



SONY

V A I O

R E C O V E R Y
G u i d e

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VAIO RECOVERY

Introduction

Welcome to Sony's VAIO® Recovery system. The VAIO® Recovery system is made up of six different tools or programs to help you manage and maintain your Sony VAIO® computer. The various tools provide options to restore your computer to the original factory settings, reinstall specific factory-installed software applications and drivers, and assist in the configuration of RAID arrays for your hard disk. The six tools that make up the VAIO® Recovery System include:

- Create Recovery Discs
- Restore Windows® Only
- Reinstall Applications or Drivers
- Restore C: Drive
- Restore Complete System
- Reconfigure RAID

Before you begin

There are many things that can affect your computer's performance, such as adding/removing software, the working condition of peripherals, and a virus downloaded from the Internet. If you are experiencing difficulties with your computer's performance, it can be very difficult to troubleshoot. You may decide that the best option is to restore your system back to its original factory settings.

Note: Turn off screen savers before you begin any of the VAIO® Recovery options.

Before considering any of the options available in VAIO® Recovery, please review the following support site for the latest up-to-date information specific to your computer model:

- www.esupport.sony.com/EN/VAIO

Back up Your Data

WARNING - Before attempting any of the options in the VAIO® Recovery System, it is important to back up your data. Recovery operations can delete some or all of your data, depending on the selected recovery program.

Manage CDs and DVDs

The following types of media, CD or DVD, are supported to back up your data and/or to create the recovery discs necessary to perform some of the VAIO® Recovery options: CD-R, DVD-R and DVD+R.

Note: The following media are supported, but not recommended: CD-RW, DVD+RW, and DVD-RW. Double-layer DVD media are not supported.

The number of recordable CDs or DVDs required to create the recovery discs varies, depending on computer model purchased. Your computer must be equipped with a recordable optical drive, such as a CD-RW, DVD-RW, or DVD±RW drive.

TIP: Always use the highest quality of media possible when creating recovery discs, or when backing up your data. You may experience problems creating discs if you use a poor quality of media.

Start VAIO® Recovery

Sony equipped your computer with a hidden recovery drive partition, which contains the information and data necessary to restore your main C: drive partition, or to restore factory-installed programs and software drivers.

There are three methods you can use to access the VAIO® Recovery tools. The reasons for using a particular method varies with the current state of your computer. The three methods include: (1) Recovery Discs, (2) Windows® Start menu, and (3) F10 Function key on your keyboard.

Recovery Discs

Use the recovery discs to restore your system if:

- the main hard disk is replaced, or if the data becomes corrupted
- the hidden recovery drive partition has been removed from the hard disk
- restoring the system after changing the configuration of a RAID disk array (on VAIO® models configured for RAID storage).

To access VAIO® Recovery using the recovery discs

- 1 Insert disc number one into the applicable optical drive and close the drive.
- 2 Power off your computer.
- 3 Wait for approximately 30 seconds and power on your computer.

The VAIO® Recovery options page appears.

- 4 Click the title name to select the desired option.

Windows® Start Menu

If you have access to your computer's operating system, you can start the VAIO® Recovery System using the Windows® Start menu.

► To access VAIO® Recovery using the Windows Start menu

Do one of the following:

- Click the Windows® **Start** button, and from the menu select Control Panel. From the Category View, click **Performance and Maintenance**, and then click **VAIO® Recovery**.
- Click the Windows® **Start** button, and from the menu select Control Panel. From the Classic view, click **VAIO® Recovery**.
- Click the Windows® **Start** button, point to **All Programs**, and click **VAIO® Recovery**. Then from the submenu, click **VAIO® Recovery**.
- Click the Windows® **Start** button, point to **All Programs**, **VAIO Recovery**, **VAIO® Recovery Tools**, and then click the desired Recovery Tool from the submenu.

F10 Function Key

You can use the F10 function key on your keyboard to start VAIO® Recovery, however, you will only have access to the Restore C: Drive option.

► To access Restore C: Drive using the F10 function key

- 1 Power off your computer.
- 2 Wait for approximately 30 seconds and power on your computer.
- 3 When the VAIO® logo appears, briefly press the F10 key on your keyboard.

The VAIO® Recovery option Restore C: Drive appears.

