

SONY®

***VAIO Digital Studio™
Computer User Guide***

PCV-RX470DS/PCV-RX480DS

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Owner's Record

The model number and serial number are located on the back of your Sony VAIO computer. Record the serial number in the space provided here. Refer to the model and serial numbers when you call your Sony Service Center.

Model Number: PCV-RX470DS/
PCV-RX480DS

Serial Number: _____

Safety Information and Caution

DVD Laser Diode Properties (PCV-RX470DS/PCV-RX480DS)

Laser Output	0.4mW(DVD)
	0.14mW (CD)
Wave Length	650-655nm (DVD)
	785nm (CD)

CD-RW Laser Diode Properties (PCV-RX470DS/PCV-RX480DS)

Laser Output	1.0mW (Read)
	43.5mW (Write)
Wave Length	780–787nm

- ☐ To prevent fire or shock hazard, do not expose your desktop to rain or moisture. To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.
- ☐ Never install modem or telephone wiring during a lightning storm.
- ☐ Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- ☐ Never touch uninsulated telephone wire or terminals unless the telephone line has been disconnected at the network interface.
- ☐ Use caution when installing or modifying telephone lines.
- ☐ Avoid using the modem during an electrical storm.
- ☐ Do not use the modem or a telephone to report a gas leak in the vicinity of the leak.

- ☐ The socket outlet shall be installed near the equipment and shall be easily accessible.



To change the backup battery, please contact your nearest Sony Service Center.



Caution—The use of optical instruments with this product will increase eye hazard. As the laser beam used in this product is harmful to the eyes, do not attempt to disassemble the drive cabinet. Refer servicing to qualified personnel only.



Danger—Visible and invisible laser radiation when open. Avoid direct exposure to beam.



For CD-RW: Danger—Invisible laser radiation when open. Avoid direct exposure to beam.



Caution: For ADSL, HomePNA and V.90 modem models; to reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

- ☐ Pour prévenir tout risque d'incendie ou d'électrocution, garder cet appareil à l'abri de la pluie et de l'humidité.
- ☐ Pour prévenir tout risque d'électrocution, ne pas ouvrir le châssis de cet appareil et ne confier son entretien qu'à une personne qualifiée.
- ☐ Ne jamais effectuer l'installation de fil modem ou téléphone durant un orage électrique.

- ❑ Ne jamais effectuer l'installation d'une prise téléphonique dans un endroit mouillé à moins que la prise soit conçue à cet effet.
- ❑ Ne jamais toucher un fil téléphonique à découvert ou un terminal à moins que la ligne téléphonique n'ait été débranché de l'interface réseau.
- ❑ Soyez très prudent lorsque vous installez ou modifiez les lignes téléphoniques.
- ❑ Évitez d'utiliser le modem durant un orage électrique.
- ❑ N'utilisez pas le modem ni le téléphone pour prévenir d'une fuite de gaz vous êtes près de la fuite.
- ❑ L'appareil doit être le plus près possible d'une prise murale pour en faciliter l'accès.



Pour changer la pile de rechange, veuillez contacter votre centre de service Sony le plus près.



Avertissement - L'utilisation d'instruments optiques avec ce produit augmente les risques pour les yeux. Puisque le faisceau laser utilisé dans ce produit est dommageable pour les yeux, ne tentez pas de désassembler le boîtier. Adressez-vous à un agent de service qualifié.



Danger : Radiation laser visible et invisible si ouvert. Évitez l'exposition directe au faisceau.



Pour les CD-RW : Danger : Radiation laser visible et invisible si ouvert. Évitez l'exposition directe au faisceau.



Attention : Pour ADSL, HomePNA, et V.90 modele modem; afin de réduire les risques d'incendie, n'utilisez qu'un cordon de communication NO. 26 AWG ou plus gros.

For questions regarding your product or for the Sony Service Center nearest you, call 1-888-476-6972 in the United States or 1-800-961-7669 in Canada.

Sony Customer Support can be reached at <http://www.sony.com/pcsupport>.

Regulatory Information

Declaration of Conformity

Trade Name: SONY

Model No.: PCV-RX470DS
PCV-RX480DS

Responsible Party: Sony Electronics Inc.

Address: 680 Kinderkamack Rd
Oradell, NJ 07649

Telephone: 201-930-6972

This phone number is for FCC-related matters only.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the

interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving antenna.
- ☐ Increase the separation between the equipment and the receiver.
- ☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ☐ Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Only peripherals (computer input/output devices, terminals, printers, etc.) that comply with FCC Class B limits may be attached to this computer product. Operation with noncompliant peripherals is likely to result in interference to radio and television reception.

All cables used to connect peripherals must be shielded and grounded. Operation with cables, connected to peripherals, that are not shielded and grounded, may result in interference to radio and television reception.

FCC Part 68

This equipment complies with Part 68 of the FCC rules. The FCC Ringer Equivalence Number (REN) for this equipment is 0.79B. If requested, this information must be provided to the telephone company.

This modem uses the USOC RJ-11 telephone jack.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the

number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

If the terminal equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operations of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this modem, for repair or warranty information, please contact 1-888-4SONY-PC, or write to the Sony Customer Information Center, 12451 Gateway Blvd., Fort Myers, FL 33913. If the trouble is causing harm to the telephone network, the telephone company may request that you remove the equipment from the network until the problem is resolved.

Repair of this equipment should be made only by a Sony Service Center or Sony authorized agent. For the Sony Service Center nearest you, call 1-888-4SONYPC (1-888-476-6972).

This equipment cannot be used on public coin service provided by the telephone company. Connection to Party Line Service is subject to state and possible provincial tariffs. (Contact the state or provincial utility service commission, public service commission, or corporation commission for information.)

Telephone Consumer Protection Act of 1991 (United States)

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone facsimile machine unless such message clearly contains, in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business, other entity, or individual sending the message, and the telephone number of the sending machine or such business, other entity, or individual.

In order to program this information into your facsimile machine, see your fax software documentation.

Telephone Consumer Guidelines (Canada)

Please refer to your telephone directory under 'Privacy Issues' and/or 'Terms of Service.' For more detailed information, please contact:

CRTC


Terrasses de la Chaudière, Tour centrale
1 promenade du Portage, 5 étage Hull PQ K1A 0N2.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

DISPOSAL OF LITHIUM BATTERY

You can return your unwanted lithium batteries to your nearest Sony Service Center or Factory Service Center.

 In some areas the disposal of lithium batteries in household or business trash may be prohibited.

For the Sony Service Center nearest you, call 1-888-476-6972 in the United States or 1-800-961-7669 in Canada.



Do not handle damaged or leaking lithium batteries.



Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.



The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 212°F (100°C), or incinerate. Dispose of used battery promptly. Keep away from children.



Ne pas manipuler les batteries au lithium qui fuient ou sont endommagées.



Une batterie non conforme présente un danger d'explosion. La remplacer seulement par une batterie identique ou de type équivalent recommandé par le fabricant. Évacuer les batteries usées selon les directives du fabricant.



La manutention incorrecte du module de batterie de cet appareil présente un risque d'incendie ou de brûlures chimiques. Ne pas démonter, incinérer ou exposer à une température de plus de 100°C. Évacuer promptement la batterie usée. Garder hors de portée des enfants.

INDUSTRY CANADA NOTICE

NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the users satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection.

The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Equipment malfunctions or any repairs or alterations made by the user to this equipment may give the telecommunications company cause to request that the user disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of

devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5. The Ringer Equivalence Number for this equipment is 0.79B.

AVIS DE L'INDUSTRIE CANADA

AVIS: L'étiquette d'Industrie Canada identifie le matériel homologué.

Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales.

Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas.

AVIS: L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface.

La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5. L'indice d'équivalence de la sonnerie de ce matériel est de 0.79B.

Welcome

Thank you for purchasing your Sony VAIO Digital Studio™ computer! Your new computer is a superb blend of high technology and easy-to-use functionality. This User Guide contains information about the applications included with your system, contact information for software vendors, and the specifications for your computer.

Choosing an Ergonomic Location for Your Computer

Before you get started, find the best location for your new computer. Here are some things to consider when planning your workspace:


- ❑ **Stable work surface** — Use a stable work surface large enough to support the computer and other peripheral equipment.
- ❑ **Ventilation** — Leave at least eight inches of space on the left and back sides of your computer to enable proper ventilation.
- ❑ **Placement of the keyboard, mouse, and other input devices** — Place your keyboard, mouse, and other input devices so that your arms and hands are in a relaxed, comfortable position. The keyboard should be directly in front of you. Adjust the level of the keyboard so that your lower arms are parallel to the floor. Keep your wrists in a relaxed position when you are using the keyboard—not angled up or down. Use the palmrest only briefly, for resting. While typing, never use the palmrest or rest your hands on the table. Position the mouse at the same level as the keyboard. Hold the mouse with a relaxed hand, and use your whole arm to move it. Take breaks during sessions with your computer. Excessive use of the mouse or a joystick may strain muscles or tendons.
- ❑ **Furniture and posture** — Sit in a chair with good back support and armrests. Adjust the level of the chair so your feet are flat on the floor. A footrest may make you more comfortable. Sit with relaxed, upright posture—avoid slouching forward or leaning far backward.
- ❑ **Viewing angle of the display** — Position the display 18 to 26 inches directly in front of you, with the top of the screen at or a little below eye

level. Use the display's tilting feature to find the best position. You can reduce eye strain and muscle fatigue by placing the display in the proper position.

- ❑ **Lighting** — Choose a location where windows and lights do not create glare and reflection on the display. Use indirect lighting to avoid bright spots on the display. You can also purchase accessories for your display that help reduce glare. Proper lighting adds to your comfort and work effectiveness.

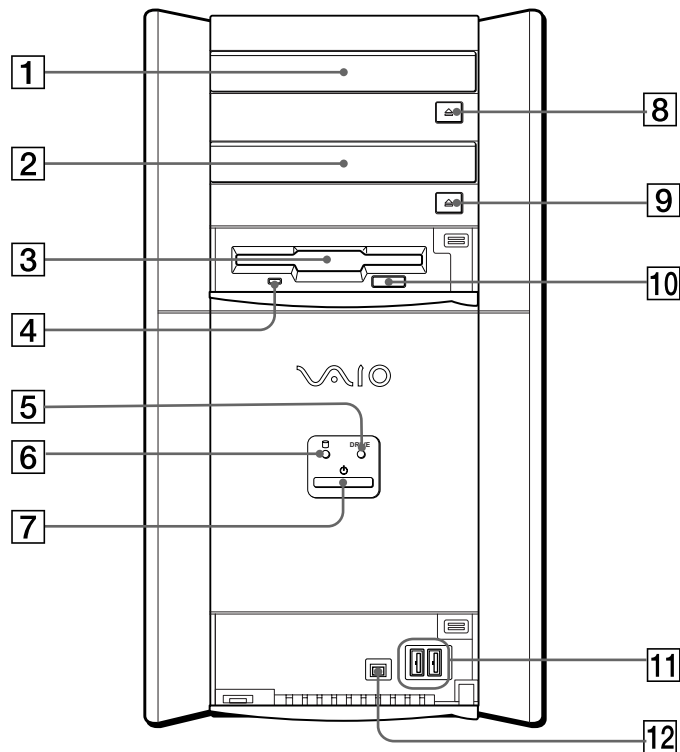
Front Panel Overview

The front panel of your VAIO Digital Studio Computer allows access to the DVD, CD-RW, and floppy disk drives. It also includes Universal Serial Bus (USB) and i.LINK® ports to connect compatible USB devices, digital equipment, or other peripheral devices.

