecting a projector



See the manual that came with your projector for more information on its installation and use.

To select a display


When you connect an external display to the Monitor jack, you can toggle the output between the Liquid Crystal Display (LCD), the external monitor, or both devices.

Use the Fn+F7 keys to select a display. See also “Selecting the Display Mode” for more information.

To	Press	Result
Switch to an external display	Fn+F7	Toggles between the LCD, the external display connected to the Monitor jack, or both the LCD and external display.

Only LCD → LCD and external display


← Only external display

 Connect the cable before you turn on the notebook, otherwise Fn + F7 will not work.


Connecting a Universal Serial Bus (USB) Device

You can connect USB devices such as an external mouse, keyboard, speaker, and microphone to your notebook.

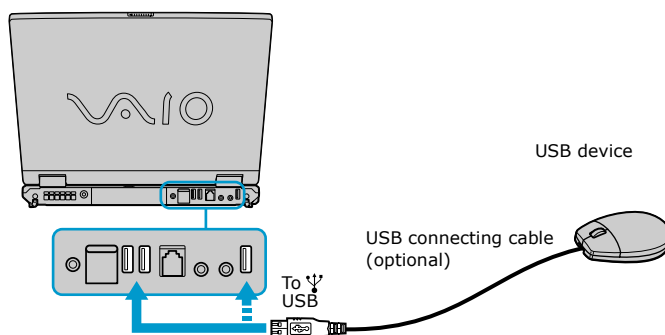
To connect a USB device

 The following steps describe the procedure for connecting a USB mouse to your notebook.


Refer to the manual that came with your USB device for specific installation instructions.

- ❑ Locate the USB device identified by the  symbol. Plug one end of the USB cable into this port and the other end into the USB device.


Connecting USB device to USB port



You can use an optional Sony USB mouse PCGA-UMS1 series (not supplied) with this notebook. Since the USB mouse software driver is preinstalled in the notebook, you simply plug the USB mouse into the USB port to use it. One USB port supports one USB device.

 See the manual that came with your USB device for more information on its installation and use.

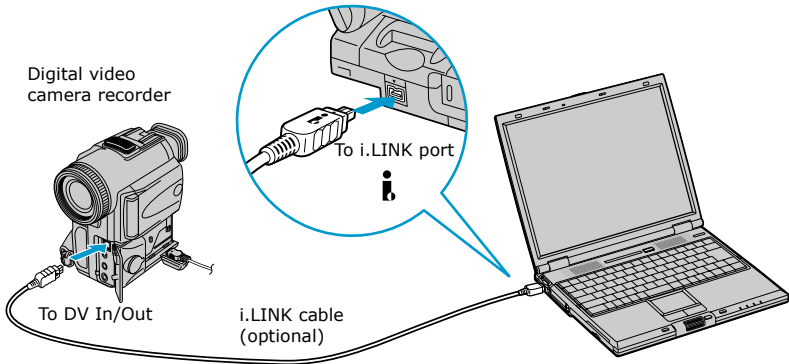
Connecting an i.LINK®* Device

You can connect an i.LINK enabled digital video camera recorder to the i.LINK® S400  (IEEE1394) port.


To connect a digital video camera recorder

- ❑ Plug one end of the i.LINK cable (not supplied) into the i.LINK port on the left side of the notebook and the other end into the DV In/Out port on the digital video camera recorder.

Connecting digital video camera recorder to i.LINK port



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

 The above figure displays a connection to a Sony digital video camera recorder; your digital video camera recorder may need to be connected differently.

Only Sony digital video camera ports labeled “DV In/Out” or “i.LINK” are i.LINK-compatible.

See the manual that came with your digital video camera recorder for more information on its installation and use.

Do not connect more than one digital video camera at a time. The software supplied with your notebook will not recognize multiple cameras.

The i.LINK port on the notebook does not supply power to external devices. If the external device requires power from the i.LINK port, you cannot use the device with the notebook.


The notebook supports transfer rates up to 400 Mbps; however, the actual transfer rate is the lowest transfer rate of the external device.

The i.LINK features available may vary depending on the software applications you use. See the documentation that accompanied your software for more information.

i.LINK cables compatible with your VAIO Notebook include cables with the following part numbers: VMC-IL4415 (a 1.5-meter cable with a 4-pin connector at each end) and VMC-IL4615 (a 1.5 meter-cable with a 4-pin connector at one end and a 6-pin connector at the other). You can purchase these cables from your local retailer, through the Sony VAIO® Direct Web site (<http://www.sonydirect.com>), or by calling 1-888-315-7669 (toll free).

Connecting External Speakers


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

 Make sure your speakers are designed for notebook use.

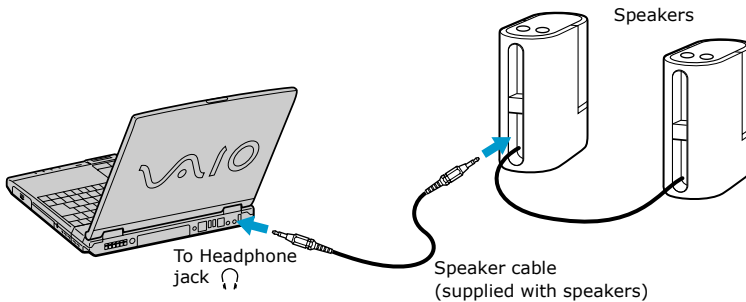
Turn down the volume of the speakers before you turn them on.


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

To connect external speakers

- ❑ Locate the Headphone jack identified by the  symbol on the back panel of the notebook. Plug the speaker cable into this jack.

Connecting speakers to the headphone jack




 See the manual that came with your speakers for more information on their installation and use.

Connecting an External Microphone

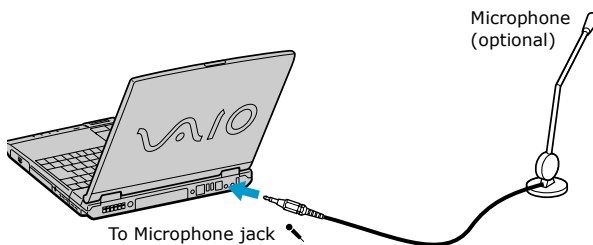
You can enhance the quality of sound input by using an external microphone.


-  Make sure your microphone is designed for notebook use. The microphone should be compliant with the plug-in power microphone.

To connect an external microphone

- Locate the Microphone jack identified by the  symbol on the back panel of the notebook. A protruding dot above the Microphone jack further distinguishes this jack from other jacks and ports. Plug the microphone cable into the Microphone jack.

Connecting microphone to microphone jack



-  See the manual that came with your microphone for more information on its installation and use.

Expanding Your Notebook Capabilities

The following peripheral devices can be connected to your notebook, to expand the capabilities of your computer and enhance its versatility to meet your various business or personal needs:

- ☐ A Personal Digital Assistant (PDA)
- ☐ A Wireless LAN Access Point
- ☐ A Wireless LAN PC Card

Personal Digital Assistant

A handheld PDA is the quintessential personal planner and entertainment center that fits in your pocket. With a PDA, you can easily perform the following functions:

- ☐ Enter your schedule details in the calendar and view them by the day, week, or month, and even set an alarm to remind you of important events.
- ☐ Keep your contact names, addresses, phone numbers, and other details in the address book, and find them when you need them.
- ☐ Add tasks to the To Do List, prioritize them, and assign them due dates.
- ☐ Synchronize your data with the software on your notebook, to back up your data.
- ☐ Track expenses when you are out of the office, then transfer the data to your notebook.
- ☐ Exchange data with your notebook.


Wireless LAN Access Point

The Wireless LAN Access Point is designed for building a wireless Local Area Network (LAN) environment. The Access Point comes with the Wireless LAN PC Card and required software. You can easily build a wireless LAN environment by plugging the Access Point into an AC power outlet, installing the Wireless LAN PC Card in your notebook, and using the provided software. Because a wireless LAN configuration requires no wiring, you can operate multiple computers more freely than ever before.

You can also connect your Access Point to a telephone line, Integrated Services Digital Network (ISDN) router, cable modem, or Digital Subscriber Line (xDSL) modem to share access to the Internet among multiple computers.

Wireless LAN PC Card

The Wireless LAN PC Card, which comes with the Wireless LAN Access Point, can be purchased separately and is designed for building a wireless LAN environment. The Wireless LAN PC Card can be used with or without the Access Point. With the Access Point, you can build a wireless LAN between computers that are equipped with the Wireless LAN PC Card and gain access to the Internet. Without the Access Point, you can achieve direct communication (Peer to Peer mode) between computers.

 For information on available Sony products, go to <http://www.sonystyle.com/vaio/>.

Customizing Your VAIO® Notebook

2

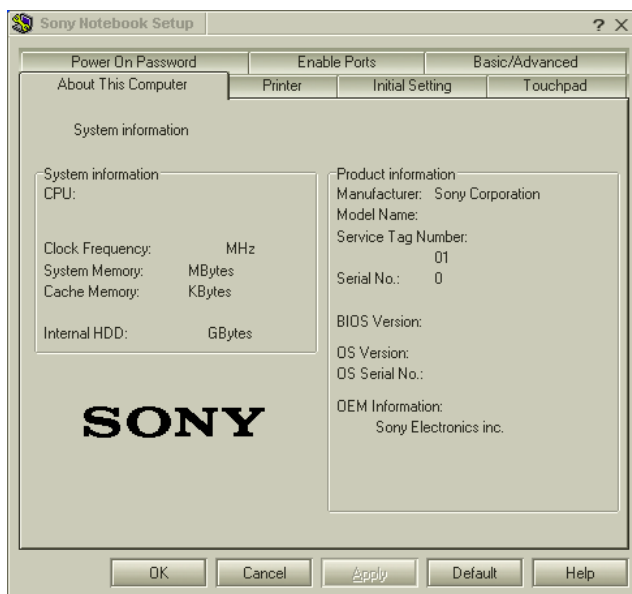
You can customize the settings of your notebook. The following sections briefly describe how to change your notebook's default settings. You can also refer to Sony Notebook Setup Help for more detailed information.

Displaying the Sony Notebook Setup Screen

To display the Sony Notebook Setup screen:

- 1 Click the Start button on the Windows® taskbar.
- 2 Select Programs, then select Sony Notebook Setup, and click Sony Notebook Setup.

Sony Notebook Setup Screen



- 3 Select the tab for the item you want to change. See “Sony Notebook Setup Tabs” for more information.
- 4 After you finish making your changes, click OK.

Sony Notebook Setup Tabs

<i>Tab</i>	<i>Description</i>
About This Computer	Display system information, including memory capacity, serial number, and BIOS version.
Printer	Select printer port mode settings.
Initial Setting	Change the volume of the sounds that play while the operating system is loading. Select the order of drives and devices from which you want to load the operating system. You can specify the hard drive as well as other drives inserted into your computer.
Touchpad	When you connect an optional mouse to your notebook, you can make your touchpad inactive. You can also customize the settings of your mouse using the mouse utility.
Power On Password	Set the password to secure your computer.
Enable Ports	Enable or disable ports. Disabling ports releases resources to the system. To change the serial settings, click Advanced on the Basic/Advanced tab.
Basic/Advanced	Switch between Advanced mode (additional screens with advanced settings) and Basic mode of display.



For more information about each option, click Help on the Sony Notebook Setup screen to display the help file.

Controlling Power Management

The PowerPanel utility allows you to control the power management of your notebook computer and provides key information about system activity and battery life. The following sections briefly describe how to conserve your computer's battery power. You can also refer to PowerPanel Help for more detailed information. To activate a profile or command, see "Displaying Battery Information" for more information.


Viewing the Power Management Status Icons

The Power Management status icons are displayed in the task tray at the lower right side of your screen. Move the pointer over the Battery icon to see the tool tip that displays information about the active profile. Double-click the icon for additional information. The Battery status icon indicates the battery power level and the Intel[™] SpeedStep Technology status icon indicates the performance level of the CPU.

To activate the Power Management Toolbar

- 1 Right-click on the taskbar at the bottom of the screen.
- 2 Select Toolbars from the pop-up menu, and then click Power Management. The Power Management toolbar appears on the taskbar.

The current profile icon is highlighted on the Power Management toolbar. It is the first icon farthest to the left, and its appearance changes depending on which power management profile is currently selected. To change the power management profile, click the current profile icon, and then select a profile from the pop-up list. See "Power Management Profiles" for a description of available options. To select another power management profile, click that icon in the Power Management toolbar.

