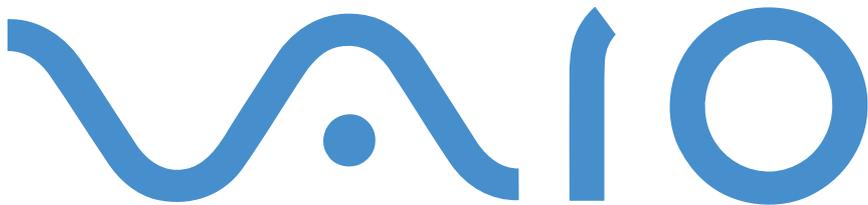


# ***About the software on your Sony Notebook***

**PCG-R600HEK**





## *Read this first*

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## About the software on your notebook

### SONY software



#### Center Jog Control

SONY Electronics

The Center Jog Control (VAIO Action Setup) allows you to configure the Center Jog Control on your computer. In this application, you can select the SONY applications, or others, that you want the Center Jog Control to pilot; you can also configure the Center Jog Control to start any application, establish a dial-up connection, or read an e-mail, simply by turning and pressing the Center Jog Control. Finally, the Center Jog Control allows you to configure your i.LINK™ connections, and to set a Timer that can launch any application at the time you select.



#### DVgate

SONY Electronics



DVgate is a kit of 3 complementary applications: DVgate Motion, DVgate Still, and DVgate Assemble. Edit the rushes you have shot with your digital video camera recorder using this video capture application, specially tuned for high-quality digital movies. When connected to your camera via i.LINK™, your computer operates as an editing desk that can preview, cut and assemble your selection and save the sequences in AVI and MPEG 1 formats. Attaching a DV device to the i.LINK™ connector enables you to transfer the images you have captured to your hard drive. DVgate Still displays digital video images sent from a digital video cassette recorder or a digital video camera recorder, and captures them as still pictures on your notebook.



## Memory Stick Formatter

*SONY Electronics*

Memory Stick Formatter is a special software for formatting Memory Sticks. Use this software whenever you reformat Memory Sticks. Moreover, you may be able to (re)format Memory Sticks that can not be identified on Windows by using this software. Memory Stick Formatter supports Memory Sticks with the following capacities: 4MB, 8MB, 16MB, 32MB, 64MB.

When you format Memory Sticks with this software, all data on the Memory Stick will be lost. If necessary, perform a backup of your data before formatting.



## MovieShaker

*SONY Electronics*

MovieShaker<sup>®</sup> creates personal movies - complete with transitions, special effects, background music, and text. All you do is import your clips, pick the tone you want and MovieShaker<sup>®</sup> does the rest. You can also choose to take control and produce your very own movie. You choose the exact clip order, special effects, and transitions. You can also import your own music and MovieShaker<sup>®</sup> will automatically match the length of the song to the length of your movie.



## OpenMG JukeBox

*SONY Electronics*

OpenMG is a copyright protection technology developed by SONY Corporation and designed to allow recording and playback of digital music data on a personal computer. Once the data is encrypted and recorded onto the hard disk, OpenMG technology allows it to be played back on the PC but prevents unauthorized distribution to the network. The purpose of OpenMG technology is to create an environment in which larger quantities of high-quality music can be distributed without subsequent unauthorized distribution of the music files.

Open MG Jukebox is the software element within the OpenMG system that encrypts and manages music files either downloaded to a personal computer by using the EMD services or adopted (or created) from your own CD or the Internet.



### *PictureGear*

*SONY Electronics*

Create your own environment with the Digital Image Library (photos, backgrounds, wallpapers, slide shows, etc). PictureGear is your assistant for creating and implementing personal screen savers, panoramas (combined images)... You can even animate your preferred Gif files with Gif Animation Tools, create labels for all your medias with PictureGear Label Maker, or play back movies in a variety of formats.



### *PowerPanel*

*SONY Electronics*

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



### *Smart Capture*

*SONY Electronics*

Connect a digital camera to your computer to shoot still images and video clips, which you can view or send by e-mail. The Smart Capture Finder displays images from the camera and allows you to adjust the settings or create effects. Smart Capture enables you to capture images via i.LINK™ compatible devices or create a panorama picture using the panorama assist function.



### *Smart Connect and Smart Connect Monitor*

*SONY Electronics*

With Smart Connect and Smart Connect Monitor you can copy, edit or delete files on another VAIO computer (equipped with Smart Connect) connected to your computer with an i.LINK™ cable. You can also print a document on a printer connected to another VAIO computer.



### *Sony Notebook Setup*

*SONY Electronics*

Use Sony Notebook Setup to confirm system information, specify preferences for system behavior, and change hardware settings for your SONY notebook.