 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.


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.

Front panel (PCV-RX470DS/PCV-RX480DS)



-
- | | |
|----------|---|
| 1 | <i>DVD-ROM drive</i>
Reads data from a DVD or CD. |
| <hr/> | |
| 2 | <i>CD-RW drive</i>
Reads data from a CD and writes data to a CD-R or CD-RW disc. |
| <hr/> | |
| 3 | <i>Floppy disk drive</i>
Reads and writes data from and to a 3.5-inch floppy disk. |
| <hr/> | |
| 4 | <i>Floppy disk drive access indicator light</i>
Lights in green while reading and writing data from and to a floppy disk. |
-

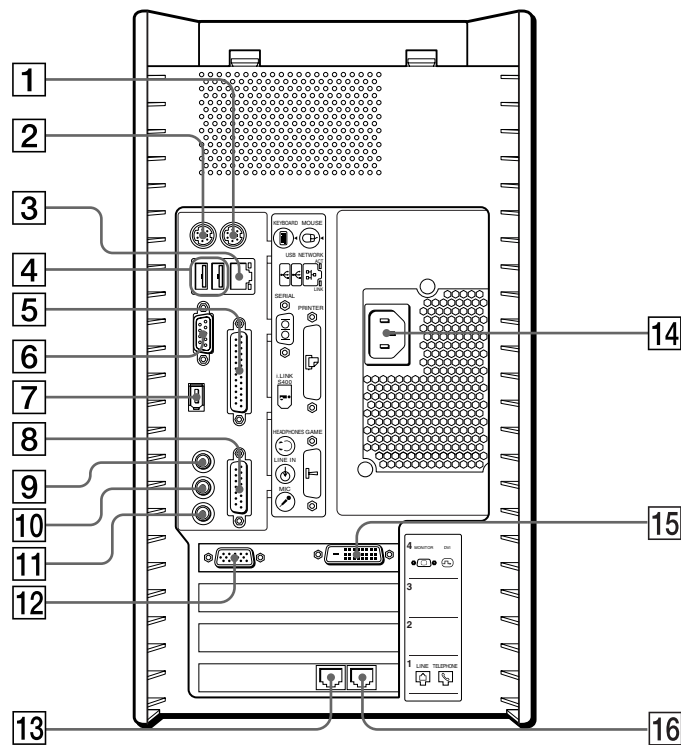
5	<i>DVD-ROM/CD-RW drive access indicator light</i> Lights in amber while reading and writing data from and to the optical drives.
6	<i>Hard disk drive access indicator light</i> Lights in amber while reading and writing data from and to the hard disk.
7	<i>Power switch and indicator light</i> Turns on/off the computer. The indicator light is blue while the power is on and red when the computer is in standby mode.
8	<i>DVD-ROM eject button</i> Ejects a disc from the DVD drive.
9	<i>CD-RW eject button</i> Ejects a disc from the CD-RW drive.
10	<i>Floppy disk eject button</i> Ejects a floppy disk.
11	<i>Universal Serial Bus (USB) port (2)</i> Connection for a compatible USB device.
12	<i>i.LINK 4-pin port (IEEE1394)</i> Connection for a compatible digital device.


 For your convenience, your computer includes USB and i.LINK ports on both the front and back panels. The 4-pin i.LINK port is located on the front panel and the 6-pin i.LINK port is located on the back.

Back Panel Overview


The back panel of your computer contains the ports for supplied and optional accessories. The icons on the back panel locate and identify the ports on your computer.

Back panel (PCV-RX470DS/PCV-RX480DS)



- | | |
|----------|---|
| 1 | PS/2® Mouse port
Connection for a PS/2 mouse. |
| 2 | PS/2® Keyboard port
Connection for a VAIO Smart™ Keyboard. |
| 3 | Ethernet port
10Base-T/100Base-TX Fast Ethernet interface.
(The port marked with  (Network) is for LAN connections only.) |

4	Universal Serial Bus (USB) ports (2) Connection for compatible USB devices.
5	Printer port Connection for a parallel device, such as a printer or scanner.
6	Serial port Connection for a compatible serial device, such as a digital still camera.
7	i.LINK 6-pin port (IEEE1394) Connection for a compatible digital device, such as a Sony Digital Handycam® Camcorder.
8	Game port Connection for a game or MIDI device.
9	Headphones jack Connection for the supplied speakers or optional headphones.
10	Line In jack Connection for an audio device.
11	Microphone jack Connection for a microphone (optional).
12	Monitor port Connection for a standard CRT display.
13	Line In jack Connection for the supplied modem cable to the wall jack.
14	AC Input port Connection for the supplied power cord.
15	DVI (LCD) Monitor port Connection for an LCD monitor.
16	Telephone cable jack Connection for a phone cable to the computer.

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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.

VAIO Action Setup

VAIO Action Setup manages the settings for your computer's Shortcut keys (S Keys) and i.LINK® interface. The programmable S Keys come with the following applications as their default settings:

- ☐ **S1** — Outlook Express
- ☐ **S2** — Internet Explorer
- ☐ **S3** — OpenMG Jukebox
- ☐ **S4** — PictureGear
- ☐ **S5** — MovieShaker
- ☐ **S6** — Help/Demo



All six buttons are reprogrammable.

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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.

To change the settings of the S Keys

- 1 From the Start menu, select Programs, select VAIO Action Setup, and then click on VAIO Action Setup.

 You can also double-click  on the Windows taskbar to open VAIO Action Setup.


- 2 Click the S Key you want to change.
- 3 From the Select Application dialog box, click the option for the desired type of function. The corresponding applications appear in the list box on the right.

 You may also use the drag and drop feature to place any application into the list box.

- 4 The Confirmation Application Name window appears showing you the application you have selected. Click Next.
- 5 You may now type a new name and description, if desired. Then click Finish.

Presetting i.LINK® devices

You can preset your i.LINK-equipped devices to perform desired functions, such as automatically starting DVgate™ applications or connecting two VAIO computers.

 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.

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.

To preset your i.LINK device to perform a desired function

- 1 From the Start menu, point to Programs, point to VAIO Action Setup, and then click on VAIO Action Setup.
- 2 Click i.LINK.
- 3 Click the Advanced Setting tab.
- 4 Click the Enable i.LINK launcher function checkbox and click Apply.
- 5 Connect the device to your computer with your i.LINK cable.
- 6 Turn on the device.
The VAIO Action Setup dialog box appears.
- 7 Click OK.
- 8 To modify the device name, click the current device name in the list box and click Modify device name.
- 9 Type the desired name and click Apply.

- 10** To assign an application, click Modify.

The Select Application dialog box appears.

- 11** Select the desired application and click Next.

- 12** Click Next to confirm the application name.

The Input Application Name dialog box appears. You may change the name and description of the application you want to launch.

- 13** Click Finish to complete this step.

The next time the device is connected and turned on, the assigned application will launch automatically.

Changing the Window Design of Sony Software

To change the window design

- 1** From the Start menu, point to Settings, and then click on 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 >> and then click OK.
- 7** The UI Design Selector closes and the Sony software window design displays.

 You may use the feature with UI Design Selector-compatible software only.

Changing Designs of VAIO Wallpaper

The background image for your VAIO computer’s operating system changes automatically, based on the time of day and the season of the year.

The default wallpaper setting for your system consists of three different wallpaper images. The image changes three times daily, based on your local computer time. A new background design appears at:

- ☐ 0300
- ☐ 1100
- ☐ 1900

The VAIO wallpaper design sets also change at seasonal intervals:

- ☐ March 1st (Spring)
- ☐ June 1st (Summer)
- ☐ September 1st (Fall)
- ☐ December 1st (Winter)

VAIO® AV Applications

Your VAIO computer comes with a collection of audio and video (AV) applications that make it easy to use advanced multimedia formats. This section describes these VAIO AV applications.

DVgate™

Sony Electronics, Inc.

DVgate software makes it easy to edit digital videos. You can grab and edit digital video clips and then assemble them into a polished home video that everyone can enjoy. You can also use DVgate software to capture individual frames from digital video clips, and then save them as graphic files. Enhance your Web page, send family and friends your favorite stills, create your own wallpaper—the possibilities are endless.

Media Bar™ DVD Player

Sony Electronics, Inc.

Media Bar DVD Player software delivers high quality video playback of your favorite DVDs.

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.

OpenMG™ Jukebox

Sony Electronics, Inc.

OpenMG Jukebox software enables you to import digital audio files by downloading from Electronic Music Distribution (EMD) services over digital networks, such as the Internet. You can record audio CDs onto your hard drive in a variety of formats.

PictureGear™

Sony Electronics, Inc.

PictureGear software is a digital image management application that allows you to see all the images stored in any directory on your computer. 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, and even HTML photo albums.

Smart Capture

Sony Electronics, Inc.

Smart Capture software is a fun new way to send multimedia messages via e-mail. Smart Capture manages the i.LINK® connection between your computer and a Sony Digital Handycam Camcorder, or other cameras that support the i.LINK interface. Smart Capture allows you to capture and compress video or still images that you can save or share via e-mail. Captures are low resolution, making it ideal for e-mail. For high-quality captures, use DVgate.



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.

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.

VisualFlow™

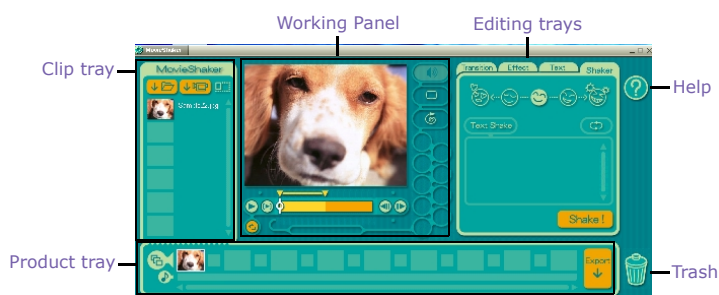
Sony Electronics, Inc.

VisualFlow software is a state-of-the-art Sony 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 not only plays a selected movie or sound file, but also enables playback of files by other applications like PictureGear, Memory Stick Slideshow and Windows Explorer.



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 lengthy image or sound files may cause the 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 selects clips from the Clip tray to create a 30-second scene.

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

Shaker tray



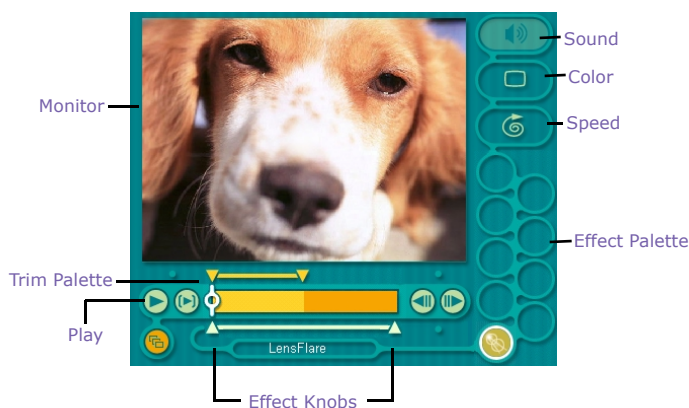
- 3 Click **Shake !**. A 30-second scene is automatically generated and saved to the Product tray.
- 4 To preview, switch the Work Panel to Product tray mode and press play.