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

Refer to the PowerPanel Help for information on customizing the Power Management toolbars.




You can change the power management settings, such as the system timer and the brightness of the screen.










To customize power management settings

- 1 Click the Current Profile icon on the Power Management toolbar.
- 2 Select Edit/Create Profiles from the menu.
- 3 Click a profile whose setting you want to change from the list in the left field.
- 4 Double-click an item whose setting you want to change from the list in the right field.
- 5 Click the desired setting.
- 6 Click the File menu, and then click Save.
- 7 Click the File menu, and then click Exit.

Power Management Profiles



The PowerPanel utility provides several predefined power management profiles. Each profile 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. You can change the settings for any of the predefined profiles (except for the Disable Power Management profile), or you can create your own profile to suit your portable computing needs. The predefined profiles are:

<i>Icon</i>	<i>Description</i>
	<i>Maximum Performance</i> Provides the best system performance while still conserving power.
	<i>Maximum Battery Life</i> Provides power saving features to give you maximum battery life and good performance. It slows the notebook and puts it into Standby mode after a specified time period.
	<i>Disable Power Management</i> Turns off all power management features such as Standby and Hibernate modes. You can not change the settings of this profile.

<i>Icon</i>	<i>Description</i>
	AC Power The power management state when AC power is in use. Similar to the Power Management Off setting. Power Management automatically loads the AC profile unless you disable this feature.
	Games Disables the display and the Hard Disk Standby timer.
	Presentation Keeps the display on at all times while it conserves power. This option is ideal for slide show presentations. You can establish settings for LCD (Video) Standby, Hard Disk Standby, and Standby mode to optimize power management for your system.
	Camera Optimizes performance and power requirements for camera usage.
	DVD Optimizes performance and power requirements for DVD usage.
	Word Processing Optimizes power management with longer timeouts on the hard disk and display screen. You can also establish settings for LCD (Video) Standby, Hard Disk Standby, and Standby mode to optimize power management for your system.
	Spreadsheet Optimizes performance and power requirements for spreadsheet applications.
	Communications Extends battery life by initiating a quick display timeout. The Internal modem remains powered. You can also establish settings for LCD (Video) Standby, Hard Disk Standby, and Standby mode to optimize power management for your system.
	Automatic Profile Selection Automatically switches to a profile suitable for active applications.

Power Management Commands

PowerPanel also provides power management commands that you can use to activate specific power management functions and to control power for a specific device. You can use these commands to override a profile setting or initiate an immediate action.

Icon	Description
	Standby Puts the system into Standby mode, a power management state that saves the state of the system and peripheral devices in memory (RAM). Power consumption reduces to a minimum, and the system remains on. To return the system to the active state, press any key or the power button on your computer. Your notebook is preset to enter Standby mode after 25 minutes.
	Hibernate Provides for the lowest level of power consumption. The system writes the state of the system and peripheral devices to the hard disk and turns off the system power. To return the system to the original state, use the power button to turn on power. The system saves the data in the Save to Disk Partition on the hard drive.

Conserving Battery Power


When using the notebook with a battery, the LCD display and the hard drive can be set to switch off automatically to conserve battery power.




See “Power Management Profiles” for more information.

Optimizing Clock Speed Settings

To customize this notebook’s CPU performance, you can set the clock speed according to one of three available modes: Maximum performance, Auto performance, and Battery optimized.

Changing the clock speed mode

- ☐ Right-click the  flag icon on the bottom right portion of the taskbar, and select Properties. The “Intel® SpeedStep™ technology” dialog box appears.
- ☐ Select one of the following modes:

<i>Icon</i>	<i>Mode Description</i>
	<i>Maximum performance</i> The Maximum performance mode sets the CPU's clock speed to its maximum speed at all times.
	<i>Auto performance</i> In Auto performance mode, the CPU clock speed changes automatically, depending on usage.
	<i>Battery optimized</i> The Battery optimized mode reduces the CPU clock speed and battery voltage to conserve power when the notebook is operating on battery power.

Displaying Battery Information

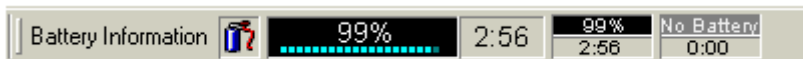
You can display information for each of the batteries in your notebook. The following sections briefly describe how to display your notebook's general battery information. Refer to PowerPanel Help for more detailed information.

To activate the Battery Information toolbar

- 1 Right-click on the taskbar at the bottom of the screen.
- 2 Select Toolbars from the pop-up menu, then click Battery Information. The Battery Information toolbar appears on the taskbar.





To view the total capacity remaining in the battery, place the pointer over the battery status icon in the task tray on the lower right side of the screen.

Battery Information Toolbar



- ☐ **Percentage indicator** — Displays the percentage of the remaining capacity.
- ☐ **Time indicator** — Displays estimated time (hours : minutes) remaining before the battery fully drains, also known as the time-to-empty.

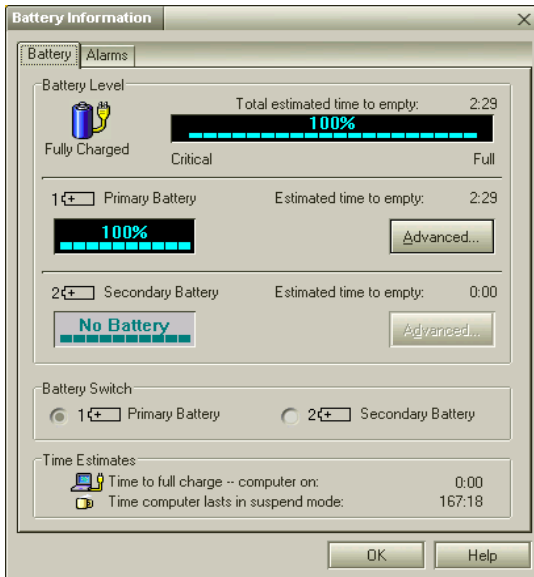
Battery Icon Descriptions

Battery icon	Battery status
	Charging
	Fully charged
	Discharging
	No battery

Displaying Detailed Battery Information

Double-click the battery icon on the task tray to display the Battery Information window. The Battery tab contains information such as battery charging time and duration of the battery charge.

Battery Information Window







Customizing the Battery Information toolbar and alarm system


You can customize the Battery Information toolbar and modify the alarm settings, to suit your portable computing needs. Refer to PowerPanel Help for more information.

Selecting the Display Mode

This notebook uses the ATI video controller. You can select which display is used when the notebook is connected to an external monitor. When you connect an external display, you can switch the display mode between your notebook's LCD display and the external monitor.

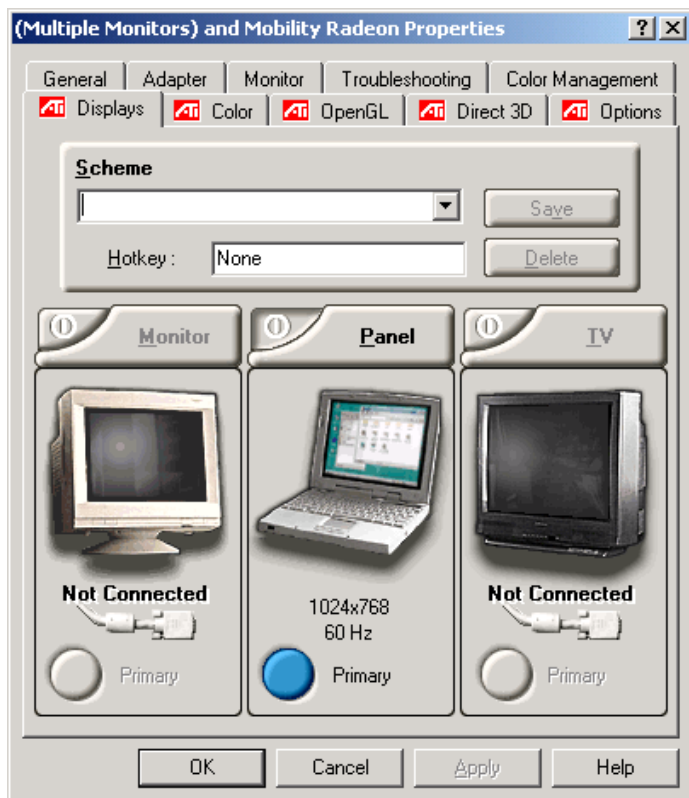
- 1 Click the Start button, point to Settings, and then point to Control Panel.
- 2 Click the Display icon. The Display Properties window appears.
- 3 Click the Settings tab, and then click the Advanced button. The ATI Mobility RADEON™-M dialog box appears.
- 4 Click the Displays tab and select the display settings by clicking the  icon on the panel of your display choice. For more information, click the Help button.

 If you cannot see your movie or DVD on the external display, change the monitor or TV setting by clicking on the Secondary  icon and changing it to Primary .

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

Turn on the notebook after you connect the external display.

(Multiple Monitors) and Mobility Radeon Properties screen



Changing the Window Design of Sony Software

To change the window design

- 1 Click the Start button, point to Settings, then point to Control Panel.
- 2 Click UI Design Selector.
- 3 Click << or >> and select the desired design.
- 4 Click Apply.

- 5 The “UI Design Selector” window design changes. The window design for your Sony software will match the “UI Design Selector” window.
- 6 To try another selection, click << or >> then click OK.
- 7 The UI Design Selector closes and the Sony software window design displays.



This feature is available with UI Design Selector-compatible software only.

Adding Memory

3

In the future you may want to install memory modules to expand the functionality of your notebook. Depending on the model you purchased, either 128 MB of memory is preinstalled in one of the two available memory module bays (128 MB x 1), or 256 MB of memory is preinstalled utilizing both memory module bays (128 MB x 2). You can replace both memory modules with optional 256 MB memory modules to increase memory up to 512 MB. For memory upgrades, use only PC133 (CL2) SDRAM SO-DIMMs (gold lead contacts).



Make sure you observe the proper safety precautions when you install memory modules in your notebook. See the bulleted list below. Be careful when adding memory. Mistakes when installing or removing a memory module may cause a malfunction.

Precautions and Procedures

- ❑ The procedures described below assume you are familiar with the general terminology associated with personal computers and with common safety practices required for using and modifying electronic equipment.
- ❑ Disconnect your system from its power source and from any telecommunications links, networks, or modems before you open the system or follow any of the procedures described below. Personal injury or equipment damage may result from failure to take these precautions.
- ❑ Electrostatic discharge (ESD) can damage memory modules and other components. Perform the procedures described below only at an ESD workstation. If such a station is not available, do not work in a carpeted area, and do not handle materials that produce or hold static electricity (cellophane wrappers, for example). Ground yourself by 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 install the module. The package protects the module from ESD.
- ❑ Use the special bag for preventing ESD or use aluminum foil when you store the memory module.

Models with 128 MB Memory

Typical expansion memory configuration

Total System Memory (MB)	Slot 1 (MB)	Slot 2 (MB)
128	128	
192	128	64
256	128	128
384	128	256
512	256	256

Models with 256 MB Memory

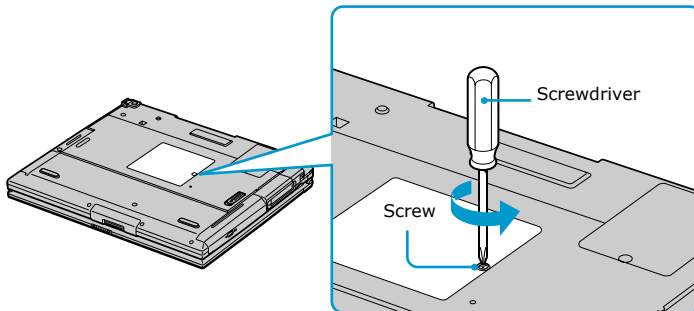
Typical expansion memory configuration

Total System Memory (MB)	Slot 1 (MB)	Slot 2 (MB)
256	128	128
384	128	256
512	256	256

To remove a memory module

- 1 Shut down your notebook and disconnect all peripheral devices, such as your printer.
- 2 Unplug the notebook and remove the battery pack(s).
- 3 After the notebook has cooled, loosen and remove the screw that secures the cover of the memory bay on the bottom of your notebook. Use an appropriate screwdriver.