### *UI Design Selector*

*SONY Electronics*

You can change the window design of the SONY Software compatible with UI Design Selector.



### *VAIO Action Setup*

*SONY Electronics*

VAIO Action Setup helps you manage application settings that control hardware events on your computer. For instance, this software enables you to start your favorite software with the Center Jog Control.



## VisualFlow

SONY Electronics

VisualFlow allows you to browse interactively through the contents of your Memory Sticks (optional). VisualFlow can display Memory Stick files in a variety of ways, and allows you to play / display still images, movies or sound files within VisualFlow or with other software.



## Product Recovery CD-ROMs

SONY

The Product Recovery CD-ROMs allow you to reinstall the system, the software shipped with your computer and the bundled device drivers if they are corrupted or accidentally erased. Reinstalling an individual device driver may correct a problem you are experiencing with your computer, and you may not need to recover the entire system.

! You can only use the Recovery CD-ROMs on the SONY notebook you purchased, and not on any other SONY PC or other manufacturer's PC.

## Operating system and other pre-installed software

Your SONY notebook is ready to help you work, play, learn, and communicate as soon as you turn it on. This section gives you an overview of the activities you can perform with the software installed on your notebook.



### Windows® 2000

*Microsoft Corporation*

Microsoft® Windows® 2000 makes your computer work better by integrating tightly with the Internet and networks and providing better system performance and easier system diagnostics and maintenance.

With Windows® 2000, your system plays better as well with support for the latest graphics, sound, and multimedia technologies, easy addition and removal of peripheral devices, and the convergence of the TV and PC in your home.

This exciting new operating system builds on the groundbreaking features introduced with Windows® NT. At the same time, Windows® 2000 maintains the best support for older Windows-based applications and technologies. For questions and technical assistance, go online to:

<http://support.microsoft.com/directory>



### Internet Explorer 5.5

*Microsoft Corporation*

Internet Explorer is the Internet browser of Microsoft. The Setup Wizard configures your computer to connect automatically to the service provider of your choice. A full e-mail package enables you to send and receive mail - including attached files - across the Internet. NetMeeting, Outlook Express and Microsoft Chat are just some of the components bundled with Internet Explorer 5.5. Internet Explorer 5.5 also includes 128-

bit encryption, the highest level of protection possible for all your Internet communications, including credit card use and financial transactions. A complete online tutorial helps new users become comfortable using the Internet. For questions and technical assistance, go online to:

<http://support.microsoft.com/directory>



## Adobe® Acrobat® Reader 4.1

*Adobe Systems Incorporated*

Acrobat® Reader software allows you to view, navigate, and print electronic documents in Adobe Portable Document Format (PDF), an open file format that is intended to preserve the fidelity of documents created on all major computer platforms. Once Acrobat® Reader is installed, you can open and view PDF files from within your web browser by clicking on a PDF file embedded in an HTML file. You quickly see the first page while the rest of the document is being downloaded. For questions and technical assistance, go online to

<http://www.adobe.com>



## Drag'n Drop CD 1.0

*DigiOn / Easy Systems Japan*

Drag'n Drop CD is designed to be the most simple software to make your own CDs. Users can create their own audio CDs or data CDs that can be read in many PCs. Drag'n Drop CD can also create your own backup CD from the original CD that you own. The operation is simple: select the files that you wish to write, and drag and drop them into an appropriate box that corresponds to the CD format. After dropping them, simply press the **CD Create** button. You can only use Drag'n Drop CD with your notebook's PCGA-DSM5 CD-RW/DVD docking station (optional). For questions and technical assistance, go online to:

<http://www.easy.co.jp/dde/sony>



## *RealPlayer 7.0*

*RealNetworks*

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

For further information, see the web site at:

<http://www.real.com>



## *QuickTime 4.1.2*

*Apple*

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

For further information, see the web site at:

<http://www.apple.com/quicktime>



## *WinDVD*

*InterVideo, Inc.*

InterVideo Inc.'s WinDVD is a simple-to-use DVD player that you can use in association with your notebook's PCGA-DSM5 CD-RW/DVD docking station or PCGA-DSD5 DVD docking station (both optional). WinDVD combines all the features you would expect to find in a standard consumer DVD player, in addition to some very advanced functionalities, such as full VCD 2.0 support, full precision video decode, a choice of user interfaces, and video display options. You can play DVD movies, interactive DVD titles, MPEG video content, Video CDs and audio CDs. WinDVD automatically determines the type of disk in the DVD drive and uses the correct playback method. For questions and technical assistance, go online to:

<http://www.intervideo.com>

## Using Smart Capture

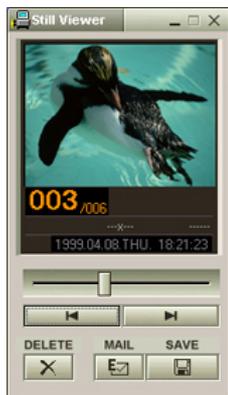
You can use Smart Capture to shoot still images and record video clips from a digital camera connected to your computer.