 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 5 or less. 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 the Effect you want to add from the Effects tray to the Effects palette on the Working Panel.

 To preview an Effect, click the Play button on the Working panel window. Your clip plays 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 document 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—“Save movie as DV” (Digital Video) takes the longest and Quick-Save is the fastest. MovieShaker software can play AVI files up to 65 MB in length.

PictureGear™

PictureGear is a digital image management application that allows you to see all the images stored in any directory on your computer. 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 Click the Folder tab and browse to locate your pictures.
- 2 Select the pictures you want to have in a collection.
- 3 From Collection menu, select Create New Collection.
- 4 Enter a name for the collection 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 where you 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 have a 20 percent overlap.

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 OK. (If 35mm lens is selected, the prompt does not appear. To select a different lens, click on the lens icon.)
- 5 Click the panoramic icon, near the bottom of the window.
- 6 Click Full Stitch.

Making Still and Panoramic Images 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.

OpenMG™ Jukebox 2.0

OpenMG Jukebox is a software application that utilizes Sony Corporation's copyright protection technology. OpenMG Jukebox maintains the holder's copyrights by preventing unauthorized distribution of digital audio files.

OpenMG Jukebox software lets you play and record audio CDs and import digital audio files while maintaining the copyright information of the contents. When you record an audio CD with OpenMG Jukebox, it is encoded in ATRAC3 format onto your computer's hard drive. You can download digital audio files from Electronic Music Distribution (EMD) services. The imported data can be played on your computer or transferred to external devices or media. OpenMG Jukebox converts your existing MP3 and WAV format audio files into OpenMG format (WAV format audio files are converted into ATRAC3 format or changed into OpenMG MP3 format).



Your VAIO computer ships with OpenMG Jukebox 2.0 installed. Portable players that are compatible with OpenMG Jukebox may contain an earlier version of the software (Version 1.0, 1.1, or 1.2). Do not install an earlier version of OpenMG Jukebox on your computer, as this may cause the software to work improperly or damage your audio files. For more information on connecting your compatible portable player to your computer, go to the Sony Walkman® Product Support Web site at: <http://www.sony.com/walkmanproductsupport>.

Electronic Music Distribution (EMD) Services

EMD allows you to download music files via the Internet. To use Internet services that are compatible with OpenMG Jukebox, you need:

- ☐ Access to the Internet from your computer. Sign up with an Internet Service Provider (ISP) and configure your computer for Internet access before using EMD services.
- ☐ An EMD service provider. Consult the provider for information about service.




To protect your personal data, Sony uses Secure Sockets Layer (SSL), an encryption protocol for communication between your browser and Sony's World Wide Web (WWW) server. If you are accessing the Internet from an enterprise Local Area Network (LAN), you may not be able to use SSL due to the proxy server of the LAN. Contact your network administrator for more information.

Starting OpenMG Jukebox 2.0

- 1 From the Start button on the Windows taskbar, point to Programs, point to OpenMG Jukebox, and then click on OpenMG Jukebox.

The CDDDB® Music Recognition Service Registration wizard appears.
Follow the onscreen instructions to complete registration.

 To register with CDDDB, you need Internet access from your computer. For more information regarding CDDDB registration, click on the Help button.

- 2 When you have registered with CDDDB, the “Set OpenMG Jukebox as the Application for playing Audio CD” dialog box appears. You can set OpenMG Jukebox as the default application for playing audio CDs by selecting the appropriate checkbox.
- 3 Click OK. The OpenMG Jukebox window appears.

OpenMG Jukebox main window**1 Feature tabs**

Changes the screen view according to the selected feature.

5 Internet address drop-down list

Displays Internet addresses, if available. You can click on the “Go to URL link” button to immediately connect to Web sites.

2 Player control buttons

Controls playback functions, such as play, pause, stop, fast forward and reverse.

6 File list view

Displays the contents of the folder selected in the file tree view.

3 Playlist drop-down list

Displays available playlists and audio files of the current feature tab.

7 Tutorial tab


Opens and closes the Tutorial feature.

4 File tree view

Displays the folders available on your computer.

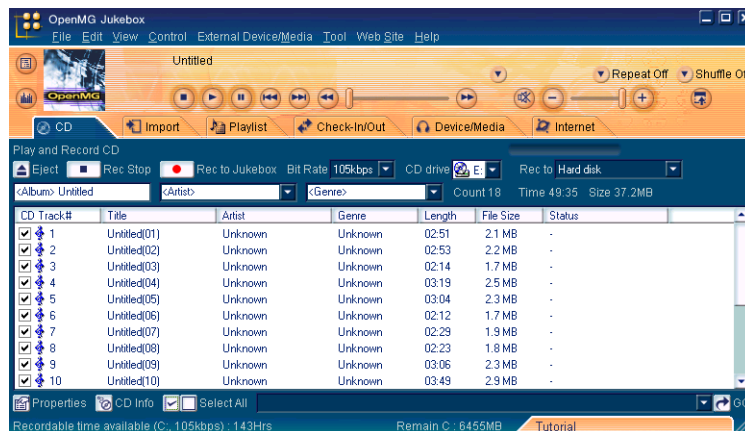
Recording a CD


You can record songs from audio CDs and import them to playlists in OpenMG Jukebox.


 When you record from an audio CD on your CD-RW/DVD-ROM drive for the first time, the “CD Drive Optimization” dialog box appears. Click Start to verify your CD-RW/DVD-ROM drive. After the verification is performed, recording begins.

- 1 Insert an audio CD into your system’s CD-RW/DVD-ROM drive.
- 2 Click the CD tab.
- 3 Use the drop-down lists to select the Bit Rate, CD drive, and Record To destination.

CD tab window



- 4 You can select specific tracks on your CD by removing the checkmark from the tracks you don’t want to record. You can clear all selected tracks by clicking in the empty checkbox next to Select All, and then select the tracks you want to record.
- 5 Click  Rec to Jukebox to begin recording. When the recording is finished, the new playlist appears in the File tree view of the Playlist window. You can change to this feature view by clicking on the Playlist tab.

 You can display the name of the CD and its songs by clicking on the CD Info button.

Transferring Songs (Check-in/Check-out)

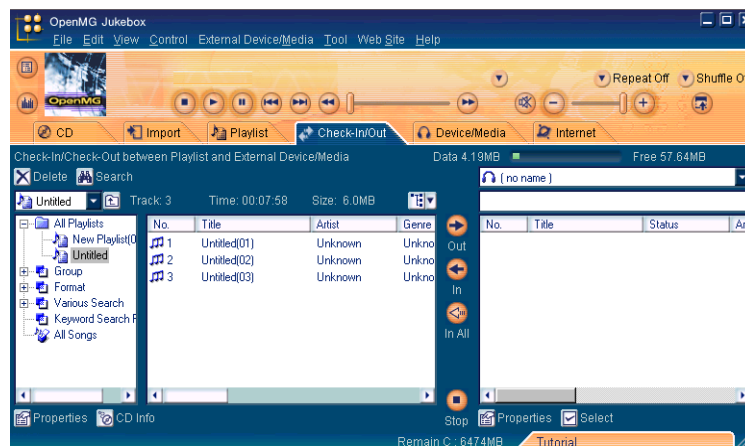
You can transfer songs between the playlists of your OpenMG Jukebox and external devices or media. For more information on using your external devices or media, see the documentation that came with the product.


These instructions are for using the Check-in/Check-out 1 step mode. For information on using 2 step mode, see “Changing the check-in/check-out settings” in the OpenMG Jukebox Help menu.



Check-out

- 1 Connect the external device or insert the media into your computer.
- 2 Click on the Check-in/Out tab to display the Check-in/Out tab window. Your computer automatically recognizes the connected external device or media and lists the content information in a new panel on the right side of the Check-in/Out tab window.


Check-In/Out tab window







- 3 Select the playlist that has the song that you want to check out. The songs in the playlist are shown in the Playlist view panel located in the center of the Check-In/Out tab window.
- 4 From the Playlist view panel, select the song to be checked out. To check out more than one song at a time, hold down the Ctrl key and click on the additional songs.
- 5 Click  (Out), or drag the song to the desired position in the song list of the external device or media. Check-out begins.

 To cancel Check-out, click  (Stop), or click Cancel in the Processing dialog box that is displayed during the Check-out process.

Check-in

 The songs that you transfer to external devices or media can only be checked in to the hard drive of the same computer from which the songs were checked out.

- 1 Connect the external device or insert the media into your computer
- 2 Click on the Check-in/Out tab to display the Check-in/Out tab window. Your computer automatically recognizes the connected external device or media and lists the content information in a new panel on the right side of the Check-in/Out tab window.
- 3 Select the song to be checked in from the song list of the external device or media. To check in more than one song at a time, hold down the Ctrl key and click on the additional songs.
- 4 Click  (In), or drag the song(s) to the Playlist view panel. If you want to check in all of the songs in the external device or media, click  (In All). Check-in begins.

 To cancel check-in, click  (Stop), or click Cancel in the Processing dialog box that is displayed during the Check-out process.

For more information about using OpenMG Jukebox 2.0 software, go to the online OpenMG Jukebox Help. You can access the online help file using either of the following instructions:


- ❑ Click the Start button on the Windows taskbar, point to Programs, point to OpenMG Jukebox, and then click on OpenMG Jukebox Help.
- ❑ From the OpenMG Jukebox Help menu, select OpenMG Jukebox Help.

Additional Features

- ❑ **OpenMG Jukebox Tutorial** — The features of OpenMG Jukebox 2.0 are described in the Tutorial. The user-friendly interface guides you directly to the OpenMG Jukebox 2.0 features.
- ❑ **OpenMG Jukebox Backup Tool** — You can back up and restore all of the music, graphics and information data managed by OpenMG Jukebox. You must be connected to the Internet to use the OpenMG Jukebox Backup Tool.
- ❑ **Import audio files in various formats** — You can import audio files with various formats, such as MP3 or WAV standards. You can also import audio files that comply with the Microsoft® Windows Media™ Technologies (WMT) standard, identified by .asf or .wma extensions. Manage your audio files through the Playlist feature of OpenMG Jukebox 2.0.
- ❑ **Manage imported songs on the Playlist** — Additional features are available when you register your imported songs through the Playlist feature of OpenMG Jukebox. You can manage your music by creating your own list of songs categorized by genre or artist, displaying your song list in the Playlist feature, and arranging your songs in a customized order using the Playlist folders. Edit your music by combining multiple songs into a single song, or divide one song into two, by using the Combine and Divide features.
- ❑ **Simple mode** — The main OpenMG Jukebox window in simple mode is a smaller, compact version of the full mode view. This can be useful when you want to listen to songs with OpenMG Jukebox while using other software, or whenever you feel that full mode view is intrusive. The design of the main OpenMG Jukebox window in simple mode can be changed by adding a new “skin,” which enhances the window’s appearance. The Simple mode feature allows you to perform playback operations only.