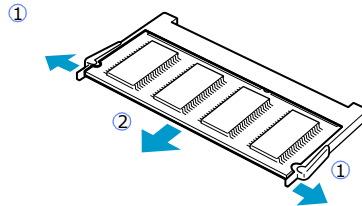
Removing the memory module cover



- 4 Touch a metal object (such as the connector panel on the back of your notebook) to discharge any static electricity.

5 Remove the memory module.

Removing memory module



① Pull the tabs in the direction of the arrows.
The memory module is released.

② Pull the memory module in
the direction of the arrow.

6 Tighten the screw on the memory bay cover.



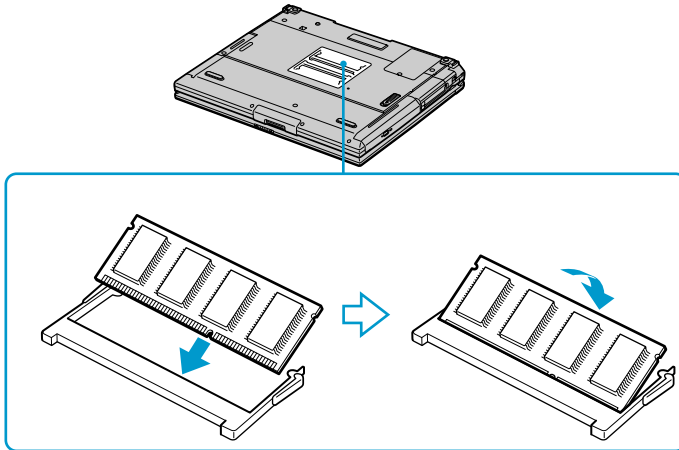
Your notebook comes with a memory module installed in the memory slot. To upgrade your memory, removal of these modules may be necessary before installing your upgrade memory module.

To install a memory module

- 1** Follow steps 1 to 4 of “To remove a memory module” for removing the preinstalled memory.
- 2** Remove the new memory module from its packaging.

- 3 Install the memory module by sliding it into the memory module slot. Press the module into place until it clicks.

Installing memory module



1 Slide the memory module into the slot. 2 Press the module into place until it clicks.

- 4 Tighten the screw on the cover of the memory bay.

To view the amount of memory

- 1 Restart the notebook, then click the Start button on the Windows taskbar.
- 2 Select Programs, then select Sony Notebook Setup, and click Sony Notebook Setup.
The Sony Notebook Setup screen appears.
- 3 Click the “About This Computer” tab to view the amount of system memory. If the additional memory is not shown, repeat steps 1 through 4 in “To install a memory module” and restart the notebook.

About the Software on Your Notebook

4

Your VAIO® Notebook is ready to help you work, play, learn, and communicate as soon as you turn it on. This section gives you the following:

- ❑ An overview of the various software that come with your notebook and the activities you can perform with your software
- ❑ Software support information
- ❑ Details on your Sony application, driver, and system recovery CDs

Overview

Adobe Acrobat® Reader™

Adobe Systems, Inc.

Acrobat Reader software allows you to view, navigate, and print electronic documents in Adobe Portable Document Format (PDF), an open file format that is intended to preserve the fidelity of documents created on all major computer platforms.

America Online®

America Online, Inc.

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

CompuServe® 2000

CompuServe Interactive Services, Inc.

CompuServe is the most comprehensive source of organized business and educational information online today. CompuServe allows you to access the vastness of the Internet, without wasting time wading through it. Maximize your time online with CompuServe.

DVgate™

Sony Electronics Inc.

Connect a digital video camera recorder to the i.LINK®* connector and capture your own video clips and still images. You can edit clips from your video, add others, and combine clips into new movie segments. You can also save your images in a variety of popular file formats.

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

Easy CD Creator™ (On selected models)

Roxio, Inc.

Easy CD Creator lets you make your own data, audio and multimedia CDs. You can back up your important files to CD, and read them back on standard CD-ROM drives. Create your own audio CDs right on your desktop, and play them back on your home or car stereo CD player. You can make your own personalized color jewel case inserts with custom text and graphics. You can even make backup copies of your existing CDs. The Easy CD Creator Wizard makes creating your own custom CDs a simple process.

Microsoft® Word

Microsoft Corporation

Microsoft Word makes it easy to create shared Web, e-mail, and print documents for use around the world. It embraces HTML as a first-class file format and extends Word's ease-of-use to the Web and e-mail. Word also extends that ease-of-use to international users, making it simple to create multilingual documents.

MovieShaker™

Sony Electronics Inc.

Sony's original MovieShaker software creates personal movies that have transitions, background music and text. Just import your video clips and "shake" with a click of the mouse. Your personal movies are easy to create and fun to share with family and friends. (See "MovieShaker™" below.)

Netscape Communicator®

Netscape Communications Corporation

Netscape Communicator is an all-in-one Internet tool that makes it easy to browse the web, send Internet e-mail, chat, read newsgroups, and compose great Web documents.

Norton AntiVirus™

Symantec Corporation

Norton AntiVirus is the world's leading anti-virus software. Just install it and forget it. It's always working in the background to protect your PC, and now it automatically updates its virus definitions when you're connected to the Internet. It also scans files you download from the Web, as well as attachments you get through e-mail.

PictureGear™

Sony Electronics Inc.

This image management software displays images from your hard drive, a Sony digital still camera, or a Sony Mavica® camera. The images appear in a convenient light-table format, so that you can easily view the contents of an entire folder. (See "PictureGear™" below.)

PowerPanel

Sony Electronics Inc.

The PowerPanel utility controls the power management of your notebook and provides key information about system activity and battery life. Automatic power management selects the most appropriate profile, depending on the application with which you are working and the conditions of use. See the PowerPanel chapter or the PowerPanel Help file for more information.

Prodigy Internet®

Prodigy Communications Corporation

An online service that helps you find what you need online faster and smarter. Prodigy delivers powerful online content such as sports scores, stock quotes, news, and easy access to Excite, plus quality customer service, all at a competitive price.

Quicken® 2001

Intuit, Inc.

Quicken is a fast, easy way to organize your finances. Quicken works just like your checkbook, so it is easy to learn and use. Quicken manages all your finances, bank accounts, credit cards, investments, and loans. You can even pay your bills online.

QuickTime™

Apple Computer Inc.

QuickTime is the Apple technology that makes video, sound, music, 3D, and virtual reality come alive for your Internet browser and Windows.

RealJukebox®

RealNetworks Inc.

RealJukebox is one of the world's most widely used personal music management systems. Using RealJukebox, you can capture the contents of a music CD, manage and play back your music and view various music related information via the Internet. This custom RealJukebox for Sony allows seamless check-out capabilities to a wide range of Sony personal audio devices, and offers convenient links to Sony product and music service homepages.

RealPlayer®

RealNetworks Inc.

RealPlayer is the RealNetworks video and audio player which let you access 2, 500 radio stations featuring music, news, and sports.

RealProducer® G2

RealNetworks Inc.

RealProducer converts your audio and video files, or live feeds, into RealAudio and RealVideo for the Internet or your intranet. RealProducer is easy to use, gives you better control over your content, and is packed with exclusive features. Featuring support for CD-quality RealAudio 8 and VHS-quality RealVideo 8, RealProducer is an excellent choice for both beginners and pros.

Smart Capture

Sony Electronics Inc.

Smart Capture is a fun new way to send multimedia messages via e-mail. Smart Capture manages the i.LINK® connection between your notebook and a Sony Digital Handycam® Camcorder that supports the i.LINK interface. It allows you to capture compressed video or still images that you can save or share via e-mail. A smart solution to computer, digital audio/video, and network convergence.

Smart Connect

Sony Electronics Inc.

Smart Connect allows you to use an i.LINK cable to connect your VAIO Notebook to another VAIO computer that supports Smart Connect. You can then use one computer to copy, delete, and edit files on the other computer. You can also print from a printer attached to either computer.

Sound Forge® XP (On selected models)

Sonic Foundry, Inc.

Sound Forge XP allows you to put powerful audio processing tools and effects to work on your desktop. Simply cut, copy, and paste your way to striking multimedia files for use in everything from Web pages to desktop presentations.

VAIO Action Setup

Sony Electronics Inc.

VAIO Action Setup manages the settings for your notebook's Shortcut keys and i.LINK interface.

VAIO Support Agent

Sony Electronics Inc.

VAIO Support Agent provides immediate, interactive, on-line support.

WinDVD®

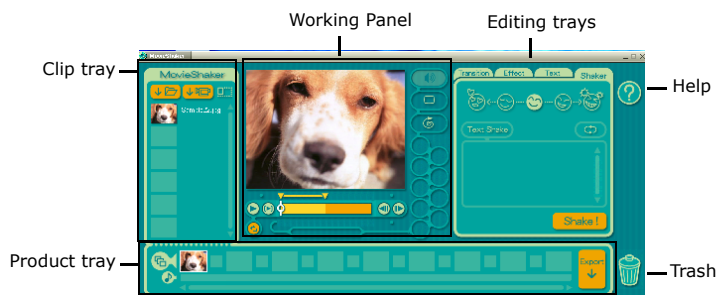
InterVideo, Inc.

WinDVD is a simple-to-use DVD player combining all the features you would expect to find in a standard consumer DVD player, in addition to some very advanced functionality, such as full VCD 2.0 support, full precision video decode, a choice of user interfaces, and video display options. You can play DVD titles or Video CDs. WinDVD automatically determines the type of disc in the optical drive and uses the correct playback method.



MovieShaker™

This application can be used to create fun and innovative movies without any knowledge of film editing. In a few simple steps, motion pictures can be combined with special effects, still images, and music files, and then saved in a format compatible with most computers.

Main Window



Importing Images and Sound Clips

- 1 Click  (File Import) or  (DV Import).
- 2 Find the file you want to add.
- 3 Select the file.
- 4 Click Open. The file is added to the Clip tray.



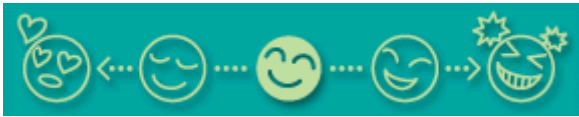
Importing large files may cause MovieShaker software to stop responding.

Create a Movie using Shaker


After adding clip(s) to the Clip tray, you can create a short movie using the Shaker feature. Shaker randomly select clips from the Clip tray to create a 30-second scene.

- 1 Click the Shake tab.
- 2 Select a mood by clicking a face in the Shaker tray.

Shaker Tray



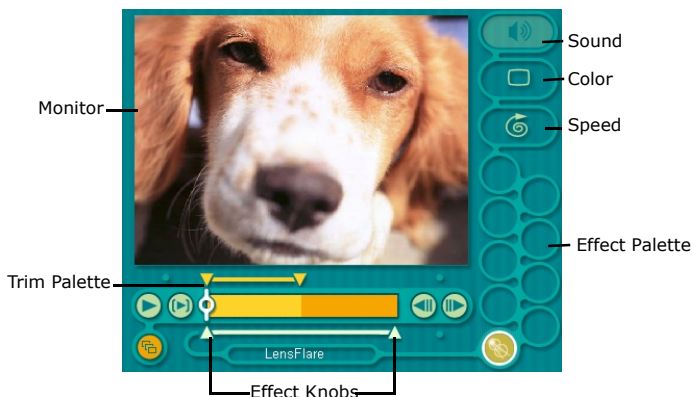
- 3 Click **Shake !**. A 30-second scene is automatically generated and saved to the Product tray.
- 4 To preview, switch the scene from the Product Tray to the Work Panel and press play.

 Scenes created with Shaker begin with a black frame and after processing are placed in the first available slot on the Product tray. Limit the number of scenes placed on the Product tray to five or fewer. MovieShaker software may stop responding if too many scenes are placed on the Product tray.

Editing Clips and Scenes

You can edit your movie by adding effects and text, adjusting the color and contrast, and modifying the length of clips.

Working Panel



Adding effects to a scene or a clip

- 1 Double-click the clip or scene to move it to the Working Panel.
- 2 Select the Effects tab from the Editing tray.
- 3 Drag and drop the Effect you want to add from the Effects tray to the Effects palette on the Working Panel.

 To preview an Effect, click on the clip in the Working panel monitor. Your clip displays with the new effect on the Effect tray monitor.


- 4 See Help for instructions on adjusting effect duration and replaying clips and scenes.

Saving a Movie

- 1 Verify that the clip(s) you want to save is on the Product tray. See Help for more details on saving movies.
- 2 Click Export.

