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VPCEG2/VPCEH2/VPCEJ2/VPCEK2/VPCEL2 Series

Use this manual if you encounter any problems, or have any questions about your VAIO computer.

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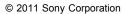
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VPCEG2/VPCEH2/VPCEJ2/VPCEK2/VPCEL2 Series

Use this manual if you encounter any problems, or have any questions about your VAIO computer.



VAIO User Guide VPCEG2/VPCEH2/VPCEJ2/VPCEK2/VPCEL2 Series

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Read This First

Congratulations on your purchase of this VAIO(R) computer and welcome to the on-screen User Guide.

About your VAIO computer's configuration

To find out about the configuration of your VAIO computer, follow these steps and visit the Sony online support website.

1. Click (19 (Start), All Programs, VAIO Care, and Contact Sony.

About configuration differences in your VAIO computer

Some features, options, and supplied items may not be available on your VAIO computer.

Features

Available features vary depending on the model or options you selected. Not all features described in this manual are available depending on your model.

Illustrations

Illustrations, photos, or screenshots in this manual may look slightly different depending on the model or options you selected.

Software

The preinstalled software may vary depending on the model or options you selected. The software described in this manual may not be preinstalled on your VAIO computer.

Supplied manuals

The following manuals are supplied with your VAIO computer.

On-screen documentation

• User Guide - Introduction version

A preinstalled manual with limited information of your VAIO computer focused on support and internet connection. The User Guide - Introduction version is replaced with a complete version of the **User Guide** (this manual) after update. [Details]

User Guide (this manual)

General information and operation instruction about your VAIO computer including support and troubleshooting information

Printed documentation

Quick Start Guide

An overview of components connection, set-up information, etc.

· Recovery, Backup and Troubleshooting Guide

Information on how to recover and back up your VAIO computer, as well as troubleshooting information

Safety Information

Read carefully before activating the wireless functions such as the wireless LAN and BLUETOOTH technology.

Other references

Help and Support

General information and technical assistance for your VAIO computer.

To access **Help and Support**, click (Start) and **Help and Support**.

Choose from the following categories to find the answers you need.

Get started with my VAIO	Get help with Internet and wireless setup, security setup, personalizing your VAIO computer, creating Recovery Media, and more.			
Use my VAIO	Get assistance with your VAIO computer by accessing useful information such as interactive VAIO tutorials, how-to articles, the VAIO technology page, specifications, and system and software information. The available information varies depending on the model you purchased. You can find useful documentation such as general and model specific user guide on the computer.			
Troubleshoot my VAIO	Maintain and troubleshoot your VAIO computer with VAIO Care , system restore, backup and recovery, and contact Sony support.			

Software help files

Software help files may be included with the preinstalled software on your VAIO computer. You may be able to access the help files from the help menu.

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 software, or such other information. In no event shall Sony Corporation be liable for any
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 otherwise, arising out of or in connection with this manual, the software, or other
 information contained herein or the use thereof.
- In the manual, the (TM) or (R) marks are not specified.
- Sony Corporation reserves the right to make any modification to this manual or the information contained herein at any time without notice. The software described herein is governed by the terms of a separate user license agreement.
- Sony Corporation is not liable and will not compensate for any lost recordings made to your VAIO computer, external recording media, or recording devices or any relevant losses, including when recordings are not made due to reasons including the computer failure, or when the contents of a recording are lost or damaged as a result of the computer failure or repair undertaken to the computer. Sony Corporation will not restore, recover, or replicate the recorded contents made to the computer, external recording media, or recording devices under any circumstances.
- Features and specifications are subject to change without notice.

Related Topic

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Parts and Controls on the Front

Describes the features on the front of the VAIO computer, such as buttons and indicator lights.

Parts and Controls on the Sides

Describes the features on the sides of the VAIO computer, such as connection ports.

Parts and Controls on the Bottom

Describes the features on the bottom of the VAIO computer.

You might be looking for the following topics:

Checking Supplied Items

Notes on Adding and Removing Memory Modules

Adding and Removing Memory Modules

Setting Up an Appropriate Work Environment

Booting Your VAIO Computer from External Devices

Customizing Your VAIO Computer

Viewing the System Information

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Battery

Installing/Removing the Battery Pack

Install the battery pack into the battery compartment on the bottom of your VAIO computer.

Charging the Battery Pack

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source.

You might be looking for the following topics:

Notes on Using the Battery Pack

Using Sleep Mode

Using Hibernate Mode

Notes on Sleep Mode

Selecting a Power Plan

Extending the Battery Life

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Power

Installing/Removing the Battery Pack

Install the battery pack into the battery compartment on the bottom of your VAIO computer.

Charging the Battery Pack

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source.

Connecting a Power Source

Connect your VAIO computer to an AC power source.

Turning on Your VAIO Computer

Turn on your VAIO Computer to start Windows.

Shutting Down Your VAIO Computer

Shut down your VAIO computer properly to avoid losing unsaved data.

You might be looking for the following topics:

Using Sleep Mode

Using Hibernate Mode

Notes on Using the Power Source

Notes on Sleep Mode

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Checking Supplied Items

Check all items packed with the product before use.

Notes on Adding and Removing Memory Modules

Before adding or removing memory modules, read the following precautions thoroughly.

Adding and Removing Memory Modules

If you want to increase computer speed, or to improve computer performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

Setting Up an Appropriate Work Environment

This topic describes where to or not to place your VAIO computer and ergonomic instructions.

You might be looking for the following topics:

Parts and Controls on the Front

Parts and Controls on the Sides

Parts and Controls on the Bottom

Booting Your VAIO Computer from External Devices

Customizing Your VAIO Computer

Viewing the System Information

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Memory module

Notes on Adding and Removing Memory Modules

Before adding or removing memory modules, read the following precautions thoroughly.

Adding and Removing Memory Modules

If you want to increase computer speed, or to improve computer performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

You might be looking for the following topics:

Viewing the System Information

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Using the Internet without Starting Windows (Quick Web Access)(the Web button)

The Quick Web Access function enables you to access the Internet without starting Windows.

You might be looking for the following topics:

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LAN

About the Internet Connection Services

The following types of Internet connection services are available.

About the Network (LAN)

The network (LAN) enables you to connect your VAIO computer to the Internet and transfer data between the computer and other devices.

Connecting to the Internet with a Wired Connection

Before using the Internet, you need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

About the Wireless LAN Standards

The Wireless Local Area Network (WLAN) allows your VAIO computer to connect to a network through a wireless connection.

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Connecting to the Internet with a Wired Connection

Before using the Internet, you need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

Using the Antivirus Software for Your VAIO Computer

Protect your VAIO computer against computer viruses by using the antivirus software.

About the Wireless LAN Standards

The Wireless Local Area Network (WLAN) allows your VAIO computer to connect to a network through a wireless connection.

Before Using the Wireless LAN

You first need to establish wireless LAN communications between your VAIO computer and an access point (not supplied) before connecting the computer to the Internet using the wireless LAN.

Starting Wireless LAN Communications

You can establish wireless LAN communications between your VAIO computer and an access point (not supplied) using VAIO Smart Network.

Stopping Wireless LAN Communications

Stop wireless LAN communications using VAIO Smart Network.

Notes on Using the Wireless LAN Function

Before using the wireless LAN function, read the following precautions for correct use.

About a Security Key for a Wireless LAN

A security key is a security protocol for a wireless LAN that encrypts data transmitted on the wireless LAN.

Using the Internet without Starting Windows (Quick Web Access)(the Web button)

The Quick Web Access function enables you to access the Internet without starting Windows.

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Wireless LAN

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About the Wireless LAN Standards

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Before Using the Wireless LAN

You first need to establish wireless LAN communications between your VAIO computer and an access point (not supplied) before connecting the computer to the Internet using the wireless LAN.

Starting Wireless LAN Communications

You can establish wireless LAN communications between your VAIO computer and an access point (not supplied) using VAIO Smart Network.

Stopping Wireless LAN Communications

Stop wireless LAN communications using VAIO Smart Network.

Notes on Using the Wireless LAN Function

Before using the wireless LAN function, read the following precautions for correct use.

About a Security Key for a Wireless LAN

A security key is a security protocol for a wireless LAN that encrypts data transmitted on the wireless LAN.

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Audio

Connecting External Speakers or Headphones

You can connect external sound output devices (such as speakers or headphones) to your VAIO computer.

Connecting an External Microphone

You can connect an external microphone to your VAIO computer and enjoy voice chat, etc.

Changing the Sound Output Device

If there is no sound from the device connected to your VAIO computer, you need to change the device for sound output.

Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

You might be looking for the following topics:

Adjusting the Speakers Volume Adjusting the Volume in Windows Adjusting the Microphone Volume

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Installing/Removing the Battery Pack

Install the battery pack into the battery compartment on the bottom of your VAIO computer.

You might be looking for the following topics:

Charging the Battery Pack
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Using the Multiple Monitor Function

The Multiple Monitor function allows you to distribute portions of your desktop across separate displays. For example, if you have an external display connected to the monitor port, the computer screen and the external display can function as a single desktop.