### Capturing still images

You can capture still images from i.LINK™ compatible devices.

To capture still images, proceed as follows:

- 1 Launch **Smart Capture** from the **Start** menu, in **Programs / Smart Capture / Smart Capture**. The **Finder** window appears, displaying the image of the subject.
- 2 Adjust the focus on the subject you want to shoot.
- 3 Click the **Capture** button in the **Smart Capture** window. The **Still Viewer** window appears with the image you shot in the **Still Image Display** area.



- 4 To end **Smart Capture** click the **X** button in the top right corner of the window.

 Make sure a camera is plugged to the i.LINK™ connector.

## Displaying captured images in Still Viewer

From the **Start** menu, select **Programs / Smart Capture** and click **Still Viewer**. You can display, save or delete your images or send them by e-mail.

To end **Still Viewer** click the  button.

- ★ You can capture still images in the following sizes: 640 x 480, 320 x 240, 160 x 120, 80 x 60, and 40 x 30 pixels.
- ★ When capturing a small resolution image (i.e. 80 x 60 or 40 x 30 pixels), the displayed image on the **Finder** window may appear blurred.
- ★ A gap may appear when a rapid-moving object is displayed. However this is not a malfunction.
- ★ If you start Smart Capture while no camera is plugged, the Smart Capture Finder screen will appear blue.
- ★ You can create a panorama picture by using **PictureGear 2.5SE** or higher.
- ★ You can capture still images and video clips from a digital video camera using **Smart Capture**.

## Sending still images via e-mail

To send still images via e-mail, proceed as follows:

- 1 Click the **Start** button on the **Windows®** taskbar.
- 2 Point to **Programs** and click **Smart Capture**.
- 3 Click **Still Viewer**.
- 4 Select the still image you want to send via e-mail, using **◀** or **▶**.
- 5 Click **Mail**.  
Your e-mail window appears with the selected file attached to your message.
- 6 Send the e-mail.

 You need to set up MAPI (Messaging Application Program Interface) when using the e-mail software. MAPI is a Microsoft® Windows program interface that enables you to send e-mails from within a Windows application and to attach the document you are working on to the e-mail note.

## Shooting video clips

You can use **Smart Capture** to capture video clips with a video camera connected to your computer, as well as play them or send them via e-mail.

To capture video clips, proceed as follows:

- 1 Launch **Smart Capture**.
- 2 Select **Movie** using the **Switch Capture Mode** button.  
The image appears in the **Finder**.
- 3 Turn the camera towards the subject.
- 4 Adjust the image.
- 5 Click the **Capture** button to shoot a video clip (you can shoot up to 60 seconds, according to the settings you chose in the **Recording options** section).
- 6 Click the **Capture** button when finished.  
The **Movie Player** window opens and the captured video clip appears in the **Movie Player** window.
- 7 Click ►| to playback the images. Click || to pause, ■ to stop playback.
- 8 To end **Smart Capture**, click .

 Make sure a camera is plugged to the i.LINK™ connector and turned on.

You can shoot video clips in the following formats:

### Non-compressed:

- Video 160 x 120, 24 bits, max. 10 frames/sec.
- Audio PCM, 11.025 kHz, 16 bits, monophonic

### Compressed:

- Video MPEG1 160 x 112, maximum of 30 frames/sec.).
- Audio MPEG1, 44.1 kHz (effective maximum equivalent to 11.025 kHz), monophonic.

A gap may appear when a rapid-moving object is displayed. However this is not a malfunction.



## *Sending video clips via e-mail*

If you shoot a video clip in a low resolution format, you can send it by e-mail.

To send video clips via e-mail, proceed as follows:

- 1 Click the **Start** button on the **Windows**<sup>®</sup> taskbar.
- 2 Point to **Programs** and then **Smart Capture**.
- 3 Click **Movie Player**.
- 4 Click **Mail**.  
The **Compression Settings** window opens.
- 5 Choose the compression rate by moving the slider.
- 6 Click **Start Compression**.  
When compression is completed, a window message asks you if you want to attach the file to your e-mail.
- 7 Accept and send the e-mail.

## Customizing your notebook

The following sections briefly describe how to change the main settings of your notebook. Among other things, you will learn how to prepare your modem for use, how to use and customize the look of your SONY software and utilities, etc.

### Configuring your modem

Before you can start using your internal modem, or each time you use your modem while travelling, make sure that the country of the active location defined in **Phone and Modem Options** matches the country you are dialing from.