- 3 Select the format in which you want the clips to be saved.
- 4 Click Next.
- 5 Locate the folder to which you want the file saved.
- 6 Name the file.
- 7 Click Save.

Exporting movies may take a long time to complete—Quick-Save is the fastest way to save a movie, while “Save movie as DV” (Digital Video) takes the longest. MovieShaker can play video files up to 65 MB in size.

 For DV playback and smooth video playback, Sony recommends the following resolution refresh rates: 1024 x 768/75 Hz or lower.

PictureGear™

PictureGear software is a digital image management application that enables you to see all the images stored in any directory on your notebook. Thumbnail views provide quick reminders of your pictures. Brighten, contrast, enhance, resize, crop, and color-correct your pictures. Create panoramic views, animations, screen savers, wallpaper, still pictures from MPEG, and even HTML photo albums.

Managing Your Pictures

Use the Collection feature to manage your pictures.

- 1 From Collection menu, select Create New Collection.
- 2 Enter a name for the collection and then click OK.
- 3 Click the Folder tab and browse to locate your pictures.
- 4 Select the pictures you want to have in a collection.
- 5 Select Add File to Collection.
- 6 Select Collection Folder and then click OK.

Creating a Photo Album


- 1 Select the pictures you want to use to make an album.
- 2 From the Utilities menu, select Album Maker.
- 3 Choose the type of Album you want and click OK.
- 4 Now add more pictures, frames, text, and effects.
- 5 When you are finished, select Create Album in File menu or click the Create Album icon on the toolbar.
- 6 Designate the folder you where want to save the Album.
- 7 Enter the Target Album name, select Thumbnails and click OK.
- 8 The new album can be viewed using most Internet browsers.

Using Panorama Maker

Panorama Maker stitches a group of still images into a 360-degree panoramic picture. The source images should be the same size and overlap 20 percent.

How to stitch a panoramic picture:

- 1 Gather the source images into the same folder or collection.
- 2 Select the images you want to use.

 Sony recommends creating your panoramic picture with 12 landscaped or 16 portrait pictures.

- 3 From the Utilities menu select Panorama Maker.
- 4 Select the correct lens and click Okay. (If 35mm lens is selected the prompt, does not appear; to select a different lens, click the lens icon.)
- 5 Click the panoramic icon, near the bottom of the window.
- 6 Click Full Stitch.

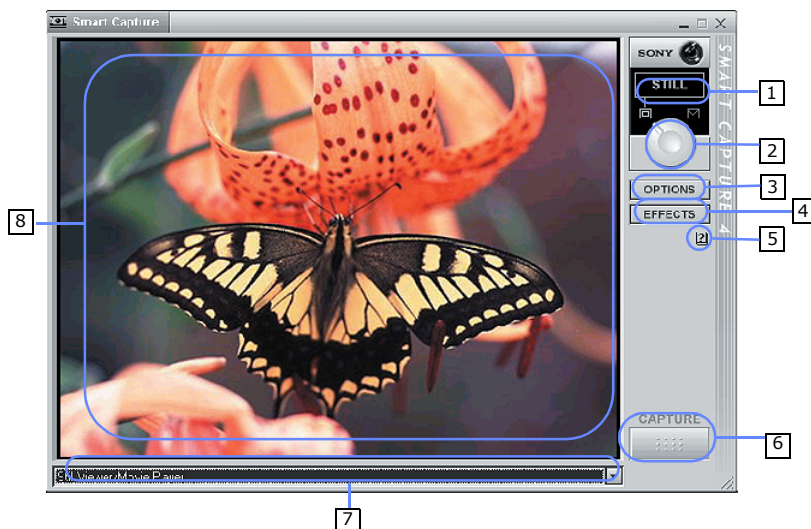
Making Still Images and Panoramic from MPEG

- 1 Select the MPEG file.
- 2 From the Movie/Sound menu, select Scene break down.
- 3 Then select Movie Stitch, to create a panoramic picture.

Smart Capture

Smart Capture is a Sony-designed application that manages the i.LINK®* connection between your computer and a compatible i.LINK digital camera or camcorder. You can capture and enhance video or still images to share with your family and friends over the Internet or through e-mail.

Smart Capture main window



1 Mode indicator

Displays the current mode (Still or Net Movie).

5 Help button

Connects you directly to the online Smart Capture help.

* 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. Refer to the documentation that came with your compatible i.LINK device for information on operating conditions and proper connection. Before connecting compatible i.LINK PC peripherals to your system, such as a CD-RW or Hard Disk Drive, confirm their operating system compatibility and required operating conditions.

2 <i>Mode dial</i> Switches Smart Capture from Still mode to Net Movie mode with a single click of your mouse.	6 <i>Capture button</i> Captures your individual still images in the same manner as a camera. You can select different characteristics for the Capture button when capturing a Net Movie.
3 <i>Options button</i> Displays the configuration options available for either Still or Net Movie mode.	7 <i>Application Switch drop-down list</i> Switches between the Still image and Net movie modes, using a drop-down list.
4 <i>Effects button</i> Displays the special effects that you can apply to your pictures or video clips.	8 <i>Image window</i> Displays the still or video image from your digital camera or camcorder.

Using Still mode

- 1** From the Start button, point to Programs, point to Smart Capture, and then click on Smart Capture. The Smart Capture main window appears.
- 2** Connect your compatible i.LINK digital camera or camcorder to your computer with an i.LINK cable. An image appears in the Smart Capture main window.

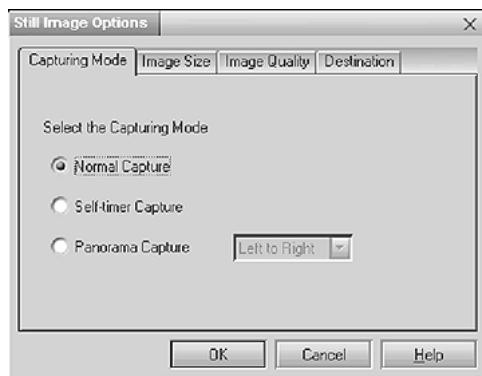


The Smart Capture main window opens with a blue screen image, indicating that there is no data input from a digital camera or camcorder. When you connect your digital camera or camcorder to your system with an i.LINK cable and turn it on, an image appears in the main window. Some cameras and camcorders need to have a recording media inserted before an image can be displayed in the Smart Capture window. Consult the manual that came with your digital camera or camcorder for more information.

- 3** Check that the Mode dial is set to Still. Click on the Mode dial to switch between Still mode and Net Movie mode.

- 4 Click on the Options button to view the available options for your still image capture. The Still Image Options window appears.

Still Image Options window

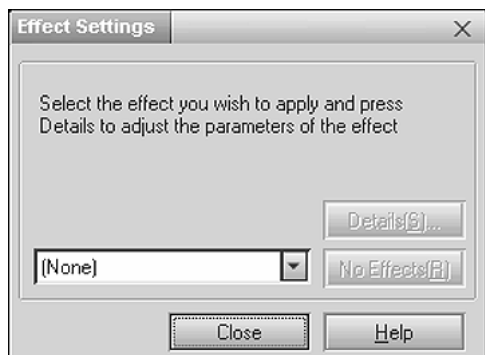



The Still Image Options window has four tabs:

- ❑ **Capturing Mode** — You can choose between Normal, Self-timer or Panorama Capture modes.
- ❑ **Image Size** — Select the image size, horizontal by vertical in pixels.
- ❑ **Image Quality** — Set the quality of your pictures as they are being saved by selecting Fine, Standard or Economy image quality.
- ❑ **Destination** — Select a file destination for your pictures.

- 5 Click on the Effects button to select a special image effect. The Effect Setting window appears. Use the drop-down list to view and customize the available effects.

Effect Setting window



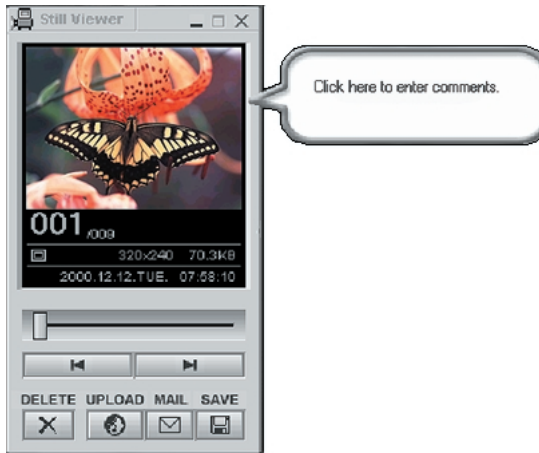
 You can use a different special effect for each picture, or you can remove all special effects by clicking on the No Effects button.

Capturing a picture in Still mode

- 1 Use your digital camera or camcorder to locate the image you want to capture. When you see the desired image in the Smart Capture window, click

on the Capture button. The Still Viewer window appears. You can capture one picture or several pictures at a time.

Still Viewer window




- 2 Click on the arrows or drag the scroll bar to view the pictures. As each image is captured, it displays in the Still Viewer window with a balloon for your comments and an identifying number in the viewer's queue.

Managing pictures in Still mode

From the Still Viewer window, you can perform various functions using the task buttons:

- ❑ **Delete** — Discard any or all of your still images by clicking on the Delete button. Select a single image or all and the image(s) is “torn” and removed from the Still Viewer window.
- ❑ **Upload** — Send your still images online to the ImageStation Web site to share with your family and friends. ImageStation stores your still images online when you register for this free service. See “Using ImageStationSM”.
- ❑ **Mail** — E-mail your still images to your family and friends. Click on the Mail button and your e-mail application launches with a new message window containing the still image.

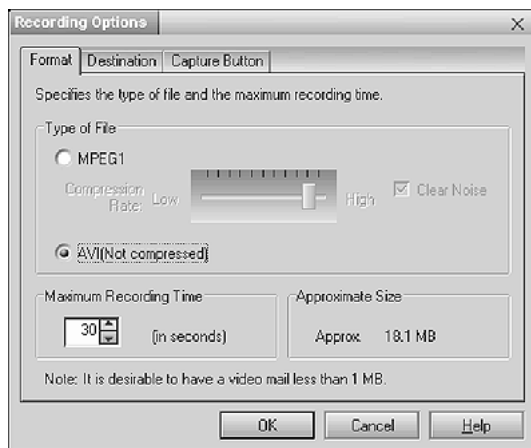
- ❑ **Save** — Click on the Save button to save your still image in a variety of formats, to a location of your choice.

 You must be connected to the Internet before attempting to upload or e-mail your still images or videos.

Using Net Movie mode

- 1 From the Start button on the Windows taskbar, point to Programs, point to Smart Capture, and then click on Smart Capture. The Smart Capture main window appears.
- 2 Connect your compatible i.LINK digital camcorder to your computer with an i.LINK cable. An image appears in the Smart Capture main window.
- 3 Check that the Mode dial is set to Net Movie. Click on the Mode dial to switch between Still mode and Net Movie mode.
- 4 Click on the Options button to view the available options for your movie capture. The Recording Options window appears.

Recording Options window




The Recording Options window has three tabs:

- ❑ **Format** — You can adjust the compression rate for your movies in MPEG1 format or choose the AVI option for no compression. You can also set the maximum recording time for your movie capture.
 - ❑ **Destination** — Select a file destination for your movies when recording video clips.
 - ❑ **Capture Button** — Set the characteristics of the Capture button. You can start and stop recording by pressing the Capture button (this is the default characteristic). You can select Anti-Ground Shooting, which allows recording to occur only while the Capture button is pressed. Recording will stop when you release the button.
- 5 Click on the Effects button to select a special image effect. The Effect Setting window appears. Use the drop-down list to view and customize the available effects.

 You can remove all special effects by clicking on the No Effects button.

Capturing a movie in Net Movie mode

- 1 Use your digital camcorder to locate the view(s) you want to capture. When you see the desired view in either the Smart Capture window or your camcorder's viewfinder, press the Capture button to begin recording your movie. The Movie Player window appears.
- 2 Click on the Capture button when you have finished recording your movie and the first frame of your movie appears in the Movie Player window. You can record a movie for approximately 30 seconds. The Movie Player feature will automatically stop recording when this time limit is reached.

 If you have set the Capture button to use the Anti-Ground setting, you must press and hold the Capture button to continue recording.

Movie Player window



- 3 You can review your movie from the Movie Player window by using the play, pause and stop buttons. Click on the arrows or drag the scroll bar to view your movie. Each frame is displayed with an identifying number in the queue.