Connecting a TV with an HDMI Input Port

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

Connecting an External Display or Projector

You can connect an external display (such as a computer display or a projector) to your VAIO computer with a display cable (not supplied). Refer to the manual that came with your external display or projector for more information on installation and use.

Notes on the LCD screen

Read the following precautions for correct use of the LCD screen.

Selecting Display Modes

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

You might be looking for the following topics:

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Before using the Internet, you need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

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Optical digital output

Changing the Sound Output Device

If there is no sound from the device connected to your VAIO computer, you need to change the device for sound output.

Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

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Power

Installing/Removing the Battery Pack

Install the battery pack into the battery compartment on the bottom of your VAIO computer.

Connecting a Power Source

Connect your VAIO computer to an AC power source.

You might be looking for the following topics:

Charging the Battery Pack

Turning on Your VAIO Computer

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USB

Connecting a USB Device

You can connect a Universal Serial Bus (USB) device such as a mouse, floppy disk drive, speaker or printer to your VAIO computer.

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BLUETOOTH

About the BLUETOOTH(R) Function <BLUETOOTH equipped models>

You can establish wireless communications between your VAIO computer and other BLUETOOTH devices such as another computer, a mobile phone, modem, PDA, digital still camera, headset or mouse.

Communicating with Another BLUETOOTH(R) Device such as a Mouse <BLUETOOTH equipped models>

You can connect BLUETOOTH devices to your VAIO computer.

Stopping BLUETOOTH(R) Communications <BLUETOOTH equipped models> Stop BLUETOOTH communications using VAIO Smart Network.

Notes on Using the BLUETOOTH(R) Function <BLUETOOTH equipped models>

Before using the BLUETOOTH function, read the following precautions for correct use.

About BLUETOOTH(R) Security <BLUETOOTH equipped models>

The BLUETOOTH wireless technology has an authentication function, which allows you to control communication with other devices.

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CD/DVD/BD

Connecting an External DVD Drive

Connect an external DVD drive or hard disk drive to a USB port on your VAIO computer.

You might be looking for the following topics:

Booting Your VAIO Computer from External Devices

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

Inserting/Removing a Disc<Optical disc drive equipped models>

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HDMI

Connecting a TV with an HDMI Input Port

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

You might be looking for the following topics:

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

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The network (LAN) enables you to connect your VAIO computer to the Internet and transfer data between the computer and other devices.

Connecting to the Internet with a Wired Connection

Before using the Internet, you need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

Using the Antivirus Software for Your VAIO Computer

Protect your VAIO computer against computer viruses by using the antivirus software.

About the Wireless LAN Standards

The Wireless Local Area Network (WLAN) allows your VAIO computer to connect to a network through a wireless connection.

Before Using the Wireless LAN

You first need to establish wireless LAN communications between your VAIO computer and an access point (not supplied) before connecting the computer to the Internet using the wireless LAN.

Starting Wireless LAN Communications

You can establish wireless LAN communications between your VAIO computer and an access point (not supplied) using VAIO Smart Network.

Stopping Wireless LAN Communications

Stop wireless LAN communications using VAIO Smart Network.

Notes on Using the Wireless LAN Function

Before using the wireless LAN function, read the following precautions for correct use.

About a Security Key for a Wireless LAN

A security key is a security protocol for a wireless LAN that encrypts data transmitted on the wireless LAN.

You might be looking for the following topics:

Using the Internet without Starting Windows (Quick Web Access)(the Web button)

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Microphone

Connecting an External Microphone

You can connect an external microphone to your VAIO computer and enjoy voice chat, etc.

You might be looking for the following topics:

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Connecting an External Microphone

You can connect an external microphone to your VAIO computer and enjoy voice chat, etc.

Changing the Sound Output Device

If there is no sound from the device connected to your VAIO computer, you need to change the device for sound output.

Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

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Connecting an External Display or Projector

You can connect an external display (such as a computer display or a projector) to your VAIO computer with a display cable (not supplied). Refer to the manual that came with your external display or projector for more information on installation and use.

Notes on the LCD screen

Read the following precautions for correct use of the LCD screen.

Selecting Display Modes

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

You might be looking for the following topics:

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Speakers

Connecting External Speakers or Headphones

You can connect external sound output devices (such as speakers or headphones) to your VAIO computer.

You might be looking for the following topics:

Adjusting the Speakers Volume

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The following types of Internet connection services are available.

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The Wireless Local Area Network (WLAN) allows your VAIO computer to connect to a network through a wireless connection.

Before Using the Wireless LAN

You first need to establish wireless LAN communications between your VAIO computer and an access point (not supplied) before connecting the computer to the Internet using the wireless LAN.

Starting Wireless LAN Communications

You can establish wireless LAN communications between your VAIO computer and an access point (not supplied) using VAIO Smart Network.

Stopping Wireless LAN Communications

Stop wireless LAN communications using VAIO Smart Network.

Notes on Using the Wireless LAN Function

Before using the wireless LAN function, read the following precautions for correct use.

About a Security Key for a Wireless LAN

A security key is a security protocol for a wireless LAN that encrypts data transmitted on the wireless LAN.

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Audio

Adjusting the Speakers Volume

You can change the volume level of the speakers and headphones.

Changing the Sound Output Device

If there is no sound from the device connected to your VAIO computer, you need to change the device for sound output.

Adjusting the Volume in Windows

You can adjust the volume on each software application from the Control Panel window.

Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

Adjusting the Microphone Volume

You can adjust the microphone volume.

You might be looking for the following topics:

Connecting External Speakers or Headphones Connecting an External Microphone

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Battery

Notes on Using the Battery Pack

Before using the battery pack, read the following precautions for correct use.

Using Sleep Mode

In Sleep mode, all unnecessary devices of your VAIO computer are turned off, though some devices stay turned on to retain the computer's state including data you are working on. Sleep mode is useful when you take a short rest, for example.

Using Hibernate Mode

In Hibernate mode, the current state of your VAIO computer is saved to the built-in storage device, and then the computer is turned off. Hibernate mode is useful when you do not intend to use the computer for an extended period of time.

Notes on Sleep Mode

Read the following precautions before using Sleep mode.

Selecting a Power Plan

Power management helps you set up power plans to suit your requirements for power consumption.

You might be looking for the following topics:

Installing/Removing the Battery Pack Charging the Battery Pack Extending the Battery Life Charge Indicator Status List

About Power Saving Mode

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CD/DVD/BD

Booting Your VAIO Computer from External Devices

You can boot your VAIO computer from external devices, such as an optical disc drive or a USB floppy disk drive, by using the BIOS function.

You might be looking for the following topics:

Connecting an External DVD Drive

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

Inserting/Removing a Disc<Optical disc drive equipped models>

Supported Discs<Optical disc drive equipped models>

About Region Codes<Optical disc drive equipped models>

Handling Discs<Optical disc drive equipped models>

Notes on Using Discs<Optical disc drive equipped models>

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Display

Changing the Resolution (Size) of the Screen Image

You can change the screen resolution to adjust the size of the characters and images on the computer screen.

Using the Multiple Monitor Function

The Multiple Monitor function allows you to distribute portions of your desktop across separate displays. For example, if you have an external display connected to the monitor port, the computer screen and the external display can function as a single desktop.

Connecting a TV with an HDMI Input Port

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

Connecting an External Display or Projector

You can connect an external display (such as a computer display or a projector) to your VAIO computer with a display cable (not supplied). Refer to the manual that came with your external display or projector for more information on installation and use.

Notes on the LCD screen

Read the following precautions for correct use of the LCD screen.

Selecting Display Modes

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

Changing the LCD Brightness

You can adjust the LCD brightness.

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Keyboard

Changing the Button Assignment (VAIO Button)

You can change the current task assigned to the VAIO button.

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Microphone

Adjusting the Microphone Volume

You can adjust the microphone volume.

You might be looking for the following topics:

Connecting an External Microphone

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Password

Setting/Changing the Power-on Password

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

Removing the Power-on Password

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

Creating/Changing/Removing Your Windows Password

Setting the Windows password allows you to protect your VAIO computer from unauthorized access by making the user enter the password when the computer is turned on or returns from power saving mode to Normal mode.

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Using Sleep Mode

In Sleep mode, all unnecessary devices of your VAIO computer are turned off, though some devices stay turned on to retain the computer's state including data you are working on. Sleep mode is useful when you take a short rest, for example.

Using Hibernate Mode

In Hibernate mode, the current state of your VAIO computer is saved to the built-in storage device, and then the computer is turned off. Hibernate mode is useful when you do not intend to use the computer for an extended period of time.

Notes on Using the Power Source

Read the following precautions before plugging your VAIO computer into an AC power source.

Notes on Sleep Mode

Read the following precautions before using Sleep mode.

Selecting a Power Plan

Power management helps you set up power plans to suit your requirements for power consumption.

You might be looking for the following topics:

Installing/Removing the Battery Pack

Charging the Battery Pack

Connecting a Power Source

Turning on Your VAIO Computer

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Service and support

Using VAIO Update

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date.

Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

With VAIO Care, you can regularly conduct performance checks and tune-ups on your VAIO computer to keep it running at an optimum level. Launch VAIO Care whenever a problem arises.

Updating Your VAIO Computer

Be sure to update your VAIO computer with the following software applications to enhance the computer's efficiency, security, and functionality.

You might be looking for the following topics:

About Online Support Website Solving Common Problems with Your VAIO Computer

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Touch pad

Using the Touch Pad

By sliding your finger on the touch pad, you can move the pointer on the computer screen.

Enabling/Disabling the Touch Pad

You can enable/disable the touch pad on your VAIO computer.

Disabling the Tapping Function on the Touch Pad

You can disable the tapping function to avoid unintentional movements of the pointer caused by a light touch on the touch pad.

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BIOS

Booting Your VAIO Computer from External Devices

You can boot your VAIO computer from external devices, such as an optical disc drive or a USB floppy disk drive, by using the BIOS function.

Setting/Changing the Power-on Password

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

Removing the Power-on Password

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

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Button

Changing the Button Assignment (VAIO Button)

You can change the current task assigned to the VAIO button.

You might be looking for the following topics:

Using the Internet without Starting Windows (Quick Web Access)(the Web button) About the ASSIST Button

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Camera

Using the Built-in Camera < Built-in camera equipped models>

If your VAIO computer is equipped with a built-in camera, you can make a video call through the Internet using communication software, such as Windows Live Messenger.

You might be looking for the following topics:

Notes on the Built-in Camera <Built-in camera equipped models>

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HDMI

Connecting a TV with an HDMI Input Port

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

You might be looking for the following topics:

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

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Memory module

Viewing the System Information

You can view the system information of your VAIO computer.

You might be looking for the following topics:

Notes on Adding and Removing Memory Modules Adding and Removing Memory Modules

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Optical digital output

Changing the Sound Output Device

If there is no sound from the device connected to your VAIO computer, you need to change the device for sound output.

Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

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Changing the Sound Output Device

If there is no sound from the device connected to your VAIO computer, you need to change the device for sound output.

Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

Using the Multiple Monitor Function

The Multiple Monitor function allows you to distribute portions of your desktop across separate displays. For example, if you have an external display connected to the monitor port, the computer screen and the external display can function as a single desktop.

Connecting a TV with an HDMI Input Port

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

Connecting an External Display or Projector

You can connect an external display (such as a computer display or a projector) to your VAIO computer with a display cable (not supplied). Refer to the manual that came with your external display or projector for more information on installation and use.

Notes on the LCD screen

Read the following precautions for correct use of the LCD screen.

Selecting Display Modes

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

You might be looking for the following topics:

Connecting an External Microphone

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

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Updating Your VAIO Computer

Be sure to update your VAIO computer with the following software applications to enhance the computer's efficiency, security, and functionality.

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Speakers

Adjusting the Speakers Volume

You can change the volume level of the speakers and headphones.

You might be looking for the following topics:

Connecting External Speakers or Headphones



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VAIO computer

Booting Your VAIO Computer from External Devices

You can boot your VAIO computer from external devices, such as an optical disc drive or a USB floppy disk drive, by using the BIOS function.

Customizing Your VAIO Computer

VAIO Control Center allows you to access system information and to change settings of various kinds of functions such as display and sounds.

Viewing the System Information

You can view the system information of your VAIO computer.

Using VAIO Update

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date.

Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

With VAIO Care, you can regularly conduct performance checks and tune-ups on your VAIO computer to keep it running at an optimum level. Launch VAIO Care whenever a problem arises.

Updating Your VAIO Computer

Be sure to update your VAIO computer with the following software applications to enhance the computer's efficiency, security, and functionality.

You might be looking for the following topics:

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CD/DVD/BD

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

If your VAIO computer is equipped with the Blu-ray Disc Drive and the 3D graphics controller, you can play Blu-ray 3D Disc media and view 3D images on a 3D-capable display, such as a 3D TV, by connecting the display to the computer.

Inserting/Removing a Disc<Optical disc drive equipped models> Insert/remove a disc to/from your VAIO computer that is turned on.

Supported Discs<Optical disc drive equipped models>
The following table lists media types that are playable/recordable on your VAIO computer.

About Region Codes<Optical disc drive equipped models>

The following table lists DVD region codes indicating playable region of DVD media.

You might be looking for the following topics:

Connecting an External DVD Drive
Booting Your VAIO Computer from External Devices
Handling Discs<Optical disc drive equipped models>
Notes on Using Discs<Optical disc drive equipped models>

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Peripheral device

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

If your VAIO computer is equipped with the Blu-ray Disc Drive and the 3D graphics controller, you can play Blu-ray 3D Disc media and view 3D images on a 3D-capable display, such as a 3D TV, by connecting the display to the computer.

You might be looking for the following topics:

Connecting an External Microphone

Changing the Sound Output Device

Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

Using the Multiple Monitor Function

Connecting a TV with an HDMI Input Port

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HDMI

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

If your VAIO computer is equipped with the Blu-ray Disc Drive and the 3D graphics controller, you can play Blu-ray 3D Disc media and view 3D images on a 3D-capable display, such as a 3D TV, by connecting the display to the computer.

You might be looking for the following topics:

Connecting a TV with an HDMI Input Port Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device

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BIOS

Booting Your VAIO Computer from External Devices

You can boot your VAIO computer from external devices, such as an optical disc drive or a USB floppy disk drive, by using the BIOS function.

You might be looking for the following topics:

Setting/Changing the Power-on Password Removing the Power-on Password

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Built-in storage device

Creating Other Drives (modifying partitions)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

Creating Partitions during Recovery

There are two ways to create partitions: using Windows and creating during recovery.

Creating Partitions in Windows

The Windows feature allows you to create a partition without recovering your VAIO computer system.

Removing Recovery Contents to Free up Disk Space

Your built-in storage device contains the recovery area where the data for system recovery is stored. If your VAIO computer includes a solid state drive (SSD), you might want to minimize the recovery area by removing such data.

Checking the Volume of the Recovery Area

Your built-in storage device contains the recovery area where the data for the system recovery is stored.

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CD/DVD/BD

Booting Your VAIO Computer from External Devices

You can boot your VAIO computer from external devices, such as an optical disc drive or a USB floppy disk drive, by using the BIOS function.

You might be looking for the following topics:

Connecting an External DVD Drive

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

Inserting/Removing a Disc<Optical disc drive equipped models>

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Recovery

Removing Recovery Contents to Free up Disk Space

Your built-in storage device contains the recovery area where the data for system recovery is stored. If your VAIO computer includes a solid state drive (SSD), you might want to minimize the recovery area by removing such data.

About Recovery

Recovery is the process of restoring your VAIO computer back to its original factory condition.

Creating Recovery Media

Follow the instructions below to create Recovery Media.

Recovering from the Recovery Area

Recovery from the recovery area on the built-in storage device is faster than recovery using Recovery Media.

Recovering from Recovery Media

If the recovery area data has been corrupted or erased, you can use Recovery Media to recover your VAIO computer.

Notes on Recovery

Read the following notes thoroughly before recovering your VAIO computer.

Checking the Volume of the Recovery Area

Your built-in storage device contains the recovery area where the data for the system recovery is stored.

About the ASSIST Button

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

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Booting Your VAIO Computer from External Devices

You can boot your VAIO computer from external devices, such as an optical disc drive or a USB floppy disk drive, by using the BIOS function.

About the ASSIST Button

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

With VAIO Care, you can regularly conduct performance checks and tune-ups on your VAIO computer to keep it running at an optimum level. Launch VAIO Care whenever a problem arises.

You might be looking for the following topics:

Parts and Controls on the Front

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Backup

About Backup

The backup process creates a backup copy of your data stored on the built-in storage device and saves it to another location.

About Types of Backup

You can use the Windows Backup and Restore feature to back up your valuable data.

Creating a Restore Point

A restore point enables you to restore your computer system files to a previous state, depending on when the restore point was created.

Backing Up Your Data when You cannot Start Windows

If you cannot start Windows, back up your data with VAIO Care Rescue.

Restoring System Files Using the Restore Point when You cannot Start Windows

When you cannot start Windows, follow these steps to restore computer system files.

Restoring Your Data with VAIO Data Restore Tool

If you backed up files previously using VAIO Care Rescue, use VAIO Data Restore Tool to restore these files.

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Button

About the ASSIST Button

Press the ASSIST button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

You might be looking for the following topics:

Using the Internet without Starting Windows (Quick Web Access)(the Web button) Changing the Button Assignment (VAIO Button)

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Partition

Creating Other Drives (modifying partitions)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

Creating Partitions during Recovery

There are two ways to create partitions: using Windows and creating during recovery.

Creating Partitions in Windows

The Windows feature allows you to create a partition without recovering your VAIO computer system.

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Service and support

Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

With VAIO Care, you can regularly conduct performance checks and tune-ups on your VAIO computer to keep it running at an optimum level. Launch VAIO Care whenever a problem arises.