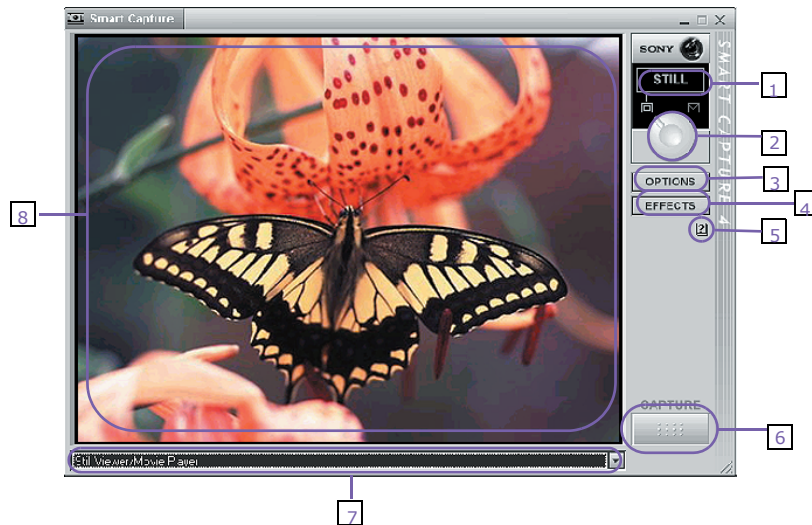
Smart Capture

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.

 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.

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.

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.

2 Mode dial Switches Smart Capture from Still mode to Net Movie mode with a single click of your mouse.	6 Capture button 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 Options button Displays the configuration options available for either Still or Net Movie mode.	7 Application Switch drop-down list Switches between the Still image and Net movie modes, using a drop-down list.
4 Effects button Displays the special effects that you can apply to your pictures or video clips.	8 Image window Displays the still or video image from your digital camera or camcorder.

Using Still mode

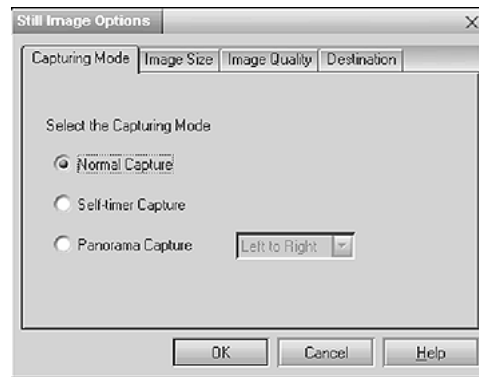
- 1 From the Start button, point to Programs, point to Smart Capture, and then click on Smart Capture. The Smart Capture main window appears.
- 2 Connect your compatible i.LINK digital camera or camcorder to your computer with an i.LINK cable. An image appears in the Smart Capture main window.

 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.

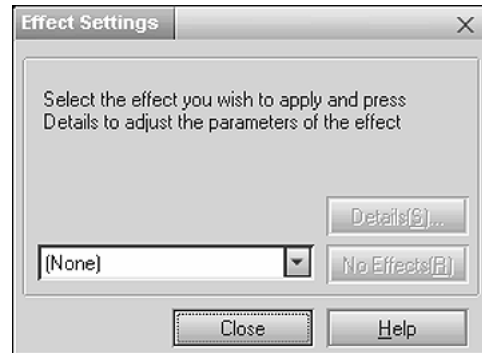
Still Image Options window




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 ImageStation."

- ❑ **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** Verify 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 ImageStation.”
- ❑ **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 ImageStation

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.

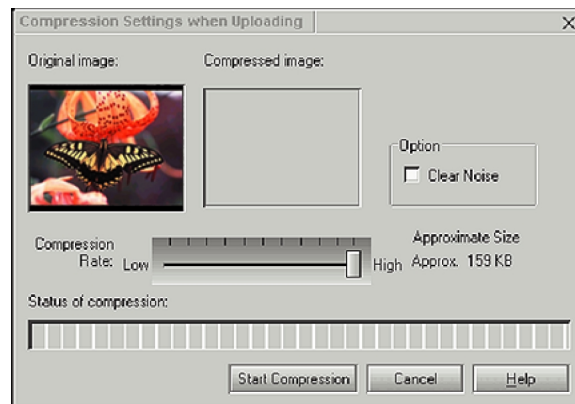
Uploading with Movie Player

 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.

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

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

Compression Settings when Uploading window



Uploading with Still Viewer

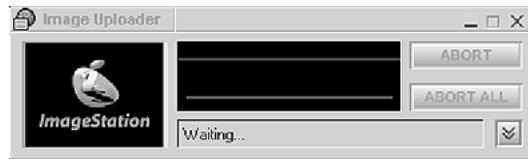
- 1 Click on the Upload button in Still Viewer. The ImageStation Login window appears.


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 window 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 like 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 Memory Stick-compatible, the VAIO Action Setup may be configured to launch the VisualFlow browser upon insertion of a Memory Stick media. In this case, VisualFlow 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.

DVgate™

Connecting a digital video camera recorder


Before connecting a digital video camera recorder to your computer, turn off the power to the camera. After connecting the camera, turn the power back on. You do not need to turn off the computer when connecting a camera.

Using DVgate software with a digital video camera recorder

- ❑ Do not use DVgate software when the connected digital video device is in Timer Recording mode, as this could produce a malfunction in the device.
- ❑ Captures larger than 2 GB (9 minutes and 30 seconds) are automatically continued in a second file.
- ❑ You can record stereo audio (stereo 1) while capturing video or you can add audio on the stereo 2 track after capturing the video data.
- ❑ You cannot use different audio modes on the same tape. You should perform a separate capture for each audio mode you wish to use.
- ❑ DVgate software does not support hard disk compression. You should not use disk compression if you are planning to work with DVgate.
- ❑ Title data is saved in the flash memory of a digital video camera and is not transferred to tape by DVgate software.
- ❑ To avoid interruption of capture sessions, you should disable the screen saver.
- ❑ The drop frame compensation feature does not provide accurate compensation adjustments for tapes recorded in LP mode.
- ❑ For tapes that include a mixture of both SP and LP mode, the information displayed by the capture progress indicator may not be accurate.
- ❑ Make sure the video head of your digital video device is properly cleaned. Anomalies that you see in captured data could be due to dust or other particles on the video head.
- ❑ The last frame captured is one frame before your selected [OUT] point. The frame you see immediately after clicking the [OUT] button is not captured.

Using DVgate to record AVI files to tape

- ❑ Do not use DVgate software when the connected digital video device is in Timer Recording mode, as this could produce a malfunction in the device.

 You can record only AVI files. MPEG files cannot be recorded.

- ❑ To avoid recording problems, such as a single frame appearing in multiple frames, close other applications on your system while recording.
- ❑ You cannot use different audio modes on the same tape. If you have AVI files that use different audio modes, they cannot be recorded at the same time, but must be recorded separately.
- ❑ Do not attempt to work with AVI files that are smaller than 4 MB.
- ❑ DVgate software does not support hard disk compression. Do not use disk compression if you are planning to work with DVgate.
- ❑ In order to maximize recording capabilities, video and audio data are not available while you are recording.
- ❑ If DVgate software indicates that frames have been dropped, close all open applications, or defragment your hard drive.

DVgate plug-in for Adobe Premiere® software

Your VAIO® Computer may not have Adobe Premiere software preinstalled. If you subsequently purchase and install this software on your computer, you must install a plug-in to ensure compatibility with DVgate™ version 2.3.

Installing the DVgate plug-in

Install the plug-in for Adobe Premiere® 5.1 and 5.1LE by following these steps:

- 1 Click Start in the Windows taskbar and select Run.
- 2 Click Browse to navigate to your C: drive.
- 3 Select Program Files, select Sony, select Dvgate, select Premiere Plug-in, and then select 5.1.
- 4 Select Setup.exe and click OK. The installation wizard dialog box appears. Follow the on-screen instructions to install the plug-in.

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

- 1** Click Start in the Windows taskbar and select Run.
- 2** Click Browse to navigate to your C: drive.
- 3** Select Program Files, select Sony, select Dvgate, select Premiere Plug-in, and then select 6.0.
- 4** Select Setup.exe and click OK. The installation wizard dialog box appears. Follow the on-screen instructions to install the plug-in.

Configuring your VAIO Digital Studio™ Computer

Hard Disk Drive Partition


In order to improve the performance of the DVgate™ software, the hard disk drive on your computer has been formatted with two partitions, C and D. The 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 DVgate™ performance, you should defragment your D partition regularly.

Defragmenting your Hard Disk Drive

If you encounter frame dropping while recording digital video onto your hard disk drive, defragmentation may be necessary.


To defragment your hard disk drive

- 1 Deactivate your screen saver, if applicable.
- 2 From the Start menu, point to Programs, point to Accessories, point to System Tools, and then click on Disk Defragmenter.
- 3 Run Disk Defragmenter.

 It may take more than a couple of hours to complete defragmentation, depending on the data capacity and utilization of your computer's hard disk drive(s).

i.LINK (IEEE1394) Compatibility

Your VAIO computer includes a 4-pin i.LINK port on the front of the system and a 6-pin i.LINK port on the back of the system.

 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.

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.

A 6-pin i.LINK port can:

- ☐ supply power from the computer to the connected device if the device is equipped with a 6-pin connector, and
- ☐ supply 10V to 12V.




The total power supplied by the 6-pin i.LINK port cannot exceed 6 watts.

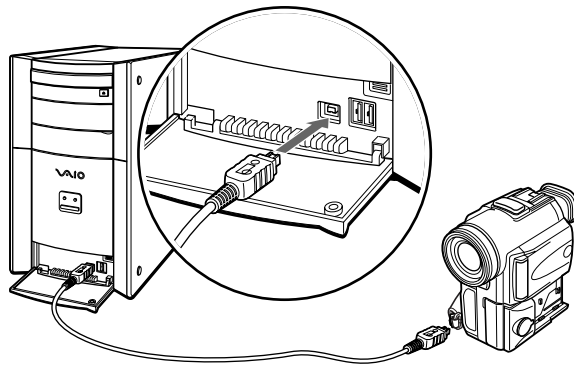
A 4-pin i.LINK port cannot supply power to a connected device.


The following Sony i.LINK 400 Mbps cables are available and recommended for use with your computer: VMC-IL4415, VMC-IL4435, VMC-IL4615, VMC-IL4635, VMC-IL6615, and VMC-IL6635. Sony computer supplies, accessories, and peripherals can be purchased from your local retailer or by accessing the Sony VAIO Direct Web site (<http://vaio.sonymstyle.com>), or by calling 1-888-315-7669 (toll free).

To connect an i.LINK (IEEE1394) device

Use the  symbol to locate the i.LINK port. Plug the i.LINK cable connector into this port.

Connecting an i.LINK device



 Microsoft® Windows® Millennium Edition uses an i.LINK communication standard that is not compatible with the Sony VX1000 camcorder. See the manual that came with your i.LINK device for more information on installation and use.