Managing your movie in Net Movie mode

From the Movie Player window, you can perform various functions using the task buttons:

- ❑ **Delete** — Discard any frame or the entire movie by clicking on the Delete button. The frame or movie is removed from the Movie Player window.
- ❑ **Upload** — Compress and send your movies online to the ImageStation Web site to share with your family and friends. ImageStation stores your movies online when you register for this free service. See “Using ImageStationSM”.
- ❑ **Mail** — E-mail your movies to family and friends. Click on the Mail button and your e-mail application launches with a new message window containing the movie.
- ❑ **Save** — Click on the Save button to compress and save your movie in a variety of formats, to a location of your choice.

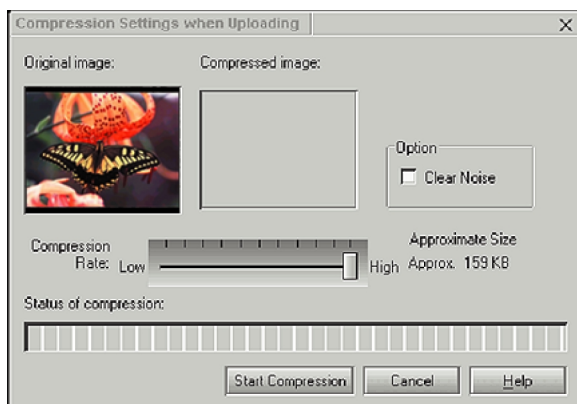
Using ImageStationSM

ImageStation is a free online service that allows you to store your pictures and movies on the Internet to share with family and friends. ImageStation requires an Internet connection and registration for the Web-based service. You must be connected to the Internet before uploading your pictures or movies with Smart Capture and ImageStation.

Uploading with Movie Player

- 1 Click on the Upload Button in Movie Player. The Compression Settings when Uploading window appears.

Compression Settings when Uploading window



- 2 Select the compression rate and press the Start Compression button. The ImageStation Login window appears. See steps 2 to 4 in the next section, “Uploading with Still Viewer,” for further uploading information.



Sony recommends that your movie file size not exceed 254 MB if compressed, or 2 GB if not compressed. Large movie files take longer to upload to the ImageStation Web site.

Uploading with Still Viewer

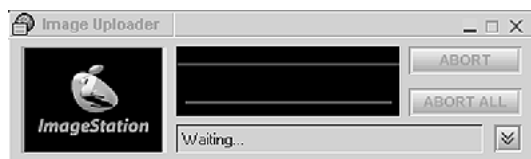
- 1 Click on the Upload button in Still Viewer. The ImageStation Login window appears.


ImageStation Login window




- 2 For first time users, the ImageStation registration wizard guides you through the initial registration process. Follow the onscreen instructions. If you are already a registered member, provide your login name and password. The Image Uploader window appears.

Image Uploader window



- 3 From the Still Viewer or Movie Player window, click on the Upload button to transfer your pictures or movies to the ImageStation Web site. The Image Uploader windows displays your Internet connection and upload status. Click on  to see thumbnail previews of your pictures or movies.

 The ImageStation preview feature is available when you upload two or more pictures or a movie. No preview is shown if a single picture is being uploaded.

- 4 Go to <http://www.imagestation.com> to view your uploaded pictures or movies. Follow the onscreen instructions to access your ImageStation account. The ImageStation Web site may ask you to complete a full login again, if your current session is not active.

VisualFlow™

VisualFlow software is a Sony state-of-the-art multimedia browser designed specifically for Memory Stick media. It displays any still picture, movie, or sound files stored in a Memory Stick media in a visually pleasing, artistic manner. VisualFlow software plays a selected movie or sound file, and enables playback of files by other applications such as PictureGear™, PictureToy™, Memory Stick Slideshow, and Windows® Explorer.

To use VisualFlow

- 1 From the Start menu, point to Programs, point to VisualFlow, and then click on VisualFlow.



If your system is compatible with Memory Stick media, the VAIO Action Setup may be configured to launch the VisualFlow browser upon insertion of a Memory Stick media. In this case, the VisualFlow application starts automatically when a Memory Stick media is inserted.

- 2 Click on an icon in the View section on the main toolbar to select a display layout.
- 3 Click on an icon in the Sort section on the main toolbar to select a sorting method.
- 4 Placing your cursor on the left end of the main toolbar activates the current Memory Stick properties.
- 5 Placing your cursor on the right end of the main toolbar activates a secondary toolbar with more functions.
- 6 Click on an image to show a normal view centered on the screen.
Double-clicking an image shows an enlarged view.
- 7 The movie file starts playback when the view is enlarged. Click again on the movie files to restore the view to normal.



While an image is enlarged, the Launch toolbar appears at the bottom of the window. Any associated application can be activated from this point.

Using DVgate™ Software

In order to improve the performance of your notebook's DVgate™ motion software, the hard disk drive on your notebook has been formatted with two partitions, C and D. The C partition holds 40 percent, and the D partition holds 60 percent of the entire drive capacity. DVgate software saves files to the D partition. This prevents large video captures from consuming the available space on your C partition. To maintain optimum performance of DVgate software, you should defragment or format the D partition regularly.

To defragment a partition



Before you defragment a partition, make sure you back up all files that you want to save.

- ❑ Click the Start button in the Windows® taskbar.
- ❑ Click Programs, then Accessories, then System Tools, and then Disk Defragmenter. The Disk Defragmenter window appears.

Select the drive you want to defragment from the list, and click the Defragment button. See Windows® Help for more information on defragmenting.

DVgate plug-in for Adobe Premiere®

If your VAIO® Notebook does not come with Adobe Premiere pre-installed and you subsequently purchase that software, you must install a plug-in to enable DVgate™ 2.3 software.

Installing the DVgate plug-in

To install the plug-in for Adobe Premiere® 5.1 and 5.1LE, proceed as follows:

- ❑ Click Start in the Windows® taskbar and select Run.
- ❑ Click Browse and, from your C: drive, select Program Files, and Sony, and Dvgate, and Premiere Plug-in, and then 5.1.
- ❑ Select "Setup.exe" and click Open. Then click OK to install the plug-in.

To install the plug-in for Adobe Premiere® 6.0, proceed as follows:

- ❑ Click Start in the Windows® taskbar and select Run.

- ❑ Click Browse and, from your C: drive, select Program Files, and Sony, and Dvgate, and Premiere Plug-in, and then 6.0.
- ❑ Select “Setup.exe” and click Open. Then click OK to install the plug-in.

Application, System, and Driver Recovery CDs

Your notebook comes with the following application, driver, and system recovery CDs. To use your recovery CDs, see “Using Your Recovery CDs” for more information.

Application Recovery CD(s)

Sony Electronics Inc.

This CD enables you to reinstall individual applications if they become corrupted or erased.

Driver Recovery CD(s)

Sony Electronics Inc.

This CD enables you to reinstall individual device drivers if they become corrupted or erased.

System Recovery CD(s)

Sony Electronics Inc.

This CD enables you to format the C:\ partition of the hard disk drive, then reinstall the operating system and software titles that shipped with your notebook, if they become corrupted or are erased. Use it to restore the hard disk of the VAIO® Notebook you purchased. This CD restores your notebook to its original state, so user data and applications will be lost.

Using Your Recovery CDs

The following sections describe how to use the Application Recovery, Driver Recovery, and System Recovery utilities.

Using the Application Recovery CD(s)


The Application Recovery CD utility enables you to reinstall individual applications if they become corrupted or are accidentally erased. Reinstalling an individual software title may correct a problem you are experiencing with your notebook or software application; you may not need to reinstall the entire contents of your hard drive. If you need to reinstall all the software titles that shipped with your notebook, use the System Recovery CD(s). See “Using the System Recovery CD(s)” for more information.

You can also use the Application Recovery CD to install Windows drivers on your notebook.

 You must be in Windows to run the Application Recovery CD. If you have any questions on using the Application Recovery CD, contact Sony Customer Support.


To use the Application Recovery CD(s)

- 1** Turn on your notebook. If your notebook is already on, close all applications.
- 2** When the Windows desktop appears, insert the Sony Application Recovery CD in the optical disc drive. The Application Recovery utility loads automatically.
- 3** When the Application Recovery menu appears, select the icon for the application you want to restore and then follow the on-screen instructions to complete the recovery process.

 Your system may include one or two Application Recovery CDs. If you have two Application Recovery CDs, insert the first CD to run the Application Recovery program. You may be prompted to insert the second CD, depending on the application you wish to restore.

Using the Driver Recovery CD

The Driver Recovery CD utility enables you to reinstall individual drivers if they become corrupted or are accidentally erased. You can reinstall an individual driver to correct a problem that you are experiencing with your computer, hardware, or software application. VAIO Support Agent uses a vault feature on the Driver Recovery CD(s) to repair software applications.

 You must be in Windows to run the Driver Recovery CD utility.

To use the Driver Recovery CD(s)

- 1 Turn on your notebook. If your notebook is already on, close all applications.
- 2 When the Windows desktop appears, insert the Driver Recovery CD in the optical drive. Use My Computer or Windows Explorer to view the contents of the Driver Recovery CD. Select the appropriate driver.

To repair software applications using VAIO Support Agent

The Driver Recovery CD utility has an information vault that contains the original characteristics for the preinstalled software applications that are protected by VAIO Support Agent. See “VAIO Support Agent” for instructions on how to fix your software problems.

Using the System Recovery CD(s)



This CD restores your notebook to its original state, so user data and applications will be lost.

You can use the System Recovery CD(s) to reinstall the operating system and software titles that shipped with your notebook if they become corrupted or erased. You may not need to reinstall the entire contents of your hard drive. If you experience a problem with your notebook, reinstalling an individual device driver or software title may correct the problem. Use the Application Recovery CD(s) to reinstall individual applications or use the Driver Recovery CD(s) to reinstall device drivers. See “Using the Application Recovery CD(s)” to reinstall individual applications or see “Using the Driver Recovery CD” for more information.

The System Recovery CD contains a backup copy of all the software originally installed on your hard disk drive. **It can be used only to recover the hard disk of the notebook you purchased.**

The System Recovery utility gives you Full Restore with Format. That is, it formats the hard disk drive, then restores all the original software.

Full Restore with Format removes all the information on the hard disk drive. You will lose any software you have installed and any other files you have created since you started to use your notebook. This means you will have to reinstall any applications that were not included with the notebook when you purchased it. If you have any questions on using the System Recovery CD, contact Sony Customer Support.


To use the System Recovery CD(s)

- 1 Insert the Sony System Recovery CD in the optical disc drive.
- 2 Shut down your notebook as described in the “Shutting Down Your Notebook” section of the printed Quick Start.
- 3 Wait four seconds and turn on your notebook.
- 4 Click OK to signify you have read and accept the Microsoft End-User License Agreement.
- 5 When the System Recovery menu appears, follow the on-screen instructions to complete the recovery process.

If your notebook does not start from the Recovery CD

- 1 Press the power button and hold it for more than four seconds to turn off the notebook.
- 2 Turn on the notebook. When the Sony logo is displayed, press the F2 key. The BIOS setup menu screen appears.
- 3 Press the arrow keys to select the Exit menu.
- 4 Press the arrow keys to select “Get Default Values” and then press the Enter key. The message “Load default configuration now?” appears.
- 5 Check that “Yes” is selected, then press the Enter key.

- 6 Press the arrow keys to select “Exit” (Save Changes) and then press the Enter key. The message “Save configuration changes and exit now?” appears.
- 7 Check that “Yes” is selected, then press Enter. The notebook restarts from the Recovery CD.

 Your system may include one or two System Recovery CD(s). If you have two System Recovery CD(s), insert the first CD to run the System Recovery program. You are prompted to insert the second CD once the information from the first CD has been installed.

The recovery process takes from 30 to 60 minutes to complete.

After recovering your system using the System Recovery CD, you may be prompted to insert your Application Recovery CD after restarting Windows. Insert the Application Recovery CD to automatically complete recovery of your system.

This section describes how to solve common problems you may encounter when using your notebook. Many problems have simple solutions, so try these suggestions before you contact Sony PC Support (<http://www.sony.com/pcsupport>).

Troubleshooting your notebook


My notebook does not start.