To configure your modem, proceed as follows:

- 1 Click **Start**, point to **Settings**, and click **Control Panel**.
- 2 Double-click **Phone and Modem Options**.
- 3 Double-click the currently selected location on the **Dialing Rules** tab. If more than one location is available, double-click the location that is highlighted.  
The **Edit Location** dialog box appears.
- 4 Check the country/region settings, and make sure it matches the place you are dialing from.
- 5 If you modified your location settings, click **Apply** on the **Dialing Rules** tab, and then click **OK**.

 Before applying new country settings, please make sure your phone line is disconnected from your VAIO notebook.

## Changing your window design

You can change the window design of SONY software compatible with **UI Design Selector**.

To change the window design using UI Design Selector, proceed as follows:

- 1 Click **Start**, point **Settings**, then click **Control Panel**.
- 2 Double-click **UI Design Selector**.  
The **UI Design Selector** dialog box appears.
- 3 Click on << or >> and select the design you like.
- 4 Click **Apply**.  
The **UI Design Selector** window design changes, to give you a preview of the design you chose for the SONY **software**.
- 5 To try another design, click on << or >>.
- 6 Click **OK**, once you are satisfied with your choice.  
**UI Design Selector** disappears and changes the window design of SONY software as you selected.

## Setting up your notebook

The Sony Notebook Setup utility allows you to confirm system information, specify preferences for system behavior, and change hardware settings for your VAIO notebook.

To set up your notebook with Sony Notebook Setup, proceed as follows:

- 1 Click the **Start** button on the **Windows**<sup>®</sup> taskbar.
- 2 In Programs, select **Sony Notebook Setup** and then again **Sony Notebook Setup**. The **Basic** window appears; you can then enhance the features by clicking the **Basic / Advanced** tab.
- 3 Select the tab for the item you want to change.
- 4 Once finished, click **OK**.  
This dialog box contains the following tabs:

<i>Tab</i>	<i>Description</i>
About This Computer	Displays system information, including memory capacity, serial number, and BIOS version.
Printer	Selects printer port mode settings.
Initial Setting	Selects the drive and device order you wish to use for loading the operating system. You can specify the hard drive as well as other drives inserted into your computer. You can change the volume of the sounds while the operating system is loading.
Touchpad	When you connect an optional mouse to your computer, you can disable your touchpad. You can also customize your mouse settings using the mouse utility.
Power On Password	Sets the password to secure your computer.
Enable Ports	Disables port release resources to the system. To change the serial settings, click <b>Advanced</b> on the <b>Basic/ Advanced</b> tab.
Basic/Advanced	Toggles between <b>Advanced</b> mode (additional screens with advanced settings) and <b>Basic</b> mode of display. <b>Advanced</b> mode includes <b>Serial</b> and <b>View Resources</b> tabs.

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

You have to be logged on as Administrator to be able to use Sony Notebook Setup.

## Managing power

The **PowerPanel** utility controls the power management of your notebook and provides key information about system activity and battery life. The automatic power management selects the most advantageous profiles, or lets you customize the profiles you choose, according to your own needs, with the goal of extended battery life.

**PowerPanel** has the following features:

- ❑ Automatic Profile Selection (APS) based on the currently active application;
- ❑ Ability to select special Power Profiles manually from the menu;
- ❑ Ability to edit and create new profiles;
- ❑ Ability to display detailed battery information;
- ❑ It works in harmony with your Windows settings.

 You have to be logged on as Administrator or Power User to be able to change PowerPanel settings.

## Activating PowerPanel

When starting the computer, the **PowerPanel**  icon appears in the system tray by default.

When pointing on the **PowerPanel** icon, you will see a tooltip with the active power management profile.

You can select a power profile from the menu or a power management profile by right-clicking this icon.

You can use the **PowerPanel** toolbar as well:

To use the PowerPanel toolbar, proceed as follows:

- 1 Right-click the taskbar at the bottom of the screen.
- 2 Select **Toolbars** from the shortcut menu, then click **Power Management**.  
The **Power Management** toolbar appears on the taskbar (you can change it into a floating window by dragging and dropping it on your desktop).
- 3 Click on the first item in the toolbar to open the **Profile** menu.
- 4 Click the button corresponding to the profile.
- 5 The appropriate power management command will be activated.

 When you use the battery pack as power source, your system selects the **Maximum Battery Life** power management profile by default. If you select a different power management profile while using battery power, the same profile will be automatically selected the next time you use the battery pack to power your computer.

## Activating power management profiles

PowerPanel provides several predefined **power management profiles**. Each profile consists of a group of specific power management settings that are designed to meet specific power management goals, ranging from maximum power management to no power management.