Note: You cannot access the VAIO® Recovery main menu screen using the F10 method. Your computer will restart directly to the Restore C: Drive screen.

VAIO® Recovery Tools

The VAIO® Recovery system is made up of six different tools or programs to help you manage and maintain your Sony VAIO® computer.

- Create Recovery Discs
- Restore Windows® System
- Reinstall Applications or Drivers
- Restore C: Drive
- Restore Complete System
- Reconfigure RAID

Note: This option is only available if your computer was configured for RAID at the time of assembly. (Your computer was purchased RAID Ready.)

These tools provide options to restore your computer to the original factory settings, reinstall specific factory-installed software applications and drivers, and assist in the configuration of RAID arrays for your hard disk.



Create Recovery Discs

Use the Create Recovery Discs option to create the media discs necessary to recover your computer data in the event of a hard disk failure. Creating the recovery discs ensures that you can restore your computer's operating system and pre-installed software, even if the operating system and hidden recovery partition is not working.

► To create the recovery discs

- 1 Start the VAIO® Recovery program. See "Start VAIO® Recovery" on page 4.
- 2 From the VAIO® Recovery menu screen, click **Create Recovery Discs**.
- 3 Read the on-screen Create Recovery Discs information. When complete, click **Next**.
The Create Recovery Discs (Step 1 of 3) appears.
- 4 Depending on your choice of disc media (CD, DVD), click the appropriate option button. Sony recommends using CD-R, DVD-R, and DVD+R media.

Notes:

- If your computer does not have a recordable DVD drive, go to Step 5.
- If the size of the factory installed software is too large to fit on CD, the CD option will be removed.

Remember - Always use the highest quality of media possible when creating Media Kit discs. You may experience problems creating discs if you use a poor quality of media.

- 5 Click **Next**. The optical drive door opens and a message appears informing you to insert a blank disc.

Tip - For desktop models, do not close the drive door manually, unless necessary. This could cause problems writing to the disc.

- 6 Insert a blank media disc and click **OK**. (For notebook models, you must close the optical drive door manually.)

The next screen, Create Recovery Discs (Step 2 of 3), displays the name and supported format of each disc required to complete the Media Kit. This is for informational purposes only and requires no action on your part.

A time bar displays the progress of the creation of the media disc. The Time Remaining field displays the time left to complete the writing process for all required discs. Once the disc is full, a message appears requesting that you insert the next disc, if necessary. Click **OK** to continue.

Tip: Label each recovery disc to avoid confusion when using the discs for recovery procedures.

- 7 After the last disc is created, the Create Recovery Discs (Step 3 of 3) screen appears informing you that the creation process is complete. Click **Finish** to exit VAIO® Recovery.

This completes the VAIO® Recovery option Create Recovery Discs.



Restore Windows® Only

This is a feature of Microsoft® Windows® for restoring your computer to a previous working configuration from a designated point in time.

Before performing any restore or recovery options, go to the Sony online support Web site at www.esupport.sony.com and review your model-specific support page. Look for software driver updates, or check for knowledge base solutions that may help solve your computer's problems.

Start System Restore

The Microsoft feature System Restore monitors changes to your computer's configuration and creates snapshots of the configuration before changes occur. If a problem develops with your system files, you may be able to resolve the problem by using System Restore to restore your system to a point before the problem developed.

Note: Using System Restore does not affect your personal data files such as documents, pictures, e-mail, and Internet favorites. In addition, changes made by System Restore are reversible.

► To access System Restore

- 1 Start the VAIO® Recovery program. See "Start VAIO® Recovery" on page 4.
- 2 From the VAIO® Recovery menu screen, click **Restore Windows® Only**.
- 3 From the Restore Windows® Only screen, click the **Start System Restore** link.

The Microsoft® System Restore feature opens.

Follow the on-screen instructions. For additional information, see Windows® XP online help or visit the Microsoft® web site.



Reinstall Applications or Drivers

The Reinstall Applications or Drivers option restores one or more factory-installed programs or software drivers to their original condition before any updates or modifications. This feature is best used when a single or small number of factory-installed programs are not performing normally.

For optional software programs that came with your computer, such as Microsoft® Office®, use the CDs that came packaged with your computer, if reinstallation becomes necessary.