- ❑ Check that the notebook is plugged into a power source and that it is turned on. Check that the power indicator on the front panel of the notebook indicates that the power is on.
- ❑ Check that the battery packs are inserted properly and that they are charged.
- ❑ If you have connected an external, optional floppy disk drive, make sure there is no floppy disk in the floppy disk drive.
- ❑ Confirm that the power cord and all cables are connected firmly, as described in the “Connecting a Power Source” section of the printed Quick Start.
- ❑ If you plugged the notebook into a power strip or Uninterruptible Power Supply (UPS), make sure the power strip or UPS is turned on and working.
- ❑ If you are using an external display, check that it is plugged into a power source and turned on. Check that the brightness and contrast controls are adjusted correctly. See the manual that came with your display for details.
- ❑ Condensation may cause the notebook to malfunction. If this occurs, do not use it for at least one hour.
- ❑ Take the battery pack off the notebook, unplug the power cord, plug it in again, then turn on the power.

My notebook starts but a BIOS error appears.

- ❑ When the internal backup battery is low on power, it may not start your system properly. The message, “Press <F1> to resume, <F2> to setup” appears at the bottom of the screen. Follow these steps:
 - 1 Press F2. The BIOS Setup menu appears.

- 2 Set the date (month/day/year). Press Enter.
- 3 Press ↓ to select System Time, then set the time (hour: minute: second). Press Enter.
- 4 Press → to select Exit, then press ↓ to select Get Default Values. The message “Load default configuration now?” appears.
- 5 Select Yes and press Enter.
- 6 Select Exit (Save Changes), and then press Enter. The message “Save Configuration changes and exit now?” appears.
- 7 Select Yes, and then press Enter. The notebook restarts.

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

My notebook starts, but the message “Operating system not found” appears and Windows does not start.

- If you have connected an external, optional floppy disk drive, make sure there is no floppy disk in the floppy disk drive (non-bootable).
- If a non-bootable floppy disk is in a connected floppy disk drive, follow these steps:
 - 1 Turn off the notebook, and then remove the floppy disk.
 - 2 Restart the notebook and confirm that Windows starts properly.
- If Windows still does not start, follow the steps below to initialize the BIOS:
 - 1 Turn off the notebook.
 - 2 Remove any peripheral devices connected to the notebook.
 - 3 Turn the notebook back on.
 - 4 Press the F2 key when the Sony logo appears. The BIOS setup menu screen appears.
 - 5 Press the arrow keys to select the Exit menu.
 - 6 Press the arrow keys to select “Get Default Values” and then press Enter. The message “Load default configuration now?” appears.
 - 7 Select Yes, then press Enter.

- 8 Use the directional arrow keys to select “Exit” (Save Changes), and then press Enter. The message “Save configuration changes and exit now?” appears.
- 9 Select Yes, then press Enter. The notebook restarts.

If your notebook continues to display the message “Operating system not found,” and Windows does not start, use your supplied System Recovery CD to restore the software titles shipped with your notebook. See “Using the System Recovery CD(s)” for more information.



The System Recovery CD restores your notebook to its original state, so user data and applications will be lost.

My notebook stops responding or does not shut down.

It is best to shut down your notebook using the Shut Down command on the Windows Start menu. Using other methods, including those listed here, may result in loss of unsaved data.

- ❑ Try restarting the notebook. On the Windows taskbar, click the Start button, click Shut Down, and then click Restart.
- ❑ If you cannot restart as described in the preceding step, you can restart the notebook by pressing Ctrl+Alt+Delete simultaneously and clicking Shut Down on the Windows Security screen.
- ❑ If the previous step does not work, press and hold the power button for at least four seconds. This turns off the power.
- ❑ If your notebook stops responding while playing a CD or DVD, stop the CD/DVD, and restart the notebook by pressing Ctrl+Alt+Delete simultaneously and clicking Shut Down on the Windows Security screen.
- ❑ Unplug the notebook from the AC adapter and remove the battery pack from your notebook.




Pressing Ctrl+Alt+Delete simultaneously or turning off the notebook with the power switch may result in data loss in files that are currently open.

The power management setting is not responding.

Your notebook’s operating system may become unstable if it is interrupted or if you attempt to make changes before the notebook completely enters a lower power state, such as Hibernate.

- ❑ To restore the notebook to its normal operating stability:
 - 1 Close all open applications.
 - 2 Restart the notebook by pressing Ctrl+Alt+Delete simultaneously and selecting Restart from the drop-down list.

 If this procedure does not work, press and hold the power button for four seconds or longer to shut down the notebook.

The sound of my notebook's fan is too loud.

Use the PowerPanel utility to change the Thermal Control Strategy setting to Quiet. This setting slows down the CPU speed. See PowerPanel Help for more information.

Troubleshooting the LCD screen

My LCD screen is blank.

- ❑ Check that the notebook is plugged into a power source and that it is turned on.
- ❑ Check that the power indicator on the notebook is on.
- ❑ Check that the battery pack is inserted properly and that it is charged.
- ❑ The notebook may be in LCD (Video) Standby mode. Press any key to activate the screen.
- ❑ The display mode may be set to external display mode. Press and hold the Fn key while pressing F7 several times.

My LCD screen continues to show the previous screen.

Press the Windows key and D twice to refresh the screen.

The image on my connected external display is not centered or sized properly.

Use the controls on your external display to adjust the image. See the manual that came with your display for more information.

I want to change the video resolution of my display.

Follow this procedure to change the video resolution of your display.

- ❑ Click Start, point to Settings, point to Control Panel, and then click the Display icon.

The Display Properties dialog box appears.

- ❑ Click on the Settings tab.
- ❑ Move the Screen Area slider to change your video resolution.

I cannot switch the LCD display to TV, and vice versa.

Remove the DVD if it is inserted in the optical drive.

Troubleshooting the mouse and touchpad

My mouse does not work.

- ❑ If you are using an external mouse, check that the mouse is plugged into the mouse connector. See “Connecting a PS/2 External Mouse or Keyboard” for more information.
- ❑ If you are using an optional Sony USB mouse PCGA-UMS1 series, check that the mouse is plugged into the USB port.
- ❑ If you are still experiencing problems, use your supplied Driver Recovery CD to reinstall the mouse drivers. See “Using the Driver Recovery CD” for more information.

My touchpad does not work properly.

- ❑ You may have disabled the touchpad without connecting a mouse to the notebook. To enable the touchpad:
 - 1 Press the Windows key and use the arrow keys to select Programs, and then Sony Notebook Setup.
 - 2 Select the Touchpad tab using the arrow keys.
 - 3 Select Enable Touchpad, and then press Enter.

(Please check the instructions that came with your notebook.)
- ❑ You must restart the notebook to make the touchpad work again.
- ❑ If your touchpad is interpreting a single tap as a double-click, you must adjust the button assignments. Follow these steps:

- 1 Press the Windows key and use the arrow keys to select Control Panel, and then Mouse.
 - 2 Change the button assignments in the Mouse Properties dialog box. (One of the buttons is assigned to the double-click action.)
- ❑ If you are still experiencing problems, ensure that another mouse was not installed.
 - ❑ You may need to use your Driver Recovery CD to reinstall the mouse drivers. See “Using the Driver Recovery CD” for more information.

The pointer does not move while using the Touchpad or Mouse.

- ❑ Press the Windows key and use the arrow keys to select Shut Down. When the Shut Down Windows dialog box appears, press Enter.
- ❑ If you cannot turn off your notebook as described in the step above, press Ctrl+Alt+Delete simultaneously and click Shut Down on the Windows® Security screen to restart the notebook.
- ❑ If you cannot restart your notebook as described in the step above, press and hold the power button for more than four seconds to turn off the notebook.
- ❑ If the pointer does not move while playing a disc, press Ctrl+Alt+Delete simultaneously to stop playback and restart the notebook.
- ❑ If you are still experiencing problems, ensure that another mouse was not installed.
- ❑ You may need to use your supplied Driver Recovery CD to reinstall the touchpad or mouse drivers. See “Using the Driver Recovery CD” for more information.

Troubleshooting drives, PC Cards and peripheral devices

My floppy disk drive (optional) cannot write to a floppy disk.

- ❑ Check that the optional, external floppy disk drive is properly connected to your notebook. See “Connecting an External Floppy Disk Drive” for more information.
- ❑ If the floppy disk is write-protected, disable the write-protect feature or use a floppy disk that is not write-protected.

My optical disc drive is not playing my CD or DVD properly.

- ❑ Check that the label of the disc is facing up.
- ❑ If the disc requires software, check that the software is installed according to the manufacturer's instructions.
- ❑ A dirty or damaged disc may cause the notebook to stop responding while it tries to read the disc. If necessary, restart the notebook, remove the disc, and then check it for dirt or damage.
- ❑ If you see video but can not hear audio, check all of the following:
 - ❑ Check that your optical drive does not have the mute setting enabled.
 - ❑ Check the volume setting in the audio mixer.
 - ❑ If you are using external speakers, check the volume settings, and then check the connections between your external speakers and the notebook.
 - ❑ Click Start, then Control Panel, then System, and then Device Manager. Check that the correct drivers are installed properly.
- ❑ Do not use adhesive labels to identify the CD. The label may come off while the disc is in use in the optical drive and cause the drive to malfunction.
- ❑ If a region code warning appears when you try to use your optical drive, it may be that the DVD you are trying to play is incompatible with the optical drive. Check the region code listing on the DVD packaging.
- ❑ Condensation may cause the notebook to malfunction. If this occurs, do not use it for at least one hour.

My optical drive tray does not open.

- ❑ Check that the notebook is turned on.
- ❑ Press the Eject button on the optical drive.
- ❑ If the Eject button does not work, open the tray by inserting a sharp, pointed object (such as a paper clip) in the hole to the right of the Eject button.

I cannot use Digital Video (DV) devices. The message "DV equipment seems to be disconnected or turned off" appears.

- ❑ Check that the DV device is turned on and that the cables are properly connected.

- ❑ If you are using multiple i.LINK^{®*} devices, the combination or order of the devices may be causing the problem. In this case, turn off your notebook and all connected devices. Disconnect the devices that are not in use. Check the connections for each device, then restart your notebook.

My PC Card is not working.

- ❑ Check that the PC Card is installed properly.
- ❑ Check that the PC Card is compatible with Microsoft[®] Windows[®].
- ❑ Use the Sony Notebook Setup utility to disable devices you are not currently using.
- ❑ If you are using two PC Cards, use the Sony Notebook Setup utility to disable the devices you are not currently using.
- ❑ Check that any necessary drivers were installed properly. See “Using Your Recovery CDs” for more information on installing the drivers.

Troubleshooting software

My software program stops responding or crashes.

Contact the software publisher or designated provider for technical support. Refer to “Application, System, and Driver Recovery CDs” for more information.

When I click an application icon, the message “You must insert the application CD into your optical drive” appears and the software does not start.

- ❑ Some titles require specific files that are located on the application CD. Insert the disc and try starting the program again.
- ❑ Make sure you place the CD in the tray with the label side facing up.

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

I cannot use the DVgate software.

If your notebook is using the Ultimate Battery Life profile for its power saving mode, you cannot use DVgate or Smart Connect software. Please select another profile. Preferably, connect your notebook to AC power when using these features.

Troubleshooting the modem

My modem does not work.

- ❑ Check that the phone line is plugged into the line jack. See “Connecting a Phone Line” for more information.
- ❑ Check that the phone line is working. You can check the line by plugging in an ordinary phone and listening for a dial tone.
- ❑ Check that the phone number the program is dialing is correct.
- ❑ Check that the software you are using is compatible with the notebook’s modem. (All preinstalled Sony programs are compatible.)
- ❑ If you are still experiencing problems, use your supplied Driver Recovery CD to reinstall the modem drivers. See “Using the Driver Recovery CD” for more information.

My modem connection is slow.

Your notebook is equipped with a V.90/K56flex-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), check the following:

- ❑ Ask your phone company to check that your phone line is free from any line noise.
- ❑ If your problem is fax-related, check that 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 Internet Service Provider, check that the ISP is not experiencing technical problems.
- ❑ If you have a second phone line available, try connecting the modem to that line.

Troubleshooting audio

My speakers make no sound.