### Main preset profiles

<i>Icon</i>	<i>Description</i>
	<b>Maximum Battery Life</b> – Provides power saving features to give you maximum battery life and good performance. It reduces the brightness of the display and puts it into <b>Standby</b> mode after a specified time period.
	<b>Maximum Performance</b> – Provides the best system performance while still conserving power.
	<b>AC Power</b> – The power management state when AC power is in use. PowerPanel automatically loads the AC profile unless you disable this feature.
	<b>Power Management Off</b> – Turns off all power management features such as <b>Standby</b> and <b>Hibernate</b> modes.

### Other preset profiles

<i>Icon</i>	<i>Description</i>
	<b>Word Processing</b> – Optimizes power management with longer timeouts on the hard disk and display screen. You can also establish settings for LCD (Video) Standby, Hard Disk Standby, and Standby to optimize power management for your system.
	<b>Spreadsheet</b> – Reduces the LCD brightness to 'medium', as your software does not require higher performance. The sleep timer is activated.

<i>Icon</i>	<i>Description</i>
	<b>Presentation</b> – Keeps the display on at all times while it conserves power. This option is ideal for slideshow presentations. You can establish settings for <b>LCD (Video) Standby</b> , <b>Hard Disk Standby</b> , and <b>Standby</b> to optimize power management for your system.
	<b>Communications</b> – Extends battery life by initiating a quick display time-out. You can also establish settings for <b>LCD (Video) Standby</b> , <b>Hard Disk Standby</b> , and <b>Standby</b> to optimize power management for your system.
	<b>Games</b> – Disables the display and the <b>Hard Disk Spindle Down</b> timer.
	<b>Camera</b> – Optimizes performance and power requirements for camera usage.
	<b>DVD</b> – Optimizes performance and power requirements for DVD usage.
	<b>Automatic Profile Selection</b> - Analyses the performance of each application you choose and matches the profiles to its needs.

## Activating power management commands

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

<i>Icon</i>	<i>Description</i>
	<b>Standby</b> – Puts the system into Standby mode, a power management state that saves the state of the system and peripheral devices in memory (RAM). Power consumption reduces to a minimum, and the system remains on. To return the system to the active state, press any key or the power switch on your computer.
	<b>Hibernate</b> – Provides for the lowest level of power consumption. The system writes the state of the system and peripheral devices to the hard disk and turns off the system power. To return the system to the original state, use the power switch to turn on power.

## Selecting automatic profiles

A Power Profile is a set of timer values for a variety of system devices. PowerPanel automatically selects the profile associated with the application you are using and changes profiles as you switch between applications.

Power Management lets your system enter energy saving modes by levelling some energy consuming parameters, such as LCD brightness, or hard disk activity.

To select automatic profiles, proceed as follows:

- 1 Right-click the **PowerPanel** icon on the taskbar.
- 2 Select **Profiles**.
- 3 Select **Automatic Profile Selection**.

Or,

- 1 Right-click the taskbar at the bottom of the screen.
- 2 Select **Toolbars** from the shortcut menu.
- 3 Select **Power Management**.

The **Power Management** toolbar appears in the taskbar.

Click the first icon on the **Power Management** toolbar.

 When using the notebook with a battery, the CPU can be set to **Maximum Battery Life** mode to save battery power.

## Displaying detailed battery information

You can display detailed information for the battery used in your computer. The following section briefly describes how to display your computer's general battery information.

To display battery information, proceed as follows:

- 1 Double-click on the **PowerPanel** icon in the taskbar.  
The **Battery Information** dialog box appears.
- 2 Select the **Battery** tab.  
This tab contains information such as the estimated time to empty and charging time.

<i>Battery icon</i>	<i>Battery status</i>
	discharging
	fully charged
	charging
	no battery

## *Displaying CPU information*

You can also view the level of performance of your notebook.

To do so, you just have to hover your cursor over the CPU icon in your taskbar.

You have two icons:



**Maximum Performance:** this icon appears when you use your notebook with the AC adapter, then the CPU operates at high speed.

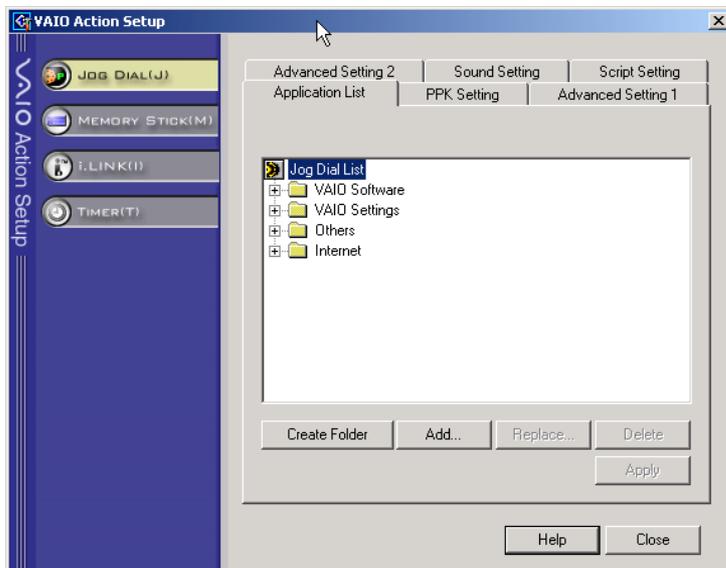


**Battery Optimized Performance:** this icon appears when you use your notebook with a battery, then the CPU operates at low speed.