Enabling Ethernet

Your computer comes with a preinstalled Ethernet interface. To enable faster startup, your computer may ship with this function disabled. You can enable Ethernet connectivity by following the instructions below.

To enable the Ethernet connection

- 1 Click on My Computer icon on the desktop.
- 2 Click on Control Panel, and then click on System.
- 3 Click the Device Manager tab.
- 4 Click on the Network Adapters category, and then select “Realtek RTL8139 Family PCI Fast Ethernet NIC.”
- 5 Click the Properties button.
- 6 Remove the check mark from the option “Disable in this hardware profile.”
- 7 Click OK.
- 8 Close the Control Panel window.



Warning: Your computer has a protective sticker  covering the Ethernet port located on the rear panel. Connect only 10Base-T and 100Base-TX cables to the Ethernet port. Using other cables or a telephone cable may result in an electric current overload and can cause a malfunction, excessive heat or fire in the port. For help on connecting to a network, see your network administrator.

System, Application and Driver Recovery CD(s)

System Recovery CD(s)

Sony Electronics, Inc.

The System Recovery CD program enables you to restore the software titles that shipped with your computer if they become corrupted or are erased. It can be used only to restore the hard disk of the Sony computer you purchased.

Application Recovery CD(s)

Sony Electronics, Inc.

The Application Recovery CD program enables you to reinstall individual applications. Use it to restore corrupted or erased files.


Driver Recovery CD

Sony Electronics, Inc.

The Driver Recovery CD program enables you to reinstall individual device drivers. Use it to restore corrupted or erased files.

Using the System Recovery CD(s)

You can reinstall software titles that shipped with your computer if they become corrupted or are erased. You may not need to recover the entire contents of your hard drive. If you experience a problem with your computer, reinstalling a software title may correct the problem.

 Use the Application Recovery CD program to reinstall individual applications.


Full Restore with Format

The System Recovery utility formats your hard disk drive and then restores all the original software.




You will lose any software you have installed and any other files you have created since you started to use your computer. You must reinstall any applications that were not included with the computer when you purchased it.


To use the System Recovery CD(s)

 You need to complete the Windows registration process when you use the System Recovery CD(s).

- 1 Insert the Sony System Recovery CD in the DVD-ROM drive.

 The System Recovery utility boots from the DVD-ROM drive. It must be in the drive when you turn on the computer.

- 2 Shut down your computer.
- 3 Wait 30 seconds and turn on your computer.
- 4 Type the letter “O” to signify you have read and accepted the Microsoft End-User License Agreement.
- 5 When the System Recovery menu appears, follow the on-screen instructions to complete the recovery process.


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

The recovery process takes 30 to 60 minutes to complete.

After recovering your system using the System Recovery CD(s), you may be prompted to insert your Application Recovery CD(s) after restarting Windows. Use the Application Recovery CD(s) to complete the full recovery of your system.

Using the Application Recovery CD(s)


The Application Recovery CD utility enables you to reinstall individual applications if they become corrupted or are erased. Reinstalling an individual software title may correct a problem that you are experiencing with your computer 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 computer, use the System Recovery CD(s).

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


To use the Application Recovery CD(s)

- 1** Turn on your computer. If your computer is already on, close all applications.
- 2** When the Windows desktop appears, insert the Application Recovery CD in the DVD-ROM drive. The Application Recovery utility loads automatically.
- 3** When the Application Recovery menu appears, follow the on-screen instructions to complete the recovery process.

 Your system may include one or more Application Recovery CDs. If you have more than one Application Recovery CD, insert the first CD to run the Application Recovery utility. You may be prompted to insert the next CD(s), depending on the application you wish to restore.

Using the Driver Recovery CD

The Driver Recovery CD utility enables you to reinstall individual drivers and repair software applications if they become corrupted or are 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, an application repair utility, uses a vault feature on the Driver Recovery CD during its software healing process.

 A list of software titles that are protected by VAIO Support Agent can be located in the section, “VAIO Support Agent..” If you need to reinstall all of the software titles that shipped with your computer, use the System Recovery CD.

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

To reinstall drivers with the Driver Recovery CD

- 1 Turn on your computer. If your computer is already on, close all applications.
- 2 When the Windows desktop appears, insert the Driver Recovery CD in the DVD-ROM drive. Go to 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 the section, “VAIO Support Agent” for instructions on how to fix your software problems.

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.

VAIO Support Agent main window




Using the Quick Fix Wizard

The Quick Fix Wizard 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. If you develop a problem 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 properly. 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.
- 2 The Welcome window appears. Click Next.
The “Quick Fix Wizard: Begin VAIO Support Agent Diagnostics” dialog box appears.
- 3 Select the “Diagnose and fix my software” option and select the item you want VAIO Support Agent to examine.
- 4 Select the affected software title from the drop-down list and then select the date/time that identifies when your software was working properly.

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

Quick Fix Wizard: Begin VAIO Support Agent Diagnostics dialog box

The screenshot shows a Windows-style dialog box titled "Quick Fix Wizard" with a close button (X) in the top right corner. The main title inside the box is "Begin VAIO Support Agent Diagnostics". Below this title, there are two radio button options. The first option, "Diagnose and fix my software", is selected. Below this option, there are two labels with corresponding dropdown menus: "Pick the software:" with a dropdown showing "PictureGear", and "This software worked OK on or before:" with a dropdown showing "4/3/2001 10:32:24 AM". The second radio button option is "Undo previous fixes". Below these options, there is a line of text: "Please select an option and click Next to continue." At the bottom of the dialog box, there are four buttons: "< Back", "Next >", "Cancel", and "Help".

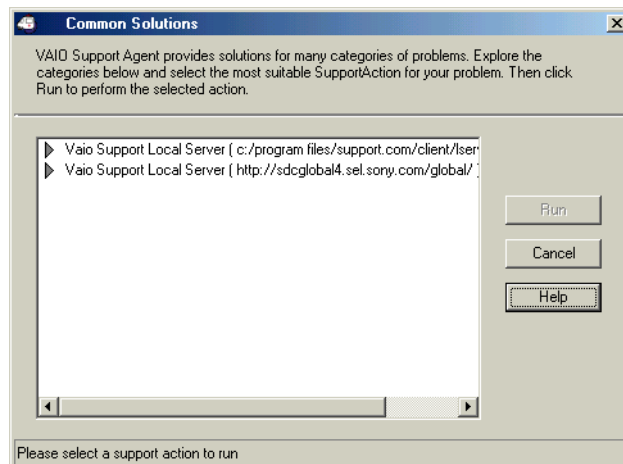
- 5 Click Next to continue. Follow the instructions on the screen.


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.

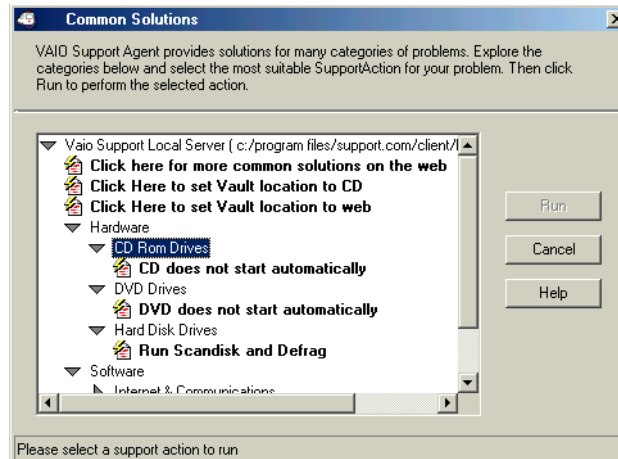
Common Solutions dialog box (1st level)




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

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

Common Solutions dialog box (2nd level)



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

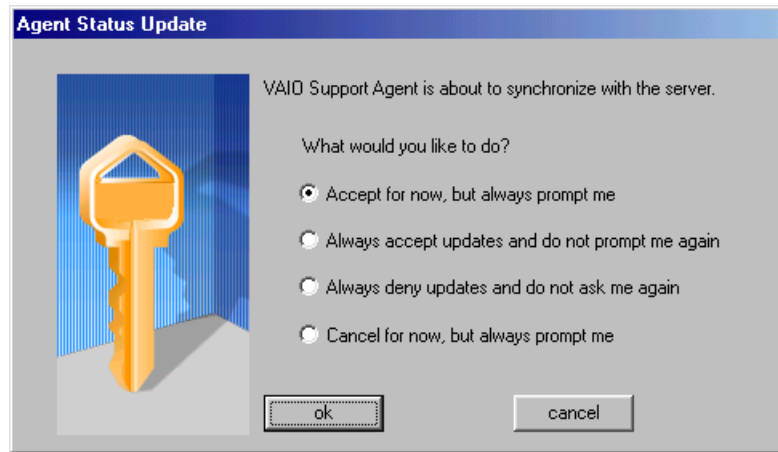
 You cannot undo One-Click Fixes.

About Automatic Updates

The VAIO Support Agent utility 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.

Every time VAIO Support Agent prepares to update, the Agent Status Update dialog box appears and asks you to respond.

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

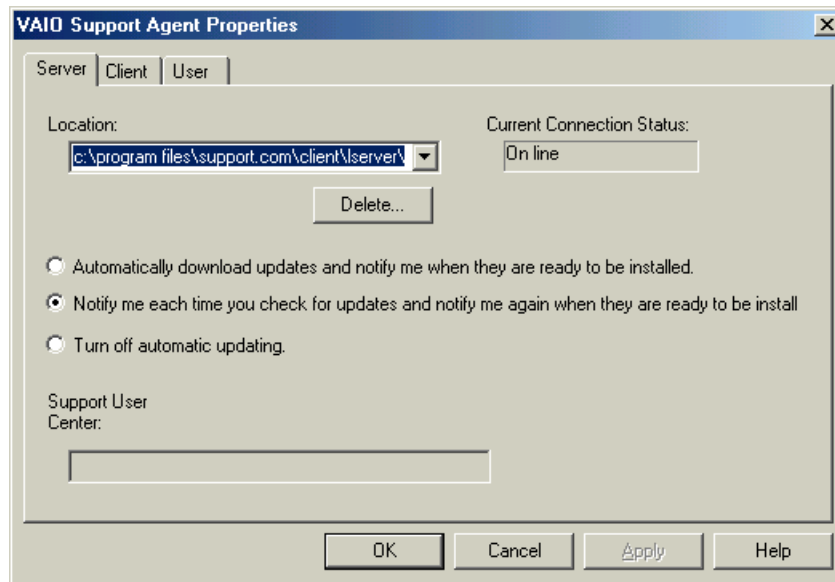
Once you have given permission to update, the Agent contacts the Sony Support Server. The ambulance icon on your task tray blinks when the Agent finds an update or fix for your computer model. Double-click the ambulance icon  to view the update.

 You must be connected to the Internet to receive an update.


You can control the VAIO Support Agent automatic update feature.


- 1 From the VAIO Support Agent main screen, select Tools and 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



Event Notification


At times, Sony initiates an event by sending support information for your specific computer model directly to you over the Internet. If you are connected to the Internet when these events occur, the ambulance icon on your task tray blinks. Double-click the ambulance icon  to view the event.