You might be looking for the following topics:

Using VAIO Update
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BIOS

Setting/Changing the Power-on Password

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

Removing the Power-on Password

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

You might be looking for the following topics:

Booting Your VAIO Computer from External Devices

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Password

Setting/Changing the Power-on Password

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

Removing the Power-on Password

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

Creating/Changing/Removing Your Windows Password

Setting the Windows password allows you to protect your VAIO computer from unauthorized access by making the user enter the password when the computer is turned on or returns from power saving mode to Normal mode.

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VAIO computer

Using VAIO Update

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date.

Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

With VAIO Care, you can regularly conduct performance checks and tune-ups on your VAIO computer to keep it running at an optimum level. Launch VAIO Care whenever a problem arises.

You might be looking for the following topics:

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Internet

Using the Antivirus Software for Your VAIO Computer

Protect your VAIO computer against computer viruses by using the antivirus software.

You might be looking for the following topics:

About the Internet Connection Services

About the Network (LAN)

Connecting to the Internet with a Wired Connection

About the Wireless LAN Standards

Before Using the Wireless LAN

Starting Wireless LAN Communications

Stopping Wireless LAN Communications

Notes on Using the Wireless LAN Function

About a Security Key for a Wireless LAN

Using the Internet without Starting Windows (Quick Web Access)(the Web button)

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Service and support

Using VAIO Update

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date.

Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

With VAIO Care, you can regularly conduct performance checks and tune-ups on your VAIO computer to keep it running at an optimum level. Launch VAIO Care whenever a problem arises.

You might be looking for the following topics:

Updating Your VAIO Computer
About Online Support Website
Solving Common Problems with Your VAIO Computer

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Battery

Charging the Battery Pack

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source.

Extending the Battery Life

When your VAIO computer is running on battery power, you can extend the battery life using the following methods.

Charge Indicator Status List

The charge indicator light turns on or blinks differently according to conditions.

About Power Saving Mode

Your VAIO computer has power saving modes to conserve power while you are not using the computer in addition to the normal operating mode.

Using Sleep Mode

In Sleep mode, all unnecessary devices of your VAIO computer are turned off, though some devices stay turned on to retain the computer's state including data you are working on. Sleep mode is useful when you take a short rest, for example.

Using Hibernate Mode

In Hibernate mode, the current state of your VAIO computer is saved to the built-in storage device, and then the computer is turned off. Hibernate mode is useful when you do not intend to use the computer for an extended period of time.

You might be looking for the following topics:

Installing/Removing the Battery Pack Notes on Using the Battery Pack Notes on Sleep Mode Selecting a Power Plan

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Button

Using the Internet without Starting Windows (Quick Web Access)(the Web button)

The Quick Web Access function enables you to access the Internet without starting Windows.

You might be looking for the following topics:

Changing the Button Assignment (VAIO Button)
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Camera

Using the Built-in Camera < Built-in camera equipped models>

If your VAIO computer is equipped with a built-in camera, you can make a video call through the Internet using communication software, such as Windows Live Messenger.

Notes on the Built-in Camera <Built-in camera equipped models>

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Keyboard

Combinations and Functions with the Fn Key

Press and hold down the Fn key and another key simultaneously to perform a keyboard shortcut action.

You might be looking for the following topics:

Changing the Button Assignment (VAIO Button)

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Memory module

Notes on Adding and Removing Memory Modules

Before adding or removing memory modules, read the following precautions thoroughly.

Adding and Removing Memory Modules

If you want to increase computer speed, or to improve computer performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

You might be looking for the following topics:

Viewing the System Information

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Power

Charging the Battery Pack

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source.

Turning on Your VAIO Computer

Turn on your VAIO Computer to start Windows.

Shutting Down Your VAIO Computer

Shut down your VAIO computer properly to avoid losing unsaved data.

Restarting Your VAIO Computer

After changing the settings or installing software on your VAIO computer, you may be required to restart the computer.

Charge Indicator Status List

The charge indicator light turns on or blinks differently according to conditions.

About Power Saving Mode

Your VAIO computer has power saving modes to conserve power while you are not using the computer in addition to the normal operating mode.

Using Sleep Mode

In Sleep mode, all unnecessary devices of your VAIO computer are turned off, though some devices stay turned on to retain the computer's state including data you are working on. Sleep mode is useful when you take a short rest, for example.

Using Hibernate Mode

In Hibernate mode, the current state of your VAIO computer is saved to the built-in storage device, and then the computer is turned off. Hibernate mode is useful when you do not intend to use the computer for an extended period of time.

You might be looking for the following topics:

Installing/Removing the Battery Pack Connecting a Power Source Notes on Using the Power Source Notes on Sleep Mode Selecting a Power Plan

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Connecting a USB Device

You can connect a Universal Serial Bus (USB) device such as a mouse, floppy disk drive, speaker or printer to your VAIO computer.

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Built-in storage device

Creating Other Drives (modifying partitions)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

Creating Partitions during Recovery

There are two ways to create partitions: using Windows and creating during recovery.

Creating Partitions in Windows

The Windows feature allows you to create a partition without recovering your VAIO computer system.

You might be looking for the following topics:

Removing Recovery Contents to Free up Disk Space Checking the Volume of the Recovery Area

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CD/DVD/BD

Inserting/Removing a Disc<Optical disc drive equipped models> Insert/remove a disc to/from your VAIO computer that is turned on.

You might be looking for the following topics:

Connecting an External DVD Drive

Booting Your VAIO Computer from External Devices

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

Supported Discs<Optical disc drive equipped models>

About Region Codes<Optical disc drive equipped models>

Handling Discs<Optical disc drive equipped models>

Notes on Using Discs<Optical disc drive equipped models>

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Internet

Using the Internet without Starting Windows (Quick Web Access)(the Web button)

The Quick Web Access function enables you to access the Internet without starting Windows.

You might be looking for the following topics:

About the Internet Connection Services

About the Network (LAN)

Connecting to the Internet with a Wired Connection

Using the Antivirus Software for Your VAIO Computer

About the Wireless LAN Standards

Before Using the Wireless LAN

Starting Wireless LAN Communications

Stopping Wireless LAN Communications

Notes on Using the Wireless LAN Function

About a Security Key for a Wireless LAN

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Memory card

About "Memory Stick"

"Memory Stick" is a compact, portable, and versatile IC recording media especially designed for exchanging and sharing digital data with compatible products, such as digital cameras and other devices. Because it is removable, it can be used for external data storage.

Compatible "Memory Stick"

The "Memory Stick Duo" slot on your VAIO computer can accommodate the following sizes and types of media:

Inserting/Removing "Memory Stick"

You can use "Memory Stick" to save data or transfer images between a digital camera and your VAIO computer. To insert/remove "Memory Stick", follow these steps.

Formatting "Memory Stick"

"Memory Stick" is formatted in the specific FAT format by default and is ready for use. Be sure to use the device that is designed to format the media and supports "Memory Stick" when formatting the media.

Notes on Using "Memory Stick"

Before using "Memory Stick", read the following precautions for correct use.

Inserting/Removing SD Memory Cards

Your VAIO computer is equipped with an SD memory card slot. You can use this slot to transfer data among digital cameras, camcorders, music players, and other audio/video devices.

Notes on Using SD Memory Cards

Before using SD memory cards, read the following precautions for correct use.

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Partition

Creating Other Drives (modifying partitions)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

Creating Partitions during Recovery

There are two ways to create partitions: using Windows and creating during recovery.

Creating Partitions in Windows

The Windows feature allows you to create a partition without recovering your VAIO computer system.

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Touch pad

Using the Touch Pad

By sliding your finger on the touch pad, you can move the pointer on the computer screen.

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Enabling/Disabling the Touch Pad
Disabling the Tapping Function on the Touch Pad

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VAIO computer

Notes on Adding and Removing Memory Modules

Before adding or removing memory modules, read the following precautions thoroughly.

Adding and Removing Memory Modules

If you want to increase computer speed, or to improve computer performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

You might be looking for the following topics:

Parts and Controls on the Front

Parts and Controls on the Sides

Parts and Controls on the Bottom

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CD/DVD/BD

Handling Discs<Optical disc drive equipped models>

Read the following to protect data stored on discs and take proper care of discs.

Notes on Using Discs<Optical disc drive equipped models>

Observe the following notes when using discs on your VAIO computer.

Supported Discs<Optical disc drive equipped models>

The following table lists media types that are playable/recordable on your VAIO computer.

About Region Codes<Optical disc drive equipped models>

The following table lists DVD region codes indicating playable region of DVD media.

You might be looking for the following topics:

Connecting an External DVD Drive

Booting Your VAIO Computer from External Devices

Playing Blu-ray 3D(TM) Disc Media on a 3D TV<Intel Graphics or NVIDIA video controller equipped models><Blu-ray Disc(TM) Drive equipped models>

Inserting/Removing a Disc<Optical disc drive equipped models>

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Important notice

About the Software License

This product contains software owned by Sony and licensed by third parties.

Safety Information

Refer to the supplied safety manual for detailed safety information.