- ❑ If the built-in speakers are turned off, press Fn+F3 to turn on the speakers. You can also turn on the speakers using the center Jog Dial control.
- ❑ If the speaker volume is turned to the minimum, press Fn+F4, and then press ↓ or → to increase the volume or you can use the center Jog Dial™ control to control the volume.
- ❑ If nothing is displayed when you press Fn+F3 or Fn+F4.
 - 1 Double-click System in Control Panel.
 - 2 Set the sound device to enable in Device Manager.
- ❑ If your notebook is powered by batteries, check that the battery packs are inserted properly and that they are charged.
- ❑ If you are using an application that has its own volume control, check that the volume is turned up.
- ❑ Check the volume controls in the Windows® taskbar.
- ❑ If you connect external speakers, check that the speakers are properly connected and the volume is turned up. If the speakers have a mute button, make sure it is off. If the speakers are powered by batteries, check that the batteries are inserted properly and that they are charged.
- ❑ If you have connected an audio cable to the Headphone jack, disconnect the cable.
- ❑ If you are still experiencing problems, use the supplied Driver Recovery CD to reinstall the drivers. See “Using the Driver Recovery CD” for more information.

My microphone does not work.

If you are using an external microphone, check that the microphone is plugged into the Microphone jack. See “Connecting an External Microphone” for more information.

Troubleshooting the printer

I cannot print.

- ❑ The default setting for the printer port mode is correct for most printers. If you cannot print, try changing the printer port mode. In Sony Notebook Setup, select the Printer tab. If the printer port mode is set to ECP, change it to bi-directional. If the printer port mode is set to bi-directional, change it to ECP. See “Displaying the Sony Notebook Setup Screen” for details on using Sony Notebook Setup.
- ❑ Your connected printer may not function after the notebook resumes from a power saving mode. If this occurs, follow these steps to reset the printer connection:
 - ❑ Double-click the My Computer icon on the desktop, then double-click on the Control Panel folder.
 - ❑ Double-click on the Printers folder.
 - ❑ Right-click the printer icon that is not functioning, and select Properties to access the Properties window.
 - ❑ Click OK to close the Properties window. The printer should function properly.

Getting Help

Sony provides you with several support resources to answer questions about your VAIO® Notebook or the preinstalled software. Refer to these resources in the order they are listed.

Support Options

If you have questions about your notebook or the preinstalled software, refer to the following sources for answers in the sequence listed below.

1 **VAIO® Notebook User Guide**

This online VAIO® Notebook User Guide and printed VAIO® Notebook Quick Start provide you with information on how to maximize your notebook capabilities and solve common problems. To access the online user guide, click Start on the Windows® taskbar, select Help Center and VAIO Documentation. The quick start is supplied with your notebook.

2 **Software Manuals and Online Help Files**

The software preinstalled on your notebook may come with an online manual. These manuals are stored on the hard disk drive as online help files. You can find the help files from the Help menu under the specific software application. Some software applications may come with a printed manual.

3 **Operating System Online Support**

Your notebook comes preinstalled with Microsoft® Windows®. For operating system support, you can access Microsoft® customer support at <http://support.microsoft.com/directory/>.

4 **VAIO Support Agent**

You can find VAIO Support Agent from the Windows desktop. Using advanced diagnostic technology, Sony's VAIO Support Agent runs scheduled protections of your applications, network settings, and other important software settings. When your software is protected, you can use VAIO Support Agent to repair software problems by restoring your software to any of the previously protected states.

5 **Sony PC Support**

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

6 **Sony Fax-on-Demand**

This service, which requires a fax machine or your fax software, provides answers to commonly asked questions. You can use this automated service to request a list of available topics, then select the topics that you want to receive. To contact the Sony fax-on-demand service, call: 1-888-4SONYPC (1-888-476-6972).

7 ***Sony Customer Support***

Software support is available free of charge for 90 days after the original date of purchase. You can call and speak with a Sony Customer Support Representative without using your notebook by calling: 1-888-4SONYPC (1-888-476-6972).

VAIO Support Agent

VAIO Support Agent helps you repair your own software problems without the assistance of a support analyst. VAIO Support Agent's advanced diagnostic technology identifies and tracks characteristics of your software applications and basic network settings. These diagnostics protect and store information in a retrievable format that enables you to restore your software to a previous working state. Sony has identified the software items that are protected by the VAIO Support Agent utility.

VAIO Support Agent has three features to help you fix your software problems: Quick Fix Wizard, Common Solutions, and Support Central. This section briefly describes these three features, and the automatic update capability of the VAIO Support Agent.

VAIO Support Agent main window




Using the Quick Fix Wizard

The VAIO Support Agent records and maintains a history of the VAIO Support Agent protected applications by taking a “snapshot” of the application at regular, timed intervals and storing it for future use. Should a problem develop with one of the protected applications, you can use the Quick Fix Wizard feature to retrieve the date/time (snapshot) that was recorded when the application worked correctly. The Quick Fix Wizard repairs the protected application files without altering the data files you have created using the application.

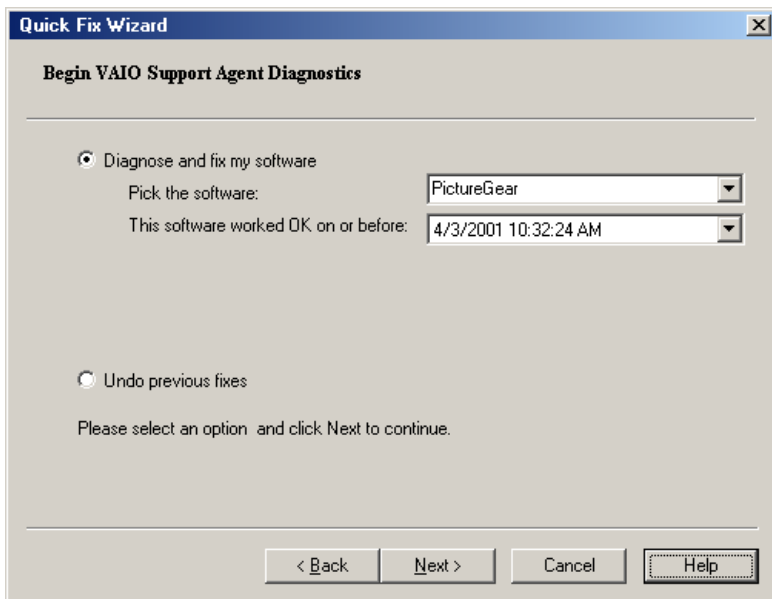
To use the Quick Fix Wizard, follow these steps:

- 1 From the VAIO Support Agent main window, click the Quick Fix Wizard button. The Welcome window appears.
- 2 Click Next. The “Quick Fix Wizard: Begin VAIO Support Agent Diagnostics” dialog box appears.
- 3 Select the “Diagnose and fix my software” option.
- 4 Select the software you wish to repair from the drop-down list.

 To view a list of software applications protected by VAIO Support Agent, click on the “Pick the software:” drop-down list.

- 5 Next, select a date/time from the drop-down list that corresponds to the last time when the software worked properly.
- 6 Click Next to continue. Follow the instructions on the screen.

Quick Fix Wizard: Begin VAIO Support Agent Diagnostics dialog box

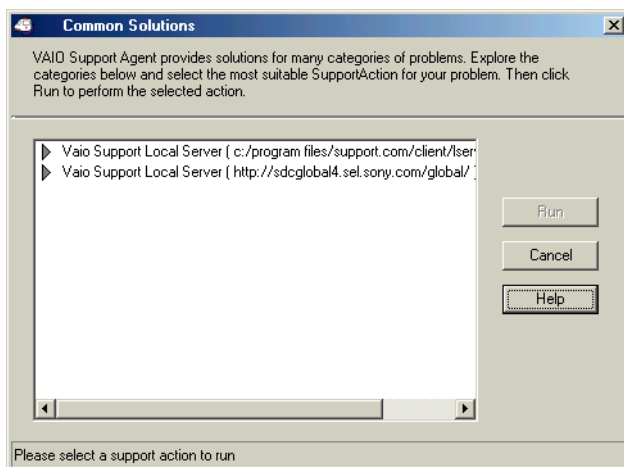


Using Common Solutions

Common Solutions offers automated, One-Click Fixes to repair common software problems. These solutions can integrate information such as knowledge base articles and Frequently Asked Questions (FAQs). You can run One-Click Fixes directly from VAIO Support Agent or from a Web browser.

- 1 Click the Common Solutions button. The Common Solutions dialog box appears.
- 2 Double-click on the desired category to expand and view available SupportActions.
 - ❑ VAIO Support Local Server (C:/program files/support.com...) provides a list of SupportActions available on your computer's hard disk drive.
 - ❑ VAIO Support Local Server (<http://sdcglobal4.sel.sony.com/>...) provides a list of SupportActions available from the Internet.

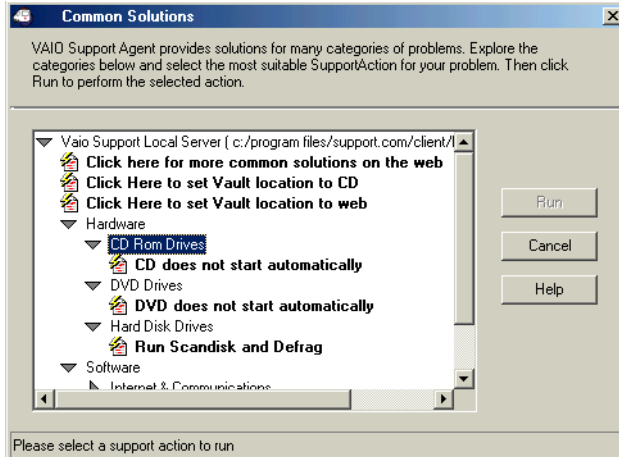
Common Solutions dialog box (1st level)



 Connect to the Internet before attempting to view the category, “Vaio Support Local Server (<http://sdcglobal4.sel.sony.com/>...)”. This category is unavailable without an Internet connection.

- Click the resize arrows next to the SupportAction categories to expand or collapse the categories.

Common Solutions dialog box (2nd level)



- Select the appropriate SupportAction from the list.
- Click Run or double-click the desired SupportAction. The available SupportActions are shown in bold type.

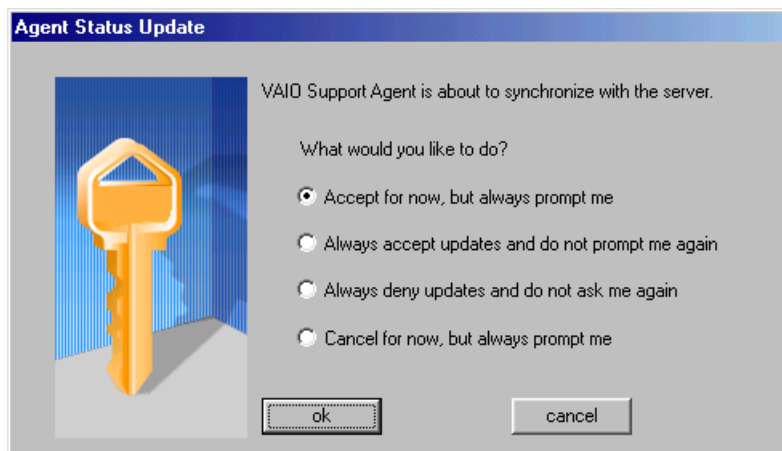
 You cannot undo One-Click Fixes.

About Automatic Updates

The VAIO Support Agent is dormant as a background process. Every 24 hours, the Agent self-activates to contact the Sony Support Server to check for new updates or fixes needed for your system. This updating action only occurs while you are connected to the Internet and when more than 24 hours has passed since the last update.

Each time the VAIO Support Agent prepares to check for updates, the Agent Status Update dialog box appears and asks you to respond, unless you have previously selected the option, “Always accept updates and do not prompt me again.”

Agent Status Update





You can choose from four response options:

- ☐ Give the Agent your permission to contact the Sony Support Server for any updates or fixes that are available specifically for your computer. The Agent continues to prompt you for your permission to retrieve updates.
- ☐ Give the Agent your permission to contact the Sony Support Server for any updates or fixes that are available specifically for your computer. The Agent automatically retrieves updates without further prompting.
- ☐ Deny the Agent your permission to contact the Sony Support Server for any updates or fixes. The Agent discontinues any update retrieval and does not prompt again for your permission to update.
- ☐ Deny the Agent your permission to contact the Sony Support Server for the current update or fix. The Agent discontinues the current update retrieval, but prompts again for your permission for the next scheduled update.

Update Notification

Once you have granted permission for the system to check for updates or fixes, the Agent contacts the Sony Support Server. Available updates or fixes may be displayed to you in one of two ways. An update or fix may be displayed in a window with an explanation and instructions to follow. Others will cause the

ambulance icon  on your task tray to blink. You should always check the ambulance icon in the task tray after the system checks for updates. If the icon is blinking, double-click the ambulance icon to view the update.