The Reinstall Applications or Drivers screen also provides a link, which takes you to Restore Windows® Only, in case the issue you are experiencing is Windows® based.

Before performing any restore or recovery options, go to the Sony online support Web site at www.esupport.sony.com and review your model-specific support page. Look for software driver updates, or check for knowledge base solutions that may help solve your computer's problems.

► To access Reinstall Applications or Drivers

- 1 Start the VAIO® Recovery program. See "Start VAIO® Recovery" on page 4.
- 2 From the VAIO® Recovery menu screen, click **Reinstall Applications or Drivers**.
- 3 Read the on-screen information, when complete click **Next**.

Two tab pages appear on the next screen (Step 1 of 3). The active tab page, Applications, lists all software programs available for recovery. The Drivers tab page lists all software drivers available for recovery. The available options on each tab page reflect what applications and drivers were originally installed at the factory.

Note: A text box, located below the list box displays information about each available option when selected. To display this information, click the name of the option.

- 4 Click the **Applications** tab or **Drivers** tab, as desired.
- 5 Select the desired check box(es) for the applications and/or drivers you wish to restore.

6 Click **Next** to begin the recovery process.

The next screen (Step 2 of 3) displays a time bar showing the progress of the application or driver recovery. During the recovery process, install screens of the individual software programs will appear as that program is installed.

When the installation is complete, screen (Step 3 of 3) informs you that selected program installations may not be finished. If a program installation window is still active, follow the directions to complete the recovery.

If there are no active installation windows, click **Back** to recover additional applications or drivers, or if all recoveries are complete, click **Finish** to exit VAIO® Recovery.

Note: After the recovery of any application or driver, you must restart your computer to update system and program files. Select **Restart now** to automatically restart your computer.

This completes the VAIO® Recovery option of Reinstall Applications or Drivers.



Restore C: Drive

The Restore C: Drive option restores the C: drive to its original factory condition. This includes all factory installed software. The time to complete the restore can take up to an hour depending on the amount of software being restored and the speed of your computer.

WARNING - Restore C: Drive deletes all personal files and settings, and any software installed on the C: drive after the computer was purchased.

The Restore C: Drive screen provides a link to Reinstall Applications or Drivers, which you can use for attempting to solve issues using a less invasive solution.

Note: The link to Reinstall Applications of Drivers, located on the Restore C: Drive screen, will only be available if you restart your computer from Windows®.

Before performing any restore or recovery options, go to the Sony online support Web site at www.esupport.sony.com and review your model-specific support page. Look for software driver updates, or check for knowledge base solutions that may help solve your computer's problems.

► **To access Restore C: Drive**

- 1 Start the VAIO® Recovery program. See "Start VAIO® Recovery" on page 4.
- 2 From the VAIO® Recovery menu screen, click **Restore C: Drive**.
- 3 Read the on-screen information (Step 1 of 4), then select the **I understand** check box. The **Next** button will be unavailable until the check box is selected.
- 4 Click **Next**.

If required, your computer restarts and displays the screen Restore C: Drive (Step 2 of 4). A time bar displays showing the progress of the first part of the C: drive recovery.

Note: If you started your computer from a recovery disc, a message may display requesting that you insert additional recovery discs. When complete, you are asked to remove the disc and insert disc 1. THIS COULD BE THE SAME DISC. Click OK. The program continues and prepares to restart. A message displays asking you to remove the disc. Click OK to continue.

The computer restarts and displays the Restore C: Drive (Step 3 of 4) screen.

This screen displays the progress of the last part of restoring the C: Drive to its original factory configuration, and the individual install screens of each software program as it is installed.

- 5 When the restore completes, the screen Restore C: Drive (Step 4 of 4) appears. Check for active program installation windows. Follow the on-screen instructions to complete the installation for that specific program. Continue until all active program windows are gone.

- 6 Click **Finish** to exit VAIO® Recovery and restart your computer. When your computer restarts, you are guided through a series of screens for Windows® set up. Follow the on-screen instructions.

This completes the VAIO® Recovery option of Restore C: Drive.



Restore Complete System

The Restore Complete System option restores the entire main hard drive to its original factory configuration. The time to complete the restore can vary depending on the amount of software being restored and the speed of your computer.