Trademarks

About the International ENERGY STAR(R) Program

The following information is applicable to ENERGY STAR qualified products only.

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Read this first

Read This First

Congratulations on your purchase of this VAIO(R) computer and welcome to the on-screen User Guide.

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Service and support

Updating Your VAIO Computer

Be sure to update your VAIO computer with the following software applications to enhance the computer's efficiency, security, and functionality.

About Online Support Website

The online support website provides information about frequently asked questions about your VAIO computer.

Solving Common Problems with Your VAIO Computer

If you have any problem operating your VAIO computer, try these suggestions before contacting an authorized Sony service/support center or your local Sony dealer directly.

You might be looking for the following topics:

Using VAIO Update

Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

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VAIO computer

Checking Supplied Items

Check all items packed with the product before use.

Updating Your VAIO Computer

Be sure to update your VAIO computer with the following software applications to enhance the computer's efficiency, security, and functionality.

Setting Up an Appropriate Work Environment

This topic describes where to or not to place your VAIO computer and ergonomic instructions.

You might be looking for the following topics:

Parts and Controls on the Front

Parts and Controls on the Sides

Parts and Controls on the Bottom

Notes on Adding and Removing Memory Modules

Adding and Removing Memory Modules

Booting Your VAIO Computer from External Devices

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Care and maintenance

Cleaning Your VAIO computer/LCD screen

Before cleaning your VAIO computer, read the following precautions for the correct cleaning procedure.

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Product registration

About Online Support Website

The online support website provides information about frequently asked questions about your VAIO computer.

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Updating Your VAIO Computer

Be sure to update your VAIO computer with the following software applications to enhance the computer's efficiency, security, and functionality.

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Supplied items

Checking Supplied Items

Check all items packed with the product before use.

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Welcome

Congratulations on the purchase of this VAIO(R) computer.

This **User Guide - Introduction Version** provides you with limited information about your VAIO computer. To update this file to the complete version of the **User Guide**, see **Updating the User Guide to the Latest Version** for more information.

Contents

- Updating the User Guide to the Latest Version
- Connecting to the Internet
- Updating Your VAIO Computer
- Solving Problems on Your VAIO Computer Using VAIO Care
- Finding Support Information
- Trademarks

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Updating the User Guide to the Latest Version

The complete version of the **User Guide** is available online. Update this **User Guide** - **Introduction Version** to the complete version so that you can access it anytime even if you are offline.

With the complete version of the **User Guide** you can view information about:

- · Parts description
- Feature and operating instructions
- Precautions
- Troubleshooting information

Note

You will need to connect your VAIO computer to the Internet before updating to the complete version of the **User Guide**. See **Connecting to the Internet** for more information on connecting the computer to the Internet.

To get the complete version of the User Guide

By updating this **User Guide - Introduction Version**, you can get the complete version of the **User Guide** with detailed information on your VAIO computer.

- 1. Connect your VAIO computer to the Internet.
- 2. Close this window, and then click 🚳 (Start), All Programs, and VAIO Manual again.
- 3. A window prompting you to update the manual appears. Follow the on-screen instructions. This file will automatically update to the complete version of the **User Guide**.

Hint

- It may take some time to complete the update.
- If the window prompting you to update the **User Guide** does not appear, make sure your VAIO computer is connected to the Internet and repeat the above steps. If the update window still does not appear, launch **VAIO Update** so you can find and download the **User Guide** manually. See **Updating Your VAIO Computer** for more information on **VAIO Update**.

To view help files for Windows OS and software operations

When you have trouble operating your VAIO computer, try referring to **Windows Help and Support** or help files included with your applications.

Connecting to the Internet

You will need to connect your VAIO computer to the Internet before updating to the complete version of the User Guide.

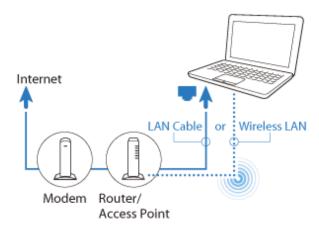
Before connecting to the Internet

Before using the Internet, you will need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

The following types of Internet connection services may be available from your ISP:

- Fiber to the Home (FTTH)
- Digital Subscriber Line (DSL)
- · Cable modem
- Satellite
- Dial-up

For more information on devices required for Internet access and how to connect your VAIO computer to the Internet, ask your ISP. The following is one of the Internet connection methods as an example.



To use the network (LAN)

You can connect your VAIO computer to networks with a LAN cable (not supplied). Connect one end of a LAN cable (not supplied) to the LAN port on the computer and the other end to your network. For detailed settings and devices required for LAN access, ask your network administrator.

Note

The connection, setting method, or required devices may vary depending on your network environment.

To use the wireless LAN network (Wi-Fi)

You first need to establish wireless LAN communications between your VAIO computer and an access point (not supplied). See **Windows Help and Support** for more information.

To start wireless LAN communications with VAIO Easy Connect

You can easily set up wireless LAN communications by following the instructions in **VAIO Easy Connect**. **VAIO Easy Connect** supports you especially when you first set up a wireless Internet connection at home or when you connect to a public wireless network (Wi-Fi hotspot).

- 1. Click 👸 (Start), All Programs, VAIO Easy Connect, and Easy Internet Connection Setup.
- 2. Follow the on-screen instructions to setup wireless LAN communications.

Updating Your VAIO Computer

Be sure to update your VAIO computer with the following software applications to enhance the computer's efficiency, security, and functionality.

Note

Your VAIO computer must be connected to the Internet to download the updates.

To use Windows Update

Windows Update enables you to make your VAIO computer more stable.

- 1. Click 🚳 (Start), All Programs, and Windows Update.
- 2. Follow the on-screen instructions.

To use VAIO Update

VAIO Update automatically notifies you of new updates available on the Internet then downloads and installs them on your VAIO computer.

- 1. Click (Start), All Programs, and VAIO Update.
- 2. Follow the on-screen instructions.

To update antivirus software

Help protect your VAIO computer against security threats by keeping Internet security programs current with the latest updates. You can download and install the updates from the website of the manufacturer.

- 1. Click **(Start)**, **All Programs**, and select the antivirus software.
- 2. Follow the on-screen instructions to complete the updates.

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Solving Problems on Your VAIO Computer Using VAIO Care

With **VAIO Care**, you can regularly conduct performance checks and system tune-ups on your VAIO computer to keep it running at optimum level. Launch **VAIO Care** whenever a problem arises.

VAIO Care will provide appropriate measures and support information to solve the problem.

To launch VAIO Care

Press the **ASSIST** button while your VAIO computer is on. Below is an example of the **VAIO Care** screenshot in English.



Do not press the **ASSIST** button while your VAIO computer is in Hibernate mode.

Hint

- Alternatively, click (Start), All Programs, and VAIO Care to launch VAIO Care.
- See the help file included with **VAIO Care** for more information.
- Pressing the **ASSIST** button while your VAIO computer is off launches **VAIO Care Rescue**. **VAIO Care Rescue** can be used to recover the computer in case of emergency, for example, when Windows does not start.

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Finding Support Information

The Sony online support website provides instant access to information on commonly encountered problems. You can find support information such as the support website URL in **VAIO Care** or the supplied **Quick Start Guide**.

To access Sony online support website from VAIO Care

- 1. Click (Start), All Programs, and VAIO Care.
- 2. Click Contact Sony.

Below is an example of the VAIO Care screenshot in English.



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About Online Support Website

The online support website provides information about frequently asked questions about your VAIO computer.

Sony online support website

- USA
 - http://esupport.sony.com/EN/VAIO/
- Canada
 - http://www.sony.ca/support/ (English) http://fr.sony.ca/support/ (French)
- · Spanish-speaking Latin American countries or areas http://esupport.sony.com/ES/VAIO/LA/
- Brazil http://esupport.sony.com/PT/VAIO/BR/

Hint

- If you experience any problem and have a technical question about your VAIO computer, launch VAIO Care first, which offers you various options to help you solve the problem.[Details]
- When you contact VAIO support, you may be asked for the serial number and the model number of your VAIO computer. The serial number is a 15-digit number that can be found:
 - in the VAIO Care window;
 - on the bottom or the back panel of the computer or inside the battery compartment;
 - on the original VAIO box.

The model number is located at the lower right corner of the display on the VAIO computer.

Other websites

You can find other useful information from the following URL.

Other Sony products

http://www.sony.net/

Operating system online support website

For Microsoft Windows operating system support, visit the Microsoft customer support site. http://support.microsoft.com/

In Store Service & Support (available in USA only)

Make an appointment with a Sony certified technician at a U.S. Sony Store and get personalized service and support for your VAIO computer. Sony Technicians can assist with the setup of your new VAIO computer, system optimization, data rescue, and any repair service you might need.

http://www.sony.com/store/

Hint

You can find a link to register your computer online in VAIO Care. Click (Start),

All Programs, VAIO Care, and Contact Sony.