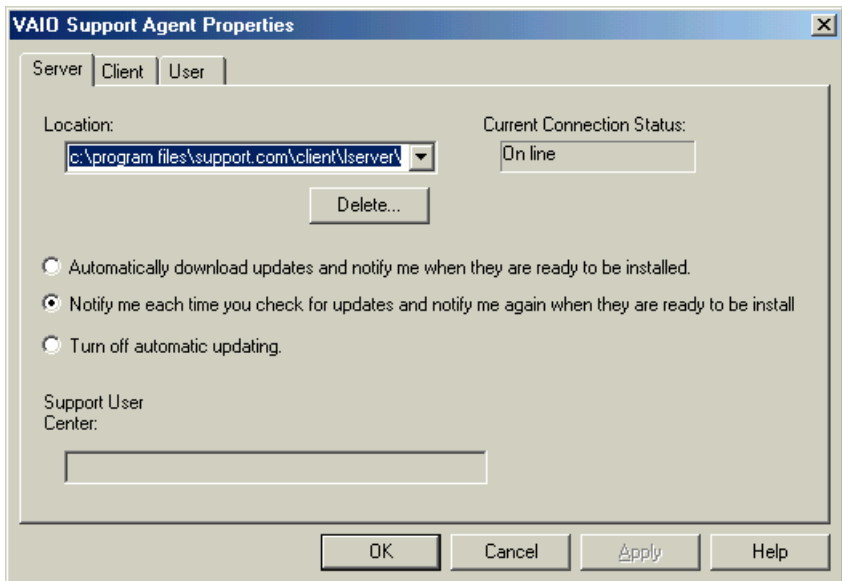
 When clicking on the flashing ambulance icon, you must be connected to the Internet to receive an update.

VAIO Support Agent Properties

To control the VAIO Support Agent automatic update feature, follow these steps:

- 1 In the VAIO Support Agent main screen, select Tools, then select Properties. The VAIO Support Agent Properties dialog box appears.
- 2 Select one of three options to customize the automatic update feature.
- 3 Click OK.


VAIO Support Agent Properties window



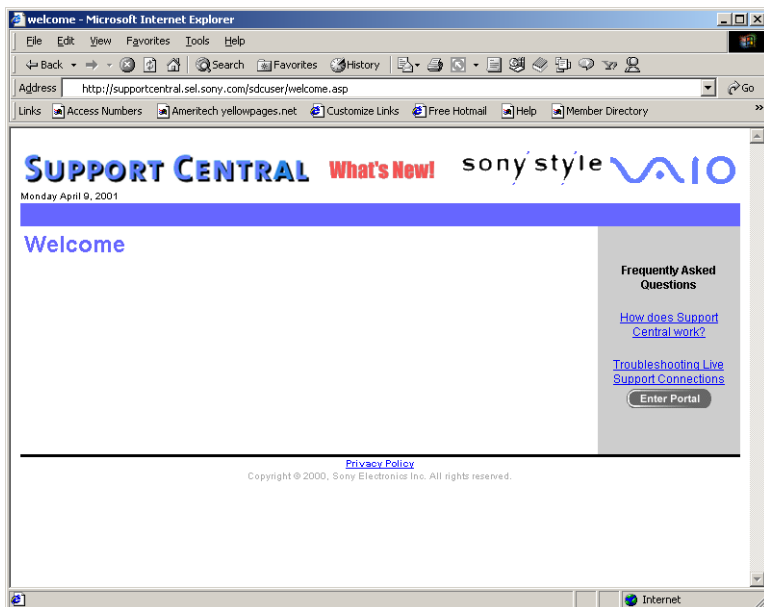
Using Support Central

The Support Central feature uses Internet resources to help you fix your software. Support Central searches the Internet for answers to your questions, additional information from knowledge base systems, and the latest software updates for your protected software. Support Central also lets you contact live support agents for additional help.


- 1 Connect to the Internet.
- 2 From the VAIO Support Agent main window, click Support Central. The Support Central Welcome page appears.

 You must have Internet access to use Support Central.

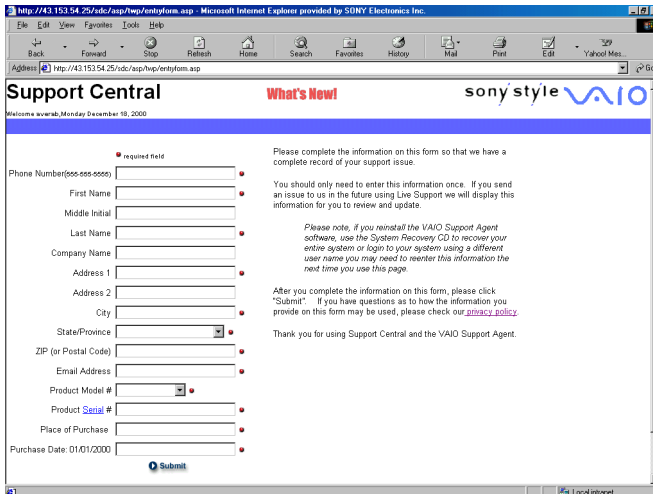
Support Central: Welcome page



- 3 Click Enter Portal to begin using Support Central. First-time users will be asked to register with Support Central.

 Support Central retains your registration information, so you are only required to register once. If you log on to your computer with a different user name or have recovered your system using the System Recovery CDs, Support Central may require you to register again.

Support Central: Registration page



http://43.153.54.25/idx.asp/req/entryform.asp - Microsoft Internet Explorer provided by SONY Electronics Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print ESI Yahoo! Mes...

Address http://43.153.54.25/idx.asp/req/entryform.asp Go

Support Central

What's New!

sony style VAIO

Welcome awwab_Monday December 18, 2000

● required field

Phone Number(000-000-0000)

First Name

Middle Initial

Last Name

Company Name

Address 1

Address 2

City

State/Province

ZIP (or Postal Code)

Email Address

Product Model #

Product [Serial](#) #

Place of Purchase

Purchase Date: 01/01/2000

Please complete the information on this form so that we have a complete record of your support issue.

You should only need to enter this information once. If you send an issue to us in the future using Live Support we will display this information for you to review and update.

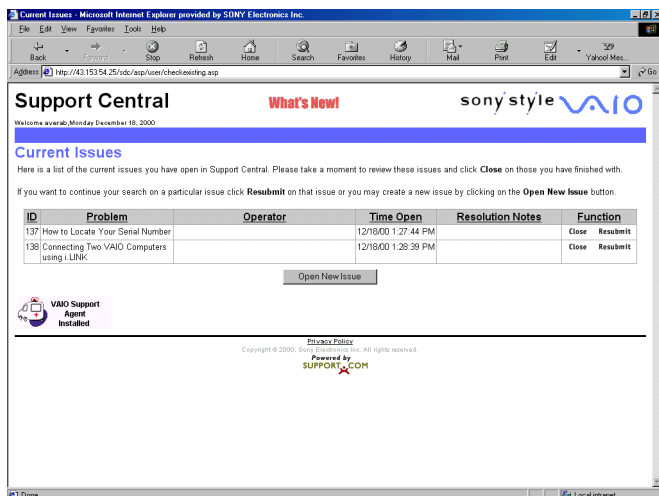
Please note, if you reinstall the VAIO Support Agent software, use the System Recovery CD to recover your entire system or login to your system using a different user name you may need to reenter this information the next time you use this page.

After you complete the information on this form, please click "Submit". If you have questions as to how the information you provide on this form may be used, please check our [privacy policy](#).

Thank you for using Support Central and the VAIO Support Agent.

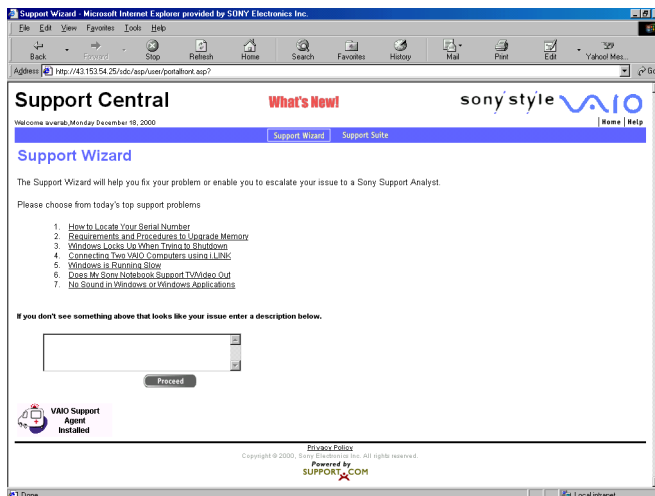
Local intranet

Support Central: Current Issues page



When you log on to Support Central, the Current Issues page displays, enabling you to continue working on your open issues or to close them if you are finished. Support Central has a tracking feature that stores your current issues, enabling you to return and work on them later.

Support Central: Support Wizard page



If you log on to Support Central with a new issue, or if you do not have any open issues, the Support Wizard appears. You can begin searching on the new issues.



You must be connected to the Internet to use Support Central.

Software Support Information

Adobe Acrobat[®] Reader[™] (Adobe Systems, Inc.)

Web site	http://www.adobe.com/
phone	206-675-6126 (fee-based support)
fax	206-628-5737
e-mail	techdocs@adobe.com
hours	M-F, 6 AM - 5 PM (PT)

America Online[®] (America Online, Inc.)

Web site	http://www.aol.com/
phone	800-827-6364
hours	7 days a week, 24 hours a day

CompuServe[®] 2000 (CompuServe Interactive Services, Inc.)

Web site	http://www.compuserve.com/
phone	800-848-8990
hours	M - F, 8 AM - 1AM, Sat - Sun, 10 AM - 10PM

Easy CD Creator[®] (Roxio, Inc.)

Web site(s)	http://www.roxio.com/en/support/
phone	408-934-7283
hours	M-F, 6 AM - 5 PM, PT

Netscape Communicator[®] (Netscape Communications Corporation)

Web site	http://help.netscape.com/
phone	888-4SONYPC (888-476-6972)*
hours	7 days a week, 24 hours a day

* Support from 1-888-4SONYPC is free of charge for 90 days after the original date of purchase.

Norton AntiVirus[™] (Symantec Corporation)

Web site	http://www.symantec.com/techsupp/
phone	800-927-3991; 900-646-0007*
hours	M - F, 6 AM - 5 PM (PT)

* Support from 1-800-927-3991 is fee-based per incident. Support from 1-900-646-0007 is fee-based per minute. Online support is free of charge.

Prodigy Internet[®] (Prodigy Communications Corporation)

Web site	http://www.prodigy.com/
phone	800-213-0992
hours	7 AM - 3 AM (ET)

Quicken[®] 2001 Basic (Intuit, Inc.)

Web site	http://www.intuit.com/support/
phone	900-555-4688
hours	7 days a week, 24 hours a day

QuickTime[™] (Apple Computer Inc.)

Web site	http://www.apple.com/
phone	512-674-8700
hours	7 days a week, 6 AM - 6 PM (PT)

RealJukebox[®], RealPlayer[®], RealProducer[®] G2 (RealNetworks Inc.)

Web site	http://service.real.com/rjoptions.html
e-mail	http://service.real.com/help/call.html (online form)

Sony Applications (Sony Electronics Inc.)

Web site	http://www.sony.com/pcsupport/
phone	888-4SONYPC (888-476-6972)*
hours	7 days a week, 24 hours a day

* Support from 1-888-4SONYPC is free of charge for 90 days after the original date of purchase.

Sound Forge[®] XP (Sonic Foundry, Inc.)

Web site	http://www.sonicfoundry.com
phone	608-256-5555
fax	608-256-7300
e-mail	support@sonicfoundry.com
hours	M-F, 8 AM - 7 PM CT

Windows® Operating System, Word (Microsoft Corporation)

Web site	http://www.sony.com/pcsupport/
phone	888-4SONYPC (888-476-6972)*
hours	7 days a week, 24 hours a day

* Support from 1-888-4SONYPC is free of charge for 90 days after the original date of purchase.

WinDVD® (InterVideo, Inc.)

Web site	http://www.intervideo.com/jsp/Support.jsp
phone	510-651-0888
e-mail	support@intervideo.com

Sony Service Center

For the Sony Service Center nearest you, call 1-888-4SONYPC (1-888-476-6972) or find Sony Customer Service on the Web at <http://www.sony.com/pcsupport>.

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