## Starting your favorite software

The **VAIO Action Setup** software enables you to start your favorite software with the **Jog Dial**.

This section briefly describes how to use **VAIO Action Setup**. You can also refer to the VAIO Action Setup Help for more detailed information.



## Defining Center Jog Control settings

You can select the rotation direction, allocate functions to software that does not support the **Center Jog Control**, or select the sound effects while using the Center Jog Control, etc.

- 1 Right-click the Center Jog Control icon in the taskbar.
- 2 Select **Jog Dial Setup (VAIO Action Setup)** from the menu.  
The **VAIO Action Setup** window opens up.
- 3 In the **Advanced Setting 1** tab, set the Center Jog Control scroll direction and the turning direction of the Center Jog Control window by selecting the **Upward** or **Downward** option buttons.
- 4 In the **Advanced Setting 2** tab, define whether the window should only be shown while using the Center Jog Control. Select the **Show Jog Dial only when in use** option button, if the window should be shown only while using the Center Jog Control and enter the display time in the box underneath. Do not select the check box to see the window at all times.
- 5 In the **Sound Setting** tab, define the sound effect associated with the Center Jog Control functionality. Select the **Use sound when turning** check box to hear a sound when turning the Center Jog Control and enter the path and file name of the sound in the text box underneath. Select the **Use sound when pressing** check box to hear a sound when pressing the Center Jog Control and enter the path and file name of the sound in the text box underneath.
- 6 In the **Application List** tab, allocate functions to software that does not support the Center Jog Control. Click the **Create Folder** button to define a new software folder. Click the **Add, Replace, Delete** buttons to add, replace or delete a function in one of the software folders.

### *Modifying the Jog Dial application list*

Click on **Jog Dial(J)** on the left of the dialog box, and then select a folder or application you want to modify in the **Application List**. For more information on how to add, modify or delete elements in the Jog Dial List, read the **VAIO Action Setup** online help.

### *Using the internal timer*

Click on **Timer** at the left of the dialog box, and then select the application you want to link to the **Timer**. You can use the **Internal timer** to start software at a specific time. It can start applications even when the computer is in **Standby** or **Hibernate** mode.

### *Setting up i.LINK*

Click on **i.LINK™** at the left of the dialog box, and then select one of the available tabs.

## Selecting display modes

This notebook uses the Intel® video controller. You can select which display is used when the computer is connected to an external display.

To select a display, proceed as follows:

- 1 Click the **Start** button, select **Settings** and then click **Control Panel**.  
The **Control Panel** appears.
- 2 Double-click **Display**.  
The **Display Properties** dialog box appears.
- 3 Click the **Settings** tab.
- 4 Click the **Advanced** button.  
The **Digital Flat Panel (1024x768) and Intel® 82815 Graphics Controller Properties** dialog box appears.
- 5 Click the **Intel® Graphics Technology** tab.
- 6 Click the **Graphics Properties** button.
- 7 Select the **Driver Configuration** tab.
- 8 Select the **Synchronous Display Mode** check box.
- 9 Click **Apply**.
- 10 Select the **Devices** tab.
- 11 Select the type of display you want.
- 12 Click **Apply**.



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

Turn on the computer after you turned off the peripheral devices.

## Creating an Emergency Repair Disk (ERD)

The backup utility helps you create a copy of the data on your hard disk. In the event that the original data on your hard disk is accidentally erased or overwritten, or becomes inaccessible because of a hard disk malfunction, you can use the copy to restore your lost or damaged data.

To create an Emergency Repair Disk, proceed as follows:

- 1 Click **Start**.
- 2 Point to **Programs, Accessories**, then **System Tools** and finally **Backup**. The **Backup** window appears.
- 3 On the **Tools** menu, click **Create an Emergency Repair Disk**.
- 4 Follow the instructions that appear on your screen.

 You can use the floppy disk drive integrated in the optional docking station (PCGA-DSM5 CD-RW/DVDdocking station or PCGA-DSD5 DVD docking station).

You can also use a USB floppy disk drive on the undocked main unit. It is not possible to use any external USB floppy disk drive when the notebook is docked.

You will need a blank 1,44 MB floppy disk to create an Emergency Repair Disk.