WARNING - Restore Complete System deletes all personal files and settings, and any software installed after the purchase of the computer.

This option is primarily for the following reasons:

- The main hard disk is replaced
- Change or modification of a RAID array configuration
- Restore the recovery drive partition on the main hard disk

The Restore Complete System main screen contains the following three links if you start your computer from Windows®:

Note: If you restart your computer from a recovery disc or from using the F10 key, only the Go to Restore C: Drive link displays.

Go to Restore C: Drive - Restores only the C: drive to its original factory configuration. This provides you with a less invasive option than restoring your complete system.

Restart from disc - Starts the Restore Complete System process using the recovery discs.

Create recovery discs - Allows you to create recovery discs if you have not done so previously, or have not purchased a set of recovery discs.

Note: A set of recovery discs are required to begin Restore Complete System.

Before performing any restore or recovery options, go to the Sony online support Web site at www.esupport.sony.com and review your model-specific support page.

► To access Restore Complete System

- 1 Start the VAIO® Recovery program. See "Start VAIO® Recovery" on page 4.
- 2 From the VAIO® Recovery menu screen, click **Restore Complete System**.

The introductory screen for Restore Complete System appears. Read the on-screen information.

- 3 Click **Restart from disc** if you have the recovery discs available; if not, click **Create recovery discs** and return to this screen when complete.

The optical drive door opens and a VAIO® Recovery message appears.

- 4 Insert the first recovery disc and click **OK**. (The optical drive door should close automatically; if not, gently push the disc holder in and the door will close.)

Your computer restarts and displays a screen with the following options:

- Restore C: Drive
- Restore Complete System
- Reconfigure RAID
This option is only available if your computer was configured for RAID at the time of assembly. (The computer was purchased "RAIO Ready.")

- 5 Click **Restore Complete System**.

The screen Restore Complete System (Step 1 of 5) appears. Carefully read the information on the screen.

This screen provides the link **Go to Restore C: Drive**, which will allow you to try a less invasive alternative to solve a potential problem other than Restore Complete System.

- 6 Select the **Keep the Recovery Drive [Recommended]** check box, if desired.
- 7 Select the **I understand** check box. The **Next** button becomes available.
- 8 Click **Next**.

Note: If you chose not to keep the current recovery drive, you will skip the Restore Complete System (Step 2 of 5) screen and move directly to the Restore Complete System (Step 3 of 5) screen. When the recovery process completes, remove the disc and click **OK** (Step 9).

The recovery process starts and the screen Restore Complete System (Step 2 of 5) appears, which displays a time bar showing the progress of this step.

This step recreates your computer's recovery drive based on the original factory configuration. When finished, the optical drive door opens and a VAIO® Recovery message appears asking you to remove the disc.

Note: If additional recovery discs are required to complete this part of the recovery, a VAIO® Recovery message appears asking you to insert the next disc and click **OK** to continue.

- 9 Remove the disc and click **OK**.

The computer restarts and the Restore Complete System (Step 3 of 5) screen appears with the time bar in the same state as in the last screen. The optical drive door may open and a VAIO® Recovery message displays asking you to insert recovery disc 1. (You may also be required to insert additional discs.)
- 10 INSERT THE SAME RECOVERY DISC AGAIN (from Step 9), and click **OK**.

If the optical drive door does not close, gently push in the disc holder. The recovery process automatically continues.
- 11 As the recovery process continues, you may be asked to insert additional discs depending on your choice of media. Insert the next disc and click **OK** to continue.

When this part of the recovery process completes, a VAIO® Recovery message may appear asking you to remove the disc and click **OK** to automatically restart the computer and resume the recovery process. (For notebook models, you must close the optical drive door manually.)

- 12 Click **OK**. This completes (Step 3 of 5).

The optical drive door closes and the computer restarts. (For notebook models, you must close the optical drive door manually.)

Note: If your computer previously started from a recovery disc, you may be asked to insert disc 1, click **OK**.

The screen Restore Complete System (Step 4 of 5) displays and automatically starts loading all original system and packaged software that was pre loaded at the factory.

Note: When you purchased your VAIO® computer, you may have received actual discs for software that was pre loaded on your computer, such as Microsoft® Office®. In this case, you will need to reload that software separately when the recovery is finished.