 You must be connected to the Internet to receive an event notification.

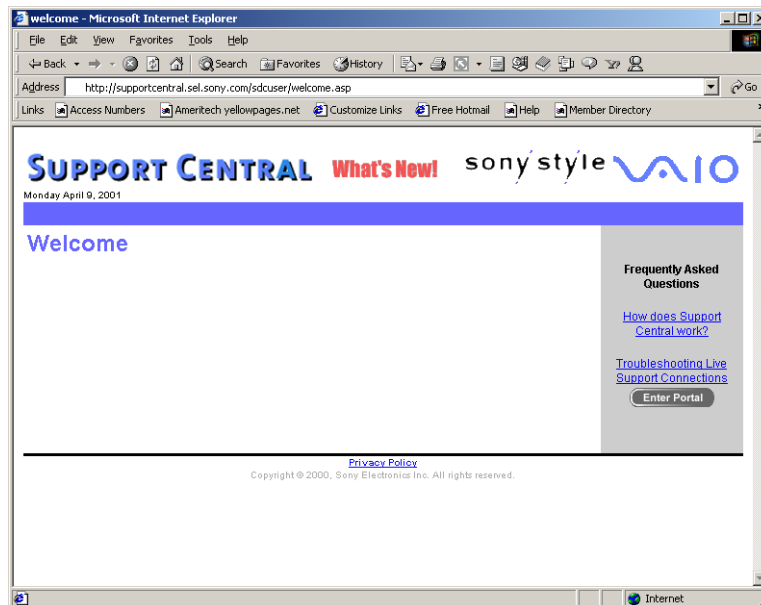
Using Support Central

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: Registration page

The screenshot shows a web browser window titled "http://43.153.54.25/ndc/asp/entryform.asp - Microsoft Internet Explorer provided by SONY Electronics Inc.". The page is for "Support Central" and includes a "What's New!" banner and the "sony style VAIO" logo. A welcome message reads: "Welcome everab, Monday December 18, 2000".

The registration form contains the following fields, all marked as required:

- Phone Number(555-555-5555)
- First Name
- Middle Initial
- Last Name
- Company Name
- Address 1
- Address 2
- City
- State/Province (dropdown menu)
- ZIP (or Postal Code)
- Email Address
- Product Model # (dropdown menu)
- Product Serial #
- Place of Purchase
- Purchase Date: 01/01/2000

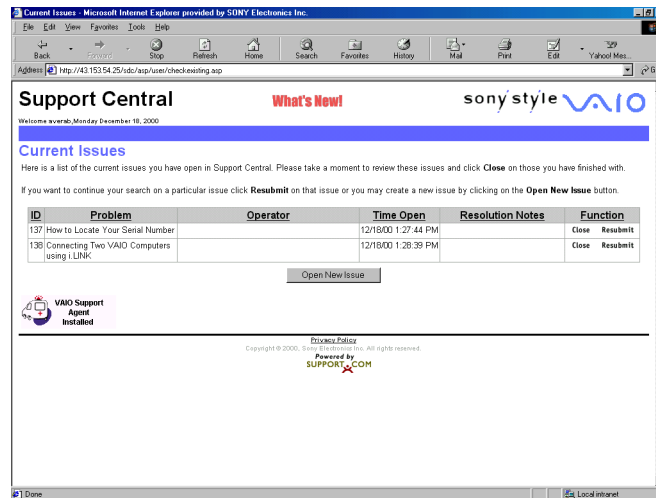
Instructions and notes on the right side of the form:

- "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."

A "Submit" button is located at the bottom of the form.

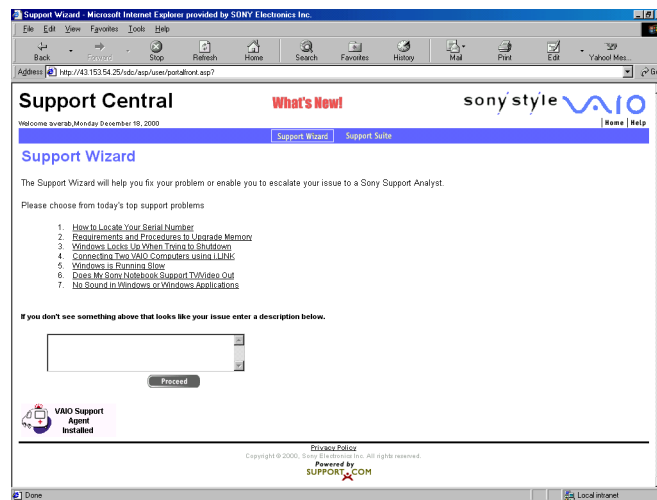
Support Central retains your registration information, so you are only required to register once. If you log on to your computer with a different user name or have recovered your system using the System Recovery CDs, Support Central may require you to register again.

Support Central: 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 have Internet access to use Support Central.

Software Applications protected by VAIO Support Agent


In addition to the software listed below, your modem settings are protected by the VAIO Support Agent utility.

Utilities

- ☐ VAIO Action Setup

Applications

- ☐ Adobe® Photoshop® Elements
- ☐ Adobe® Premiere LE
- ☐ DVgate™
- ☐ PictureGear™
- ☐ MovieShaker™
- ☐ DVD Express
- ☐ Media Bar DVD Player
- ☐ OpenMG™ Jukebox
- ☐ SoundForge® XP
- ☐ Direct CD™
- ☐ Easy CD Creator™

 The VAIO Support Agent utility may ask you to use the Driver Recovery CD during the healing process.

Troubleshooting

This section describes how to solve common problems you may encounter when using your computer. Many problems have simple solutions, so try these suggestions before you call Sony Customer Support.

Topics

Topic: My computer does not start.

- ☐ Check that the computer is plugged into a power source and that it is turned on. Check that the power light is lit on the front panel of the computer.
- ☐ Confirm that a disk is not in the floppy disk drive (unless you are using a bootable disk).
- ☐ Confirm that the power cord and all cables are connected firmly.
- ☐ If you plugged the computer into a power strip or Uninterruptible Power Supply (UPS), make sure the power strip or UPS is turned on and working.
- ☐ Check that the display 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.
- ☐ Check that the computer is not in standby mode.

Topic: My files are corrupted or deleted. I want to recover applications that came with my computer.


See “Using the Application Recovery CD(s)” in this manual.

Topic: My drivers are corrupted or deleted. I want to recover drivers that came with my computer.

See “Using the Driver Recovery CD” in this manual.

Topic: My computer or software program stopped responding.

- 1 Press Ctrl+Alt+Delete to close the application that has stopped responding.
 - 2 In the Close Program dialog box, scroll down until you locate the message “Not responding” next to an application.
 - 3 Select this application and click End Task. Windows attempts to close the application. If the attempt is unsuccessful, a second dialog box appears.
 - 4 Select End Task again.
- ❑ If you are unable to “unlock” the application, repeat the above steps but select Shut Down when the Close Program dialog box appears.
 - ❑ If the above steps fail to “unlock” your computer, try the following steps:
 - 1 Save any unsaved work, if possible.
 - 2 Press Alt+F4.
 - 3 Select Restart.
 - 4 Click OK.
 - ❑ If you cannot restart as described in the preceding steps, you can restart the computer by pressing Ctrl+Alt+Delete or by pressing the power switch for more than six seconds.

 Pressing Ctrl+Alt+Delete twice consecutively may result in the loss of changes made to files that are currently open.

- ❑ Contact the software publisher or designated provider for technical support. See the contact information in this manual.

Topic: Why does the Windows® operating system stop responding during shutdown?


The Windows operating system may not shut down properly for many reasons, including incompatible or conflicting drivers, damaged files, or nonresponsive hardware. For troubleshooting information, you can search Windows Help.

- 1 From the Start menu, select Help. Microsoft Help and Support appears.
- 2 Click on Troubleshooting and navigate to the subject(s) for which you want information.
- 3 When you find the appropriate information, close Help and Support.

Topic: How do I change the parallel port type to ECP, EPP, or bi-directional?

You can change the parallel port type using the System Setup utility (CMOS Setup Utility). To access System Setup:


- 1 From the Start menu, select Shut Down. From the drop-down list, select Restart.
- 2 When the Sony screen displays, press the F2 key on your keyboard.
- 3 Select the Advanced tab from the Setup Utility screen.
- 4 Select “I/O Device Configuration” and press Enter.
- 5 Use the arrow keys to highlight Parallel Port Mode and press Enter.

 You can toggle between the Normal (bi-directional), EPP, ECP, and ECP+EPP options using the directional arrow keys.

- 6 Select the desired setting displays, press Enter.
- 7 Press F10 to Save and Exit.


Topic: My DVD-ROM or CD-RW drive tray does not open.

- Use the eject button
 - 1 Make sure the computer is turned on.
 - 2 Press the Eject button on the drive.
- Use the My Computer icon
 - 1 Click the My Computer icon on the Windows® desktop.
 - 2 Right-click the DVD-ROM or CD-RW drive icon.
 - 3 Select the Eject option from the shortcut menu.

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

Topic: I cannot play a CD.

- ❑ After inserting your CD, wait a few seconds for it to be detected before trying to access it.
- ❑ Verify that the disc is in the tray with the label side facing up.
- ❑ Install your CD software according to the manufacturer's instructions.
- ❑ If your drive reads some CDs, but not others, check the shiny side of the disc for dirt or scratches. You may also need to clean the disc drive lens with an appropriate cleaner.

 To recover CD software applications that are preinstalled on your computer, see "Using the Application Recovery CD(s)" in this manual.

Topic: I cannot play a DVD.

- ❑ If a region code warning appears when you are using the DVD player, it could be that the DVD you are trying to play is incompatible with the DVD-ROM drive in your VAIO Digital Studio™ Computer. The region code is listed on the disc's packaging. Region code indicators such as "1" or "ALL" are labeled on some DVDs to indicate what type of player can play the disc. Unless a "1" or "ALL" appears on the DVD or on the packaging, you cannot play the disc on this computer.
- ❑ If you hear audio but cannot see video, your computer's video resolution may be set too high. For best results, change the screen area to 800 x 600 using 16-bit color. To change this setting:
 - 1 Click the My Computer icon on your desktop.
 - 2 Click Control Panel.
 - 3 Click Display.
 - 4 Click the Settings tab.
 - 5 Change the screen area and color.
 - 6 Click OK.
- ❑ If you see video but cannot hear audio, check all of the following:
 - 1 Make sure your DVD player's mute setting is off.
 - 2 Check the master volume setting in the audio Mixer.
 - 3 Check the volume settings on your computer speakers.

- 4 Check the connections between your speakers and the computer.
 - 5 Go to Windows® System Properties to verify that the drivers are installed properly, by following these steps:
 - a. From the Start menu, point to Settings, and then click Control Panel.
 - b. Click Systems and the System Properties dialog box appears.
 - c. Select the Device Manager tab to view the installed drivers.
- ❑ A dirty or damaged disc may cause the computer to stop responding while it tries to read the disc. If necessary, remove the disc and check that it is not dirty or damaged.

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

- ❑ Some titles require specific files that are located on the application’s CD-ROM. Insert the disc and try starting the program again.
- ❑ Check to make sure you inserted the CD-ROM with the label side facing up.