Related Topic

Read This First Keeping Your VAIO Computer in Optimum Condition (VAIO Care)



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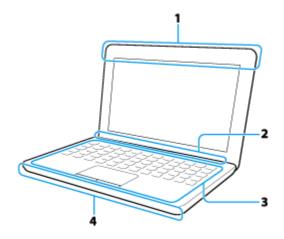
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Parts and Controls on the Front

Describes the features on the front of the VAIO computer, such as buttons and indicator lights.



- 1.
- Built-in microphone (monaural)
- Built-in camera indicator [Details]
- Built-in camera [Details]
- 2.
- Built-in speakers (stereo)
- 🕅 Num lock indicator
- A Caps lock indicator
- F Scroll lock indicator
- ASSIST button [Details]
- WEB button [Details]
- VAIO button [Details]
- Details
- 3.
- Keyboard
- Touch pad [Details]
- Left/right buttons [Details]
- 4.
- "Memory Stick Duo" slot [Details]
- Media access indicator ("Memory Stick Duo" [Details], SD memory card [Details])
- SD memory card slot [Details]
- WIRELESS switch [Details]
- WIRELESS indicator [Details]
- Details Power indicator Details
- +□ Charge indicator [Details]

Disc drive indicator

Related Topic

Parts and Controls on the Sides
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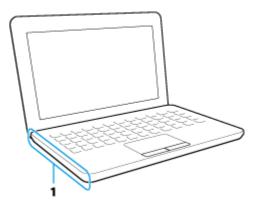
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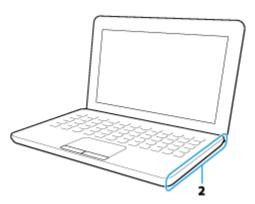
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Parts and Controls on the Sides

Describes the features on the sides of the VAIO computer, such as connection ports.



- 1.
- ⊝ DC IN port [Details]
- LAN port [Details]
- Monitor port [Details]
- HDMI output port [Details]
- Air exhaust vent
- ↓ USB port [Details]
- Microphone jack [Details]
- □ Headphones jack [Details]



- 2.
- ↓ USB ports × 3 [Details]
- Optical disc drive [Details]
- Drive eject button [Details], Manual eject hole
- Security slot

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Parts and Controls on the Bottom

Describes the features on the bottom of the VAIO computer.

- · Air intake vents
- Battery connector [Details]
- Memory module compartment cover [Details]

Related Topic

Parts and Controls on the Front Parts and Controls on the Sides

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Checking Supplied Items

Check all items packed with the product before use.

AC adapter

Power cord

Battery pack

Hint

 No recovery media is included because your VAIO computer can be recovered using data stored in the hard disk drive or SSD. See Recovering from the Recovery Area for more information.[Details]

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Notes on Adding and Removing Memory Modules

Before adding or removing memory modules, read the following precautions thoroughly.

- Your VAIO computer and memory modules use high precision components and electronic connector technology. To avoid invalidation of the warranty during your product warranty period, we recommend that:
 - You should contact your dealer to install a new memory module.
 - You should not install a memory module by yourself, if you are not familiar with upgrading memory on a computer.
 - You should not touch the connectors or open the memory module compartment cover
- For assistance, contact an authorized Sony service/support center. To find the nearest center or agent, refer to online support website. [Details]
- If you add or remove memory modules by yourself, your VAIO computer may result in malfunction or accident caused by breakage of slot and module, or connection mistake.
 In this case, repair fee will be charged.
- Be careful not to injure your hands or fingers with sharp edges of the memory module, inner components, or circuit boards of your VAIO computer.
- Be careful not to catch your fingers on any inner cables of your VAIO computer, as the cable may become loose or disconnected.
- If your VAIO computer is turned on while liquid such as water or other foreign object remain inside, it may cause a fire. Be sure to remove any foreign objects and attach the memory module compartment cover before turning on your VAIO computer.
- Sony does not guarantee that third party memory modules will work in your VAIO computer. For information on third party memory modules, consult the respective sales dealers.
- Be sure to turn off your VAIO computer and peripherals and disconnect all attachments and connection cables before adding or removing memory modules. Failure to do so may cause damage to the memory module, your VAIO computer, or peripheral devices.
- To prevent damage from electrostatic discharge to memory modules, follow the instructions below:
 - Do not work at a place that produce static electricity easily, such as on a carpet.
 - Before adding or removing memory modules, touch an external metal object from your VAIO computer to eliminate static electricity. Do not touch any metal parts inside the computer.
 - Do not open the memory module package before you are ready to install the module.
 The package protects the module from ESD (electrostatic discharge). To store the module, cover it with an antistatic bag or a sheet of aluminum foil.
- When holding a memory module, do not touch the chips or electrical terminal of the module.
- Do not insert a memory module into the slot facing in wrong direction. It may cause damage to the module or slot, or cause the circuit board to catch fire.
- Use a screwdriver that matches the size of the screw (such as a miniature screwdriver).
- Do not remove or loosen screws that are not specified to be removed.

Related Topic

Adding and Removing Memory Modules

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Adding and Removing Memory Modules

If you want to increase your computer's speed or improve performance when running programs simultaneously, increase the amount of memory by installing optional memory modules.

Before you upgrade your computer's memory, see Notes on Adding and Removing Memory Modules.[Details]

If you install memory modules into two or more slots, the dual-channel mode is enabled to help improve performance. (VPCEG/VPCEH/VPCEJ Series)

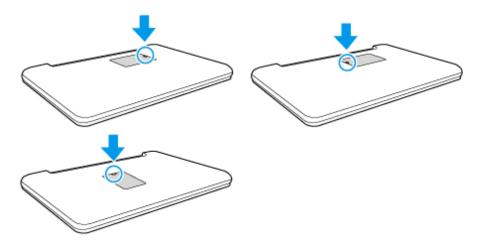
The type of module and the amount of memory installed on your computer may differ depending on the model.

- 1. Turn off your VAIO computer and peripheral devices, disconnect the power cord and all connection cables, and remove the battery pack.
- 2. Wait for a while until your VAIO computer cools down. The inner parts of your VAIO computer may be hot just after turning off. Be careful to avoid burns while handling your VAIO computer in this state.
- 3. Lay a clean cloth on a level, flat surface, place your VAIO computer on it as illustrated below. Remove the screws with a cross slot screwdriver to open the memory module compartment cover.

The screw locations are indicated by the arrows in the illustration below.

On some models, captive screws are used on the memory module compartment cover and cannot be detached from the cover.

The shape and location of the memory module compartment cover varies depending on models. Look at the bottom of your VAIO computer for its location.



- 4. Touch an external metal object to discharge static electricity. Do not touch any metal parts inside your VAIO computer.
- 5. If there is no free slot, remove the currently installed memory module. Pull the latches in the direction of the arrows to release the module (1), then pull the module out in the direction of the arrow (2).



- 6. Remove the new memory module from its antistatic bag.
- 7. Hold the memory module by its edge and slide it into the memory module slot with its end terminal facing downward while aligning the notch on the module with the small projection in the slot.



8. Hold the memory module by its edge and push in until it clicks into place as shown in the illustration.

The latches on both sides of the slot snap into place to secure the module. Do not touch any ICs (black components) on the memory module.



- **9.** Replace the memory module compartment cover and secure it with the screws you removed in step 3.
- **10.** Install the battery pack and connect all connection cables and peripherals that you removed in Step 1, and turn on the computer.
- **11.** Check that the amount of system memory has correctly changed. [Details] If the amount of indicated system memory is correct, memory module installation was successful.

Related Topic

Notes on Adding and Removing Memory Modules



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Setting Up an Appropriate Work Environment

This topic describes where to or not to place your VAIO computer and ergonomic instructions.

Where to place your VAIO computer

When placing your VAIO computer, ensure that:

- · You have easy access to a power source and necessary ports.
- · You leave enough space around the computer.
- The computer is placed on a flat surface that is wide enough and you can face the computer screen as you operate it.
- You can place the computer in front of you where you can sit upright and keep your forearms parallel to the floor.

Where not to place your VAIO computer

Placing your VAIO computer in an inappropriate location may cause damage or a malfunction. Do not place the computer in a location subject to:

- · Direct sunlight
- · Magnetic items or sources
- · Heat sources, such as residential heating equipment
- Excessive dust
- · High humidity
- Poor ventilation

Note

- The area around the air exhaust vent may become extremely hot while your VAIO computer is on. Be careful before touching the area.
- Do not place any object near the air exhaust vent that may block the vent.

Hint

 Your VAIO computer uses high-frequency radio signals and may cause interference to radio or TV reception. If this occurs, move the computer a suitable distance away from the radio or TV.

Ergonomic considerations

Whenever possible, you should attempt to take account of the following ergonomic considerations.

Furniture and posture

Sit in a chair with good back support. Adjust the level of the chair so your feet are flat on the floor. A footrest may make you more comfortable.

Sit in a relaxed, upright posture and avoid slouching forward or leaning far backwards.

Viewing angle of the computer screen

Use the screen tilting feature to find the best position. Make sure the computer screen is at

or slightly below eye level when you are sitting in front of your VAIO computer. Adjust the brightness level of the display as well.