It is recommended to recreate an Emergency Repair Disk each time your computer undergoes major changes (new program installation, ...).

The repair process relies on information that is saved in the systemroot/repair folder. You must not change or delete this folder.

Choosing '**Also back up the registry to the repair directory**' will save your current registry files in a folder within your systemroot/repair folder. This is useful if you need to recover your system in the event your hard disk has failed.

Additional information on the repair process is available in the help files (see the **Getting Started online book** in Introducing Windows® 2000 Professional)

## Using the product recovery CD-ROMs

The set of Product Recovery CD-ROMs supplied with your computer allow you to perform a full system recovery, help you to reinstall individual applications or the device drivers manually.

The system recovery process allows you to reinstall an image of the hard disk as it was when you started using your notebook.

Perform a **System Recovery** in the following cases:

- ❑ In the event of a serious system crash.
- ❑ If you want to modify the size of your partitions.

Perform an **Application Recovery** when you need to:

- ❑ Reinstall an individual driver if a device is not functioning properly.
- ❑ Reinstall an individual application in the case you have problems running it.

 You can use the CD-RW/DVD drive integrated in the optional docking station (PCGA-DSM5 CD-RW/DVD docking station or PCGA-DSD5 DVD docking station) to perform a recovery.

You can also connect the optional PCGA-CD51/A CD-ROM drive or the optional PCGA-CDRW52 CD-RW drive to the PC Card slot on your notebook. However, the PCGA-CDRW52 CD-RW drive will not work if the main unit is docked.

## Performing a system recovery

Use this option only when your system is seriously damaged, e.g., if Windows® does not work any longer, or your PC behaves abnormally, etc. The system recovery will completely reinstall the originally configured system on your C: drive. Your D: drive data will not be deleted if you choose to keep the same partition settings. If you decide to modify the size of your partitions, the existing data on both drives (C: and D:) will be deleted.

When performing a system recovery, you can opt for a **Standard Recovery** and an **Advanced Recovery**.

When choosing a **Standard Recovery**, you leave the current partition sizes untouched. When choosing an **Advanced Recovery**, you can adapt the partition sizes.

 You can only use these product recovery CD-ROMs on the Sony notebook you purchased and not on any other Sony PC or other manufacturer's PC!

The recovery process can last up to sixty minutes.

Please note that only the Advanced Recovery allows you to select the size of the C: partition when starting a recovery. When recovering your system, you also need to choose between FAT32 and NTFS for the file management system you want to use. The default option is FAT32. The Standard Recovery always chooses FAT32.

- ! Applying a system recovery means that you will lose all your data stored on your C: drive (and your D: drive if you modify partition settings).
- ! Make sure that your computer is connected to AC (not the batteries) before you attempt a system recovery.
- ! When the recovery is performed, you must remove the recovery CD-ROM from the drive before restarting the computer. If the CD-ROM is still in the drive, you will restart a recovery process.

## Performing a standard system recovery

To perform a standard system recovery, proceed as follows:

- 1 Take the system recovery CD-ROM.
- 2 Turn on your computer (using AC power only) and insert the system recovery CD-ROM in the CD-ROM/DVD-ROM drive.
- 3 Shut down your computer (**Start/Shut Down/Shut Down**).
- 4 Wait ten seconds.
- 5 Turn your computer back on.
- 6 On the first screen that appears, press **S (Standard)**.  
The system recovery CD screen appears, asking you if you are really sure you want to continue.
- 7 Click **Y (Yes)**.
- 8 You will be asked again whether you are really sure to continue.
- 9 Confirm.

 By default, your notebook file management system is FAT32. Only the **advanced recovery** allows you to format your files using either **FAT32** or **NTFS**. You can change your FAT32 file system to NTFS at any time. However, make sure you fully understand the concept of file management system under Windows® 2000 before switching from FAT32 to another file management system. For more information, carefully read the Windows® 2000 documentation and/or ask your system or network administrator.

You can only convert from FAT32 to NTFS, but not from NTFS to FAT32.

## Performing an advanced system recovery

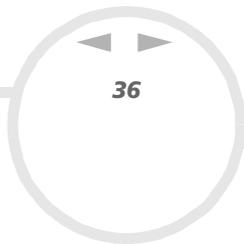
To perform an advanced system recovery, proceed as follows:

- 1 Take the system recovery CD-ROM.
- 2 Turn on your computer (using AC power only) and insert the system recovery CD-ROM in the CD-ROM drive.
- 3 Shut down your computer.
- 4 Wait ten seconds.
- 5 Turn your computer back on.
- 6 On the first screen that appears, press **A (Advanced)**.  
The system recovery CD screen appears, asking you what to do with the partitions on your hard disk. At this stage you have 3 options available.
  - Recovering the system without changing partitions.
  - Recovering the system with modified partition sizes.
  - Aborting the recovery process.