Topic: Why doesn't my CD-RW drive record at the highest speed?

Sony recommends using 8x CD-RW or 12x CD-R to achieve optimum performance. If you are using other non-12x media and have difficulty with formatting, change the write speed from 12x to a lower setting. If you must use other media and are having difficulty formatting non-8x CD-RW media, change the write speed from 8x to a lower setting

To change write speed follow these steps:



- 1 From the Start menu, select Programs, select Adaptec Easy CD Creator, and then click on Create CD.
- 2 Click on Audio and then click on Audio CD.
- 3 From the Tools menu, click on CD Drive Properties. The CD Drive Properties dialog box appears.
- 4 From the Write Speed drop-down list, select a lower setting.
- 5 Click Close.


Topic: How do I change the video resolution of my display?

- 1 From the Start menu, select Settings, and then select Control Panel.
- 2 Click the Display icon and select the Settings tab.
- 3 Move the Display area slider to change the resolution.
- 4 Click OK.

Topic: Why is there no sound in any application?

There are independent controls for your system volume.

- ☐ Check that the speakers are plugged into the HEADPHONES jack.
- ☐ 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 the speakers use an external power source, make sure that the power cord is plugged into a grounded wall outlet or power strip.
- ☐ If the speakers have their own volume control, check the volume level.
- ☐ If the program you are using has its own volume control, check that the volume is turned up.
- ☐ Check the volume controls in the application, in the audio mixer, and in Windows. There is a volume control  icon on the Windows® taskbar. Click the icon and slide the level bar up to increase the volume.
- ☐ Check that the Mute check box is not selected in the Windows volume control .
- ☐ If you connected headphones to the computer, you will not hear sound from the speakers.

 You may need to reinstall the sound drivers. See “Using the Driver Recovery CD” in this manual.

Topic: My modem connection is slow.

The computer's modem uses Lucent 1648 technology/V.90. Many factors 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, check the following:

- ☐ Have your phone company 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.
- ☐ For optimum performance, ensure you are calling an Internet Service Provider number that is V.90-compliant.
- ☐ 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 this line.


Topic: My modem does not work.

Your modem may stop working due to many possible factors, including equipment or software conflicts. If your modem is not functioning properly, check the following:

- ☐ Check that the phone line is plugged into the LINE jack.
- ☐ 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.
- ☐ Verify that the software you are using is appropriately configured to recognize and interact with the Sony computer modem. Call the software publisher if you do not know how to configure the software to recognize the modem. All programs preinstalled by Sony are compatible.
- ☐ If your modem is not functioning properly, you can perform a simple diagnostic test to try and determine the cause.
 - 1 Click the My Computer icon on your desktop.
 - 2 Click Control Panel.

- 3 Click Modems.
- 4 Click the Diagnostics tab.
- 5 Select COM3.
- 6 Click More Info.

If your modem is functioning, a More Info dialog box will display. If your modem is still not functioning properly, an error message will appear.

 You may need to reinstall the modem drivers. See “Using the Driver Recovery CD” in this manual.

Topic: How do I change my modem to rotary or Touch-Tone dialing?

- 1 Click the My Computer icon on your desktop.
- 2 Click Control Panel and then click Modems.
- 3 Click Dialing Properties.
- 4 Select the Tone dial or Pulse dial option next to “Dial using.”
- 5 Click OK.

Topic: My microphone does not work.

Check that the microphone is plugged into the MIC jack.

Topic: My microphone is too sensitive to background noise.


If you find there is too much background noise when you record sound, you should adjust the microphone gain by following these steps:

- 1 Right-click the speaker icon (Volume) in the lower-right Windows® task tray.
- 2 Click Open Volume Controls.
The Volume Control screen appears.
- 3 In the Options menu, select Properties.
The Properties screen appears.

- 4 Change the setting for “Adjust volume for” from Playback to Recording, then click OK.
- 5 Decrease the microphone level.
- 6 If available, click the Advanced button under Microphone Balance.
The Advanced Controls for Microphone screen appears.
- 7 Deselect the check box for 1 Microphone Boost, then click the Close button.
- 8 Close the Recording Control window.

Topic: My mouse does not work.

- ☐ Check that the mouse is plugged into the MOUSE port.
- ☐ There may be dust or dirt inside the mouse mechanism. To clean the mouse, follow these steps:
 - 1 Turn off your computer and turn the mouse upside down.
 - 2 Remove the mouse ball cover on the back of the mouse by turning clockwise the ring that covers the mouse ball.
 - 3 Turn the mouse upright, and drop the mouse ball into your hand.
 - 4 Using a piece of tape, remove any dust or dirt on the mouse ball and inside the mouse ball socket.
 - 5 Return the mouse ball to the socket, and replace the mouse ball cover. Secure the cover by turning the ring counter-clockwise.
- ☐ Close all applications and turn off your computer. Restart your computer.

 You may need to reinstall the mouse drivers. See “Using the Driver Recovery CD” in this manual.

Topic: My mouse needs to be set up for left-hand use.

- 1 Click My Computer on your desktop.
- 2 Click Control Panel and then click Mouse.
The Mouse Properties dialog box appears.
- 3 From the Buttons tab, select Left-Handed under the Button Configuration options.
- 4 Click Apply and then click OK.

Topic: My keyboard does not work.

- ❑ Check that the keyboard is plugged into the KEYBOARD port.
- ❑ Close all applications and turn off your computer. Restart your computer.

Topic: I cannot find the Windows® taskbar.

The Windows taskbar may be hidden or minimized.

- ❑ Use the mouse to locate a hidden taskbar by pointing to the left, right, top, and bottom edges of the screen. The taskbar appears when the cursor is placed over its location.
 - 1 Right-click on the taskbar and select Properties from the shortcut menu.
 - 2 Clear the checkbox for Autohide and then click OK.
- ❑ Use the mouse to locate a minimized taskbar by pointing to the left, right, top and bottom edges of the display screen. The taskbar has been located when the cursor changes into a double arrow cursor.
 - ❑ Left-click and drag away from the edge of the display screen. The minimized taskbar resizes and becomes visible.

Topic: Why is my system running slowly?

- ❑ The system responsiveness varies with the number of applications that are open and running. Close any applications that you are not currently using.
- ❑ Increasing the system memory may also help. The computer has four memory slots. For memory upgrades, use only PC-800 Rambus RIMMs in pairs. For information on installing memory, please see the online document *Upgrading and Maintaining Your VAIO Digital Studio™ Computer*.

Topic: My connected printer doesn't function after the computer resumes from a power saving mode.


When this occurs, follow the procedures below to reset the printer connection:

- 1 Right-click My Computer on the desktop, and then select Properties.
- 2 Click the Device Manager tab.
- 3 Select Refresh, and then click OK.
- 4 The printer should now function properly.


Topic: How do I enable my Ethernet interface?

- 1 Click on My Computer icon on the desktop.
- 2 Click on Control Panel, and then click on System.
- 3 Click the Device Manager tab.
- 4 Click on the Network Adapters category, and then select “Realtek RTL8139 Family PCI Fast Ethernet NIC.”
- 5 Click the Properties button.
- 6 Remove the check mark from the option “Disable in this hardware profile.”
- 7 Click OK.
- 8 Close the Control Panel window.

Topic: How do I install a printer?

 If the printer has a USB connection, do not follow the steps below. Contact the manufacturer of your printer for updates or other information that will resolve the problem.


- 1 From the Start menu, select Settings, and then select Printers.
- 2 Click Add Printer.
- 3 Click Next.
- 4 Select Local Printer and click Next.
- 5 Select the appropriate manufacturer and model and click Next.


 If the printer is not included in the list and the printer manufacturer included a disk with a Windows Me Printer driver, choose Have Disk, enter the appropriate path for the disk or CD and click OK.

If the printer is not included on the list and no drivers are included with the printer, choose an alternate printer driver that your printer may emulate. Refer to the manual that came with your printer for specific emulation information.

- 6 Select LPT1 and click Next.

- 7 Click Yes to have Windows-based programs use this as the default printer.
- 8 Click Next.
- 9 Click No and then click Finish.

 If prompted for a path to the windows files, use C:\Windows\Options\Cabs.

 Check the printer manufacturer's Web site for the latest drivers for Windows Me™ before proceeding. Some printers do not function properly without updated drivers for Windows Me.

To Reach Sony

For further assistance, call 1-888-4SONYPC (1-888-476-6972).

Notes on Use

On the Power Source

- ❑ Your computer operates on 100–120 V AC 50/60 Hz only.
- ❑ Plug all the power cords for your computer and its peripheral equipment into the same AC supply line. AC derived from different supply lines may result in voltage differences that can cause unstable operation or unwanted weak currents at the time of connection.
- ❑ Do not share the AC outlet with any other power-consuming equipment, such as copying machines or shredders.
- ❑ You can purchase a power strip with a surge protector. This device prevents damage to your computer caused by sudden power surges such as those that may occur during an electrical storm.
- ❑ If you live in an area that experiences frequent power fluctuations, you may want to purchase an Uninterruptible Power Supply (UPS). This device contains both a surge protector and a battery backup. The surge protector prevents damage to your computer caused by power surges. The battery backup safeguards your data during a brief period of power loss.
- ❑ The power control button on the front panel does not turn off the system AC power. To remove power from the system, you must shut down the computer as described in the User Guide and then unplug the AC power cord from the wall outlet or power strip.
- ❑ Do not place heavy objects on the power cord.
- ❑ Do not operate the system with the cover removed. Always reinstall the cover before turning on the system.
- ❑ To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- ❑ Unplug your computer from the wall outlet if you will not be using the computer for a long time.
- ❑ Before touching anything inside the computer, turn the system off and let it cool for ten minutes. This will ensure that the processor heat sink will not be hot.
- ❑ Do not attempt to open the power supply. There are no user-serviceable parts in the power supply. To avoid personal injury or damage to your equipment, refer the repair or replacement of the power supply to qualified personnel only.

On Disposal of the Lithium Battery

Dispose of the lithium battery properly. In some areas, the disposal of lithium batteries in household or business trash may be prohibited. You can return your unwanted lithium batteries to your nearest Sony Service Center or Factory Service Center. For the Sony Service Center nearest you, call 1-888-4SONY-PC (1-888-476-6972).



Do not handle damaged or leaking lithium batteries.

The lithium battery may explode if mistreated. Do not disassemble it or dispose of it in fire.

Replace the battery with a Sony CR2032 lithium battery. Using a type of battery other than a CR2032 may present a risk of fire or explosion.

On Handling the Computer System

- ❑ Do not place your Sony computer in a location subject to:
 - ❑ Heat sources, such as radiators or air ducts
 - ❑ Direct sunlight
 - ❑ Excessive dust
 - ❑ Mechanical vibration or shock
 - ❑ Strong magnets or speakers that are not magnetically shielded
 - ❑ Ambient temperature of more than 95°F (35°C) or less than 50°F (10°C)
 - ❑ High humidity, moisture, or rain
- ❑ Do not place electronic equipment near your computer. The computer's electromagnetic field may cause a malfunction.
- ❑ Provide adequate air circulation to prevent internal heat build-up. Do not place your computer on loose surfaces (such as rugs or blankets) or near materials (such as curtains or draperies) that may block its ventilation slots. Leave a space of at least 8 inches from the back panel of your computer.
- ❑ Clean the cabinet with a soft, dry cloth or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine, as it may damage the finish of your Sony computer.