You can reduce eye strain and muscle fatigue by adjusting the tilt and brightness level of the computer screen to the proper position.

Lighting

Choose a location where windows and lights do not cause glare and reflection on the computer screen. Use indirect lighting to avoid bright spots on the computer screen. Proper lighting adds to your comfort and work efficiency.

Note

 While adjusting the viewing angle, do not exert excessive pressure on your VAIO computer to eliminate a risk of mechanical damage.

Hint

• The same considerations apply when you use an external display.

Notes on handling your VAIO computer

Observe the following to avoid malfunctions and damage to your VAIO computer.

- Place your VAIO computer gently on a flat surface to avoid a mechanical shock.
- Be sure to turn off your VAIO computer before moving the computer. Moving the
 computer that is turned on may cause a hard disk malfunction. Be sure to disconnect all
 cables connected to the computer before moving it.
- Do not drop or hit your VAIO computer. Even a slight shock or vibration may cause a hard disk malfunction.
- Do not place your VAIO computer in an unstable position.



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Booting Your VAIO Computer from External Devices

You can boot your VAIO computer from external devices, such as an optical disc drive or a USB floppy disk drive, by using the BIOS function.

- 1. Connect an external device to your VAIO computer and turn on the computer.
- 2. Press the F11 key repeatedly until the VAIO logo disappears.
 The booting process from the external device starts. If your VAIO computer does not boot up, restart the computer and try again.

Note

- Disconnect all devices from your VAIO computer except for the external device from which you intend to boot up. Some devices cannot be used to boot the computer, or cannot be used with the computer.
- If an AC adapter is supplied with the external device, be sure to connect it to an AC power source in advance.



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Customizing Your VAIO Computer

VAIO Control Center allows you to access system information and to change settings of various kinds of functions such as display and sounds.

- 1. Click ((Start), All Programs, and VAIO Control Center.
- 2. Select your desired item and change the settings.

Hint

- Refer to the help file included with **VAIO Control Center** for more information on each option.
- Some of the items will not be visible if you log on as a user without administrative rights.

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Viewing the System Information

You can view the system information of your VAIO computer. For example, after installing a memory module, you can view the information to confirm system memory changes.

- 1. Click ((Start), All Programs, and VAIO Control Center.
- 2. Click System Information and System Information. The system information of your VAIO computer is displayed.

Related Topic

Notes on Adding and Removing Memory Modules Adding and Removing Memory Modules

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Using VAIO Update

VAIO Update provides a service that informs you of available update information, such as important notices or update programs, to keep your VAIO computer up to date. Through the Internet, VAIO Update automatically detects the update programs that are necessary for enhancing your computer's performance or new software that is available, and let you download and install with simple steps.

1. Double-click [4] (the **VAIO Update** icon) located in the Windows desktop notification area in the bottom-right of the desktop.

When VAIO Update is launched for the first time, the initial settings window appears. Follow the instructions in the window.

Hint

Refer to the help file included with VAIO Update for more information.

Related Topic

Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

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Keeping Your VAIO Computer in Optimum Condition (VAIO Care)

With **VAIO Care**, you can regularly conduct performance checks and tune-ups on your VAIO computer to keep it running at an optimum level. Launch **VAIO Care** whenever a problem arises. **VAIO Care** will provide appropriate measures and support information to solve the problem.

Press the ASSIST button while your VAIO computer is on.
 VAIO Care starts.
 Refer to the help file included with VAIO Care for more information.

Note

• Do not press the **ASSIST** button while your VAIO computer is in Hibernate mode.

Hint

- Alternatively, click (Start), All Programs, and VAIO Care to start VAIO Care.
- Pressing the ASSIST button while your VAIO computer is off launches VAIO Care
 Rescue. VAIO Care Rescue can be used to recover the computer in case of
 emergency, for example, if Windows does not start.

Related Topic

Recovering from the Recovery Area
Backing Up Your Data when You cannot Start Windows
Restoring Your Data with VAIO Data Restore Tool

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Updating Your VAIO Computer

Be sure to update your VAIO computer with the following software applications to enhance the computer's efficiency, security, and functionality.

Note

• Your VAIO computer must be connected to the Internet to download the updates.

Windows Update

Windows Update enables you to make your VAIO computer more stable.

- 1. Click ((Start), All Programs, and Windows Update.
- 2. Follow the on-screen instructions.

VAIO Update

VAIO Update automatically notifies you of new updates available on the Internet, and downloads and installs them on your VAIO computer.

- 1. Click (Start), All Programs, and VAIO Update.
- 2. Follow the on-screen instructions.

Related Topic

Using VAIO Update

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About the ASSIST Button

Press the **ASSIST** button to perform regular maintenance of your VAIO computer or to solve problems you might encounter when using the computer.

While the computer is on, the **ASSIST** button starts **VAIO Care**.

While the computer is off, the **ASSIST** button starts **VAIO Care Rescue**.

VAIO Care Rescue can be used to recover the computer in case of emergency, for example, when Windows does not start.

Note

• Do not press the **ASSIST** button while your VAIO computer is in Hibernate mode.

Related Topic

Keeping Your VAIO Computer in Optimum Condition (VAIO Care)
Recovering from the Recovery Area
Backing Up Your Data when You cannot Start Windows
Restoring Your Data with VAIO Data Restore Tool

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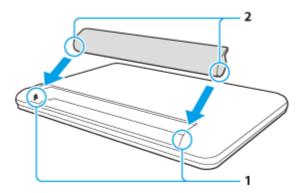
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Installing/Removing the Battery Pack

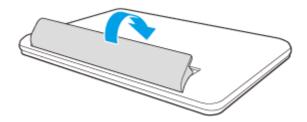
Install the battery pack into the battery compartment on the bottom of your VAIO computer.

To install the battery pack

- 1. Turn off your VAIO computer and close the LCD screen lid.
- 2. Slide the battery **LOCK** switch to the unlock position.
- **3.** Slide the battery pack diagonally into the battery compartment until the projections (1) on either side of the battery compartment fit into the grooves (2) on either side of the battery pack.



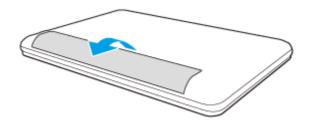
4. Turn the battery pack in the direction of the arrow and push the battery pack down into the compartment until it clicks into place.



5. Slide the battery **LOCK** switch to the **LOCK** position to secure the battery pack on your VAIO computer.

To remove the battery pack

- 1. Turn off your VAIO computer and close the LCD screen lid.
- 2. Slide the battery **LOCK** switch to the unlock position.
- **3.** Slide and hold the battery **RELEASE** latch, put your fingertip underneath the tab on the battery pack, and lift the battery pack in the direction of the arrow.



4. Slide the battery pack diagonally to take out from your VAIO computer.

Note

You will lose all unsaved data if you remove the battery pack while your VAIO computer
is on or in Sleep mode and not connected to the AC adapter.
 Be sure to turn off the computer before removing the battery pack.

Related Topic

Charging the Battery Pack
Notes on Using the Battery Pack
Shutting Down Your VAIO Computer

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Charging the Battery Pack

The battery pack can be charged even while you are using your VAIO computer when the computer is connected to a power source. The charging time may vary depending on operating conditions.

- 1. Install the battery pack into your VAIO computer. [Details]
- 2. Plug your VAIO computer into an AC outlet. [Details]

Hint

- The charging time varies depending on ambient temperature.
 Note that at a low ambient temperature, it takes longer time to charge the battery pack.
- To check the battery status of your VAIO computer, click the battery icon, such as (on battery) or (plugged in), in the desktop notification area.

Related Topic

Charge Indicator Status List Extending the Battery Life

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Notes on Using the Battery Pack

Before using the battery pack, read the following precautions for correct use.

About the battery pack

- The supplied battery pack is designed specifically for your VAIO computer.
- For your safety, only use the supplied battery pack or an optional battery pack that is specified by Sony.
- For safety reasons, battery charging may be suspended at higher or lower temperatures.
- While your VAIO computer is connected to an AC outlet with the AC adapter, it runs on AC power, even if the battery pack is installed.
- The supplied battery pack is not fully charged at the time of delivery.
- While the battery pack is in use or being charged, heat builds up in the battery pack. This is normal and is not cause for concern.
- Do not use your VAIO computer without installing the battery pack as it may cause the computer to malfunction.

About battery discharge

After battery charge, the battery pack will gradually discharge over time even while not in use. If it is left unused for an extended period of time, the battery power may be depleted. It is recommended that you recharge the battery pack before use.

About battery life

Battery life varies depending on usage and settings.

About battery deterioration and replacement

- The battery pack is consumable. The capacity gradually declines through repeated cycles of recharging and discharging. As a result, the battery life becomes short even if it is fully charged and eventually the battery pack reaches the end of its life. If the battery life has become short, check the battery status and replace the battery pack with a new one specified by Sony.
- · If the battery pack quickly runs out of power after being fully charged or it has reached the end of its life, replace it with a new one.