During this process, you can view some of the application install screens. No action should be required on your part. However, messages may display asking you to insert specific program discs to continue.

When the pre installed software has completed loading, the Restore Complete System (Step 5 of 5) screen appears. Respond to any active program installation windows that might still be open.

- 13 Remove any media in the optical disk drive and click **Finish** to exit VAIO® Recovery and restart your computer.

When your computer restarts, you are guided through a series of screens for Windows set up.

- 14 Follow the onscreen instructions. When complete, your computer restarts.

This completes the Restore Complete System option.



VAIO Recovery: RAID Options

Note: The following VAIO Recovery options are only available if your computer was configured for RAID at the time of assembly (Your computer was purchased “RAID Ready.”):

- Reconfigure RAID
- Intel Matrix Storage Console
- Delete a RAID Array

Reconfigure RAID

RAID (Redundant Array of Independent Disks) refers to the combining of two or more independent hard disks working in parallel to form a single logical array that stores data along with additional redundancy information.

Sony recommends using the Intel® Matrix Storage Driver/Console to manage your RAID array.

- If you already have this program installed on your computer, go to Intel® Matrix Storage Console. See page 19.
- If you do not have this program installed on your computer, download and install the program before continuing.

► **To download and install the Intel® Matrix Storage Console**

- 1 Start the VAIO® Recovery program. See the VAIO Recovery Guide, “Start VAIO® Recovery” on page 4.
- 2 From the VAIO® Recovery menu screen, click **Reconfigure RAID**.
The introductory screen for Reconfigure RAID appears.
- 3 Click **Go to Intel® Matrix Storage Console**.

One of the following three events occurs:

- VAIO® Recovery detects the Intel® Matrix Storage Console program and automatically starts the program. Go to “Intel® Matrix Storage Console.” on page 19.

- VAIO® Recovery detects Windows® is not installed. A message displays telling you the process cannot continue and directs you to go to Restore Complete System. When complete, the computer restarts and directs you through Windows® set up.

Note: If you restart the computer using recovery discs, you may see windows for anti-spy ware and anti-virus programs. Close all program windows and click **Cancel**, if necessary to return to the **Intel® Matrix Storage Console** (Step 3).

- VAIO® Recovery does not detect the Intel® Matrix Storage Console program. A message displays asking if you want to install the program now? (Click Yes or No) Go to Step 4.

4 Click **Yes**.

The drive door opens and a message displays asking you to remove the disc.

5 Remove the disc and click **OK**.

The computer restarts and displays a message to insert recovery disc 1.

6 Insert recovery disc 1 and click **OK**. The first Reinstall Applications or Drivers screen appears.

7 Click **Next** to continue.

8 Verify that the Applications tab is the active tab page. Search the list for Intel® Matrix Storage Console and select the associated check box.

Note: If you need to install the RAID driver, click the Drivers tab and select RAID Driver from the list.

9 Click **Next**.

VAIO® Recovery starts the installation of the selected applications and drivers. Install windows may appear that require action on your part to complete the installation. Follow the instructions.

This completes the download instructions for the Intel® Matrix Storage Console.

Intel® Matrix Storage Console.

The Intel® Matrix Storage Console provides RAID volume management within the Windows® operating system and displays SATA device and RAID volume information. RAID volume management includes creating, deleting, and migrating RAID volume arrays.

You can access the Intel® Matrix Storage Console from VAIO® Recovery or from the Windows® Start menu.

► **To access the Intel® Matrix Storage Console from VAIO Recovery:**

- 1 Start the VAIO® Recovery program. See “Start VAIO® Recovery” on page 4.
- 2 From the VAIO® Recovery menu screen, click **Reconfigure RAID**.

The introductory screen for Reconfigure RAID appears and contains the following three links:

- Go to Intel® Matrix Storage Console - Use this link if you want to add or change a RAID array.
- Restart from disc - Use this link if you want to delete or need to unlock a RAID array. This process requires that you restart the computer using recovery disc 1. If you do not have a set of recovery discs, click Create Recovery Discs.
- Create Recovery Discs - Use this link to create a set of recovery discs.

- 3 Click **Go to Intel® Matrix Storage Console**. The Intel® Matrix Storage Console program starts.