- ❑ Should any solid object or liquid fall into the cabinet, keyboard, or mouse, shut down your computer and then unplug it. You may want to have the computer checked by qualified personnel before operating it any further.
- ❑ The computer uses high-frequency radio signals and may cause interference to radio or TV reception. Should this occur, relocate the computer a suitable distance away from the set.
- ❑ Use only specified peripheral equipment and interface cables; otherwise, problems may result.
- ❑ Do not use cut or damaged connection cables.
- ❑ Always switch the power off before connecting your computer to peripheral equipment; otherwise, damage may occur to the integrated circuits in your computer.
- ❑ Your computer, keyboard, and mouse consist of high-precision electronic parts. Do not drop them or bump them against other objects.
- ❑ Your Sony computer will 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).
- ❑ If the telephone company makes a service call to your home or office and determines that your computer is responsible for the problem, the telephone company may bill you for the service call. If you do not disconnect your computer when it is adversely affecting the telephone line, the telephone company has the right to disconnect your service until you correct the problem.

On Moisture Condensation

If your computer is brought directly from a cold location to a warm one, moisture may condense inside your computer. In this case, allow at least an hour before turning on your computer. If any problem occurs, unplug your computer, and contact your Sony Service Center.

On Upgrading the Computer System

- ❑ The procedures described in the online manual, *Upgrading and Maintaining Your VAIO Digital Studio™ Computer*, assume familiarity with the general terminology associated with personal computers and with the safety practices and regulatory compliance required for using and modifying electronic equipment.
- ❑ Disconnect the 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 in the online manual, *Upgrading and Maintaining Your VAIO Digital Studio™ Computer*. Failure to do so may result in personal injury or equipment damage.
- ❑ Electrostatic discharge (ESD) can damage disk drives, add-on cards, and other components. Follow the procedures described in the online manual, *Upgrading and Maintaining Your VAIO Digital Studio™ Computer*, 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 (for example, cellophane wrappers). Ground yourself by maintaining continuous contact with an unpainted metal portion of the chassis while performing the procedure.
- ❑ When removing a slot cover, be careful not to damage components on the system board or add-on cards. You may need to temporarily remove add-on cards that are next to the slot cover you want to remove.

On Handling a CRT Display

- ❑ Do not place the display near a strong magnetic force.
- ❑ Do not block the ventilation slots on the display.
- ❑ Using the computer in low temperature conditions may produce a residual image on the screen. This is not a malfunction. When the computer returns to normal temperature, the screen returns to normal.
- ❑ A residual image may appear on the screen if the same image is displayed for a lengthy period of time. The image disappears after a period of time. You can use a screen saver to prevent residual images.
- ❑ The screen becomes warm during operation. This is normal and does not indicate a malfunction.

On Using the Hard Disk Drive

- ☐ Do not place the computer in a location that is subject to vibration or shock.
- ☐ Do not move the computer during operation.
- ☐ Do not subject the computer to sudden changes in temperature.
- ☐ Do not turn off the power while the computer is accessing the hard disk drive.

On 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.

On Handling CD or DVD Media

- ☐ Do not touch the surface of the disc.
- ☐ Do not drop or bend the disc.
- ☐ Do not use adhesive labels to identify the disc. The label may come off while the disc is in use in the optical drive and damage the drive.

On Cleaning CD or DVD Media

- ☐ Fingerprints and dust on the surface of a disc may cause read 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.

For Answers to Your Software Questions

Sony Service Center

For the Sony Service Center nearest you, call 1-888-4SONYPC (1-888-476-6972). This service is free of charge for 90 days after the original date of purchase.

Adobe Acrobat Reader™, Adobe Photoshop® Elements, Adobe Premiere® LE (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	800-827-3338
hours	7 days a week, 8 AM - 2 AM ET

CompuServe® 2000 (CompuServe Interactive Services)

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

DirectCD, Easy CD Creator™ (Roxio, Inc.)

Web site	http://www.roxio.com
phone	408-945-8600
hours	M - F, 8AM - 5 PM PT

EarthLink™ Network TotalAccess (EarthLink Network, Inc.)

Web site	http://help.earthlink.net/techsupport/
phone	800-395-5128
e-mail	support@earthlink.net
hours	7 days a week, 24 hours a day

Netscape Communicator® (Netscape Communications Corp.)

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 Corp.)

Web site	http://www.symantec.com
phone	800-927-3991; 900-646-0007*
hours	M - F, 9 AM - 5 PM CT

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

PhotoPrinter™ 2000 Pro (ArcSoft, Inc.)

Web site	http://www.arcsoft.com http://www.photoisland.com
phone	510-440-9901
e-mail	techsupport@arcsoft.com
hours	M - F, 8:30 AM - 5:30 PM PT

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

RealPlayer®, RealJukebox (RealNetworks, Inc.)

Web site	http://service.real.com/help/call.html
phone	206-674-2680
hours	M - F, 8 AM - 6 PM PT / Sat. - Sun, 7:30 AM - 4 PM PT

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® (Sonic Foundry, Inc.)

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

Tomb Raider® Chronicles (Eidos Interactive)

Web site	http://www.eidosinteractive.com/support/
phone	415-547-1244
hours	M - F, 9 AM - 5PM PST

Windows® Millennium Edition Operating System, Internet Explorer, Outlook® Express, Word, (Microsoft Corp.)

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.

Resources

Sony provides several support options for your Sony computer. When you have questions about your computer and the preinstalled software, check these sources for answers, in the following sequence:

Quick Start	Contains information on how to set up your computer quickly and easily.
VAIO Digital Studio™ Computer User Guide	The User Guide contains information on how to get the most from your computer, find help, and solve common problems. Also includes product specifications.
Online (Electronic) Documentation	The <i>User Guide</i> is available electronically on your hard drive. Two additional guides, <i>Upgrading and Maintaining Your VAIO Digital Studio™ Computer</i> and <i>Troubleshooting Help</i> are also available online. To access online documentation, click the Start button, point to Help Center, and then point to the desired document.
Manuals and online help files that may accompany your preinstalled software	Most manuals for preinstalled software are located on your hard disk drive as online help files. You can access online help files from the Help menu in a specific application. A printed manual is available for some applications.
VAIO Support Agent	VAIO Support Agent can be accessed 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.
Knowledge Database	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 the Sony Knowledge Database at http://www.sony.com/pcsupport .

Sony Fax-on-Demand	This service provides you with answers to commonly asked questions. You can use this automated service to request a list of available topics and 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). (Requires a fax machine or fax software.)
Software Updates	You can download the latest software updates and software patches for your Sony computer by selecting Software Updates on the Sony PC Support web page at http://www.sony.com/pcsupport .
VAIO System Reference Manual	Provides detailed technical information about your computer's hardware. This document is available from Sony's website at http://www.sony.com/pcsupport .

Specifications

PCV-RX470DS/PCV-RX480DS

Model	PCV-RX470DS	PCV-RX480DS
Processor	1.50 GHz* Intel® Pentium® 4	1.70 GHz* Intel® Pentium® 4
Hard Disk Drive	60 GB†	80 GB†
C / D Partition (Approximate)	C = 16 GB / D = 44 GB	C = 16 GB / D = 64 GB
Standard Memory	128 MB PC-800 Rambus RIMM, expandable to 512 MB	
Video RAM	32 MB	
MPEG	"Sony Tuned" MPEG Digital Video supports full-screen video playback	
Graphics	NVIDIA® GeForce2 MX (AGP 4x) Graphics Acceleration	
Sound Capabilities	Analog Devices SoundMAX Integrated Digital Audio	
Floppy Disk Drive	3.5" 1.44 MB FDD	
CD-RW Drive	32X max. CD-ROM reading‡ 12X max. CD-R writing 32X max. CD-R reading 8X max. CD-RW writing 20X max. CD-RW reading	
DVD-ROM Drive	16X max. DVD-ROM (40X max. CD-ROM)**	
Modem	Lucent 1648 technology/V.90 compatible data/fax modem (REN 0.79B)††	
Expansion Capabilities	Hard disk drive bay	
Connection Capabilities (Front)	USB ports (2) i.LINK (4-pin) port	

Model	PCV-RX470DS	PCV-RX480DS
Connection Capabilities (Rear)	USB ports (2) PS/2® keyboard port PS/2® Mouse port VGA Monitor port LCD monitor (DVI) port Serial port Parallel (printer) port Game/MIDI port Headphones jack Line In jack Microphone jack i.LINK (6-pin) port Modem line jack(RJ-11) Phone line jack(RJ-11) 10Base-T/100Base-TX Fast Ethernet LAN jack (RJ-45)	
Supplied Accessories	VAIO Smart™ keyboard PS/2® wheel mouse Stereo speakers (PCVA-SP2) with AC adapter Power cord Modem cable i.LINK cable	
Service	90-day limited service. See Warranty Card.††	
Limited Warranty	90-day parts/labor standard. See Warranty Card.***	
Power Requirements	268 watts maximum	
Voltage	100-120 V~3.9A	
Dimensions	8.0"(w) x 14.2"(h) x 14.6"(d) (203 mm x 360 mm x 371 mm)	
Weight	28.7lbs (13kg)	
Operating Temperature	50 °F to 95 °F (+10 °C to 35 °C)	

* GHz denotes microprocessor internal clock speed; other factors may affect application performance.

† GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary.

‡ The CD-RW/CD-R/CD-ROM data transfer standard 1X rate is 150 Kilobytes per second (KBps).
 Data on a CD-RW is read at a variable transfer rate, ranging from 8X at the innermost track to 20X at the outermost track. The average data transfer rate is 14X (2100 KBps).
 Data on a CD-R/CD-ROM is read at a variable transfer rate, ranging from 13X at the innermost track to 32X at the outermost track. The average data transfer rate is 22.5X (4293 KBps).
 Data on a CD-RW/CD-R is written at a constant transfer rate of 2X, 4X, 8X (max for CD-RW), or 12X depending on the speed you select.

** The DVD-ROM data transfer standard 1X rate is 1350 KBps.

Data on a DVD-ROM is read at a variable transfer rate, ranging from 6.6X at the innermost track to 16X at the outermost track. The average data transfer rate is 11.3X (15255 KBps).

Data on a CD-RW is read at a variable transfer rate, ranging from 13X at the innermost track to 32X at the outermost track. The average data transfer rate is 22.5X (3375 KBps).

Data on a CD-R/CD-ROM is read at a variable transfer rate, ranging from 17.5X at the innermost track to 40X at the outermost track. The average data transfer rate is 28.6X (4293 KBps).

†† Maximum speed for faxing is 14.4 Kilobits per second (Kbps). Your modem is capable of downloading at 56 Kbps using K56flex technology or V.90. Your phone service, online service, or Internet Service Provider, however, may not support this technology or operate at this speed.

‡‡ Certain restrictions apply

*** Certain restrictions apply

Specifications are subject to change without notice.