## Recovering the system without changing partitions

To recover the system without changing partitions, proceed as follows:

- 1 Press **C** to keep your current partitions.  
This is the recommended option if you do not need to modify the partition sizes and if you want to restore your C: drive while keeping the data on your D: drive untouched.
- 2 Press **G** to proceed with the system recovery.
- 3 Select the file system you want to use: **FAT32** or **NTFS**.
- 4 Follow the instructions on the screen.
- 5 When the recovery process is finished, remove the product recovery CD-ROM from the drive.
- 6 Press any key to restart your notebook.



### *Recovering the system with modified partition sizes*

To recover the system with modified partition sizes, proceed as follows:

- 1 Press **P** to modify partitions on your notebook.  
Select this option only if you need to change the sizes of your partitions.
  - 2 On the next screen, press **Y** to confirm the deletion of the current partitions.  
The next screen displays a selection of sizes for your new C: drive. According to the option you select, the recovery process will create 1 or 2 partitions on the hard disk.
  - 3 Confirm your selection on the next screen.
  - 4 Wait until the new partitions are created and the notebook reboots.
  - 5 Press **G** to proceed with the system recovery.
  - 6 Select the file system you want to use: **FAT32** or **NTFS**.
  - 7 Follow the instructions on the screen.
  - 8 When the recovery process is finished, remove the product recovery CD-ROM from the drive.
  - 9 Press any key to restart your notebook.
- ! Please note that this option will delete all existing data both on the C: and D: drives before starting the recovery.

### *Aborting the recovery process*

The recovery process always warns you when the decision you are asked to take cannot be undone. Whenever possible, the recovery screens allow you either to go back to the previous screen, or to abort the recovery process.

## Performing an application recovery

The application recovery utility allows you to reinstall individual applications. Reinstalling a program can fix the problems encountered if it does not run correctly anymore.

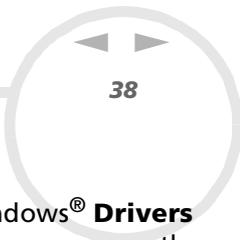
To perform an application recovery, proceed as follows:

- 1 Take the **last** product recovery CD-ROM.
- 2 Turn on your computer (using AC power only) and wait until Windows has booted up.
- 3 Insert the product recovery CD-ROM in the CD-ROM drive.
- 4 Open the CD-ROM drive through **Windows Explorer** and click on the **Apps** directory.
- 5 Open the directory which corresponds to the application that you want to recover.
- 6 Double-click the **Setup** program.
- 7 Follow the instructions in the **Installer**.

 You must run the last product recovery CD-ROM from Windows.

The application will not run from DOS.

When performing an application recovery, you do not lose data on your hard disk.



## Reinstalling a device driver

Some applications or peripherals require specific drivers which you will not find in the Windows® **Drivers** folder. To help you find or restore typical drivers needed by your pre-installed applications, you can use the last product recovery CD-ROM.

To reinstall a device driver, proceed as follows:

- 1 First check whether the driver you want to reinstall is on the **last** product recovery CD-ROM. Only device drivers that are not delivered with Windows® can be found in the **Drivers** folder.
- 2 Check all underlying sub-directories for the appropriate driver.
- 3 Next, launch the **Add/Remove Hardware** Wizard (click **Start**, point to **Settings/Control Panel**, and then double-click **Add/Remove Hardware** to install the appropriate device).

## Using partitioned drives

In **My Computer** or **Windows Explorer**, you may have noticed the availability of two drives (C: and D:): your hard disk drive comes from the factory with 2 logical partitions: this does not mean that your computer contains two physical hard disks.

When you start using your notebook, your C: drive contains all the files required by Windows and other pre-installed software, while the D: drive comes empty. The D: drive is the ideal storage space for all your documents, especially big ones like digital motion pictures captured with DVgate.

 While you can perform a system recovery and change the partition settings in order to have one C: drive only, this option is not recommended for using video editing applications like DVgate.

To optimize data storage, use the C: drive to install new applications, and save all your documents to the D: drive. Moreover, doing so will prevent the loss of your documents in the case you need to perform a system recovery.

Do not try to add, delete, or resize partitions unless you really need it. Changing partition settings might delete all your files on the hard disk.

If you need to perform a system recovery, but do not want to lose all the data stored on your hard disk, copy all the files you want to keep on the D: drive. During the system recovery process, choose to keep the current partition information. Doing so will keep your D: drive unchanged after the recovery process.

If you do need to change the size of your partitions, you can do so by performing a system recovery. In this case, it is important that all data on your hard disk will be deleted. If you need to keep existing files, be sure to back them up before performing the system recovery.