Note: When your computer restarts, and if you are using recovery discs, you may see windows for anti-spy ware and anti-virus programs. Close all program windows and continue.

▶ 4 To access the Intel® Matrix Storage Console from the Windows® Start menu:

- Click the Windows® Start button, point to **All Programs**, **Intel Matrix Storage Manager**, and then click **Intel® Matrix Storage Console** to start the program.

Follow the screen instructions, or review the available help information from the program or from the Intel® Web site.

Note: It is recommended to access the Intel® Matrix Storage Console from VAIO® Recovery to take advantage of VAIO's automated features.

Delete a RAID Array

While working in the Intel® Matrix Storage Console, you may find it necessary to delete a RAID array when migrating to other RAID levels, or discover that certain RAID arrays and/or levels are no longer available.

If the desired actions cannot be accomplished in the Intel® Matrix Storage Console, you must start VAIO® Recovery, delete the RAID array, and perform Restore Complete System. Then you can return to the Intel® Matrix Storage Console and reconfigure your RAID arrays.

WARNING - Restore Complete System deletes all personal files and settings, and any software installed after the purchase of the computer.

▶ To delete or unlock a RAID array

- 1 Start the VAIO Recovery program. See “Start VAIO® Recovery” on page 4.
- 2 From the VAIO® Recovery menu screen, click **Reconfigure RAID**.

The introductory screen for Reconfigure RAID appears.

3 Click **Restart from discs**.

The optical drive door opens and a message displays asking you to insert recovery disc 1.

4 Insert recovery disc 1 and click **OK**.

The computer restarts and displays a page with the following VAIO® Recovery options:

- Restore C: Drive
- Restore Complete System
- Reconfigure RAID

5 Click **Reconfigure RAID**.

A Reconfigure RAID page displays. Read the information.

6 Click **Next**.

Note: If for any reason a RAID array cannot be deleted, a message displays stating "No RAID Array Detected." Click **OK** to close the message and then click **Back** to return to the previous screen.

The Reconfigure RAID (Step 1 of 1) screen displays. Read the information on the screen including the WARNING statement.

7 Select the **I understand** check box and click **Next**.

The VAIO® Recovery program automatically deletes all RAID arrays on the hard disk drive. When complete, a message displays with instructions on completing the process.

8 Leave the disc in the optical drive and click **OK**.

The computer restarts and displays a screen with the following options:

- Restore C: Drive
- Restore Complete System
- Reconfigure RAID

- 9 Click Restore Complete System to restore all original factory-installed software.
See Restore Complete System, page 13 for step-by-step instructions to perform this procedure.
- 10 When complete, start the Intel® Matrix Storage Console and configure your RAID array(s), as desired.
- 11 See Intel® Matrix Storage Console, page 19 for additional information.

Support Resources

Documentation

VAIO® Computer User Guide

The online User Guide provides information about configuring, maintaining, and upgrading your computer. This resource offers a variety of topics allowing you to quickly view topic-specific information.

VAIO® Recovery/ RAID Guide

The VAIO® Recovery Guide provides information about the VAIO® Recovery program, which includes six tools to help you manage your computer. The RAID Guide provides information about configuring and managing RAID arrays for RAID-Ready VAIO® computers.

► To access the online documentation

- 1 Click **Start** in the Windows® taskbar, then click **All Programs**.
- 2 From the Programs menu, click **VAIO® Central**.
- 3 A window displays with the Categories tab page active.
- 4 Click the Documentation expand symbol (+).
- 5 Select the desired documentation.

Internet Information

Sony Support

The Sony eSupport site provides a single location for information and assistance for all of your Sony products.

www.esupport.sony.com/EN/VAIO

Intel® Web site

The Intel® Internet site provides a detailed overview of RAID, a description of RAID levels, and how to determine which RAID level is best for you. The site also contains links to detailed design and configuration documents and articles covering all required information to set up a RAID system. A brief tutorial is available for viewing, which demonstrates the features of various RAID levels.

www.intel.com

For additional RAID information, go to the Intel Internet site and search for “**RAID Primer**.” From the search results page, click the link titled **Intel® RAID Controllers - RAID Primer - What is RAID?**

Summary

This guide explained the features of the VAIO® Recovery program. In addition, detailed information and procedures were provided for how to use the six VAIO® Recovery Tools.