When using the power saving mode

If the battery pack runs out during Sleep mode, all unsaved data before your VAIO computer enters Sleep mode will be lost and cannot be restored. Be sure to save all data before placing the computer into Sleep mode.

In Hibernate mode, all data and status (such as window position, size, etc.) are saved to the built-in storage device, so no data will be lost even if the battery pack runs out. If you cannot connect the computer to an AC power source for an extended period of time, place the computer into Hibernate mode.

When the battery pack is running out of power

• If the battery pack runs out during your absence, power will be cut off and any data you are working on will be lost. While your VAIO computer is running on battery power, save data frequently and manually place the computer into Hibernate mode if necessary.

Related Topic

Notes on Using the Power Source



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Using Sleep Mode

In Sleep mode, all unnecessary devices of your VAIO computer are turned off, though some devices stay turned on to retain the computer's state including data you are working on. Sleep mode is useful when you take a short rest, for example.

The power indicator light blinks in orange slowly while your VAIO computer is in this mode. When the computer is running on battery power and a certain time has passed after the computer enters Sleep mode, the computer will enter Hibernate mode at the default setting.

To activate Sleep mode

1. Click ((Start), (arrow) next to the Shut down button, and Sleep.

Hint

- The operations below also place your VAIO computer into Sleep mode.
 - Press the power button (at a default setting). Note that if you press and hold down the power button for more than four seconds, your VAIO computer will turn off automatically. Doing this will erase all unsaved data.

To return to Normal mode

1. Press any key on the keyboard.

Note

. If you do not intend to use your VAIO computer for an extended period of time while the computer is disconnected from an AC power source, place the computer into Hibernate mode, or turn it off.

Hint

- The operations below also restore your VAIO computer from Sleep mode to Normal mode.
 - Press the power button.
 - Note that if you press and hold down the power button for more than four seconds, your VAIO computer will turn off automatically. Doing this will erase all unsaved data.
- By default, your VAIO computer enters Sleep mode automatically after about 30 minutes of inactivity while running on AC power.

Related Topic

About Power Saving Mode Using Hibernate Mode Notes on Using the Power Source Notes on Sleep Mode Extending the Battery Life



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Using Hibernate Mode

In Hibernate mode, the current state of your VAIO computer is saved to the built-in storage device, and then the computer is turned off. Hibernate mode is useful when you do not intend to use the computer for an extended period of time.

To activate Hibernate mode

1. Click (Start), (arrow) next to the Shut down button, and Hibernate.

Hint

- The following operation also places your VAIO computer into Hibernate mode. - Press the Fn+F12 keys.
- The power indicator light is off while your VAIO computer is in Hibernate mode.

To return to Normal mode

1. Press the power button.

Note

- Note that if you press and hold down the power button for more than four seconds, your VAIO computer will turn off automatically. Doing this will erase all unsaved data.
- By default, your VAIO computer automatically enters Hibernate mode when the battery pack becomes weak. However, depending on the currently running software and connected devices, Windows may not allow their tasks to be suspended, resulting in failure to enter Hibernate mode. If this occurs and the battery pack is running out of power, the computer will be turned off, resulting in loss of unsaved data. While the computer is running on battery power, save data frequently and manually place the computer into Hibernate mode, if necessary.
- Before moving your VAIO computer, make sure that the power indicator light is off to avoid impact or vibration to the running hard disk drive.

Hint

 When the charge and power indicator lights blink concurrently, or a low battery message appears, place your VAIO computer into Hibernate mode or plug it into an AC outlet.

Related Topic

About Power Saving Mode Using Sleep Mode Extending the Battery Life

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Notes on Sleep Mode

Read the following precautions before using Sleep mode.

- Some software applications may not support Sleep mode. When running such applications, exit them before placing your VAIO computer into Sleep mode.
- Some USB devices may not support Sleep mode. When your VAIO computer resumes from Sleep mode, the computer may not recognize such USB devices, depending on the type and number of connected USB devices.
 - If you cannot place the computer into Sleep mode, disconnect all USB devices before placing the computer into Sleep mode.
- If your VAIO computer enters Sleep mode when Windows or the computer is unstable, it may not resume from Sleep mode. The following operations are recommended:
 - Before placing your VAIO computer into Sleep mode, save your files and close running software.
 - Shut down your VAIO computer periodically.
- Depending on the condition of Windows, your VAIO computer cannot enter Sleep mode.
- If the battery pack runs out of power while your VAIO computer is in Sleep mode, you
 will lose all unsaved data. Be sure to save data you are working on before placing the
 computer into Sleep mode.

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Selecting a Power Plan

Power management helps you set up power plans to suit your requirements for power consumption.

- 1. Click ((Start), Control Panel, Hardware and Sound, and Power Options.
- 2. Select your desired power plan.
- 3. If you want to change the power plan settings, click Change plan settings on the right of your desired power plan in the Power Options window.
 - By clicking **Change advanced power settings**, you can change the advanced

Refer to Windows Help and Support for more information on the power plan settings.

Hint

• The power status icon indicates what kind of power source your VAIO computer is currently using, and you can see the computer's power status by clicking this icon.

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Extending the Battery Life

When your VAIO computer is running on battery power, you can extend the battery life using the following methods.

- Use the power saving mode. [Details]
 - When you do not need to use your VAIO computer temporarily, you can use either Sleep mode or Hibernate mode.
 - To extend the battery life, use Sleep mode frequently. If you do not intend to use the computer for an extended period of time, use Hibernate mode. For longer breaks, turn off the computer.
 - Resuming the computer from Hibernate mode is faster than from booting up the computer, and Sleep mode, even faster than Hibernate mode.
- Decrease the LCD brightness of the computer screen. [Details]
- Turn down the volume of the speakers and headphones. [Details]
- · Disconnect peripheral devices that are not in use.

Related Topic

Charging the Battery Pack
Notes on Using the Battery Pack
Using Sleep Mode
Using Hibernate Mode

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Charge Indicator Status List

The charge indicator light + turns on or blinks differently according to conditions.

Lit in orange	The battery pack is charging. (Turns off when charging is completed.)	
Blinks along with the green power indicator (1)	The battery pack is running out of power. (Normal mode)	
Blinks along with the orange power indicator (1)	The battery pack is running out of power. (Sleep mode)	
Blinks fast in orange	A battery error has occurred due to a failed battery pack or an unlocked battery pack.	

Related Topic

Charging the Battery Pack Extending the Battery Life

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About Power Saving Mode

Your VAIO computer has power saving modes to conserve power while you are not using the computer in addition to the normal operating mode.

Sleep mode

In Sleep mode, all unnecessary devices of your VAIO computer are turned off, though some devices stay turned on to retain the computer's state including data you are working on. Sleep mode is useful when you take a short rest, for example.

Hibernate mode

In Hibernate mode, the state of the current system is saved to the built-in storage device and your VAIO computer is turned off. Hibernate mode is useful if you do not intend to use the computer for a while.

About restart time and power consumption

The restart time from Sleep mode is the shortest, but your VAIO computer in Sleep mode consumes power the most. When the computer is off, the time you take to start the computer is longer than to resume it from power saving modes, but the computer can conserve power.

Note

 By default, your VAIO computer automatically enters Hibernate mode when the battery pack becomes weak. However, depending on the currently running software and connected devices, Windows may not allow their tasks to be suspended, resulting in failure to enter Hibernate mode. If this occurs and the battery pack is running out of power, the computer will be turned off, resulting in loss of unsaved data. While the computer is running on battery power, save data frequently and manually place the computer into Hibernate mode, if necessary.

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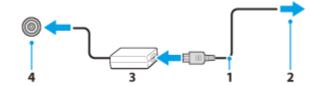
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Connecting a Power Source

Connect your VAIO computer to an AC power source. Carefully read the precautions in Notes on Using the Power Source before connection. [Details]

- 1. Plug one end of the power cord (1) into the AC adapter (3).
- 2. Plug the other end of the power cord into an AC outlet (2).
- 3. Plug the cable from the AC adapter (3) into the DC IN port (4) on your VAIO computer.



Note

- . Do not plug more than one device into the same AC outlet.
- The shape of the AC adapter varies depending on the model you purchased.
- Make sure that the power plug is firmly plugged into your VAIO computer.

Hint

 You can purchase a power strip with a surge protector to help prevent damage to your VAIO computer caused by sudden power surges (in an electrical storm, for example).

Related Topic

Installing/Removing the Battery Pack Charging the Battery Pack Notes on Using the Battery Pack Turning on Your VAIO Computer Shutting Down Your VAIO Computer Notes on Using the Power Source

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Turning on Your VAIO Computer

Turn on your VAIO computer to start Windows. Carefully read the precautions in **Notes on Using the Power Source** before turning on. [Details]

- Install the battery pack on your VAIO computer [Details], and then connect to an AC outlet. [Details]
- 2. Lift the LCD screen lid.
- **3.** Press and hold down the power button until the power indicator light turns on in green. Your VAIO computer is turned on, and Windows starts after a while.

Note

- If you press and hold down the power button for more than four seconds, your VAIO computer will not turn on.
 - Press the power button lightly, and release it immediately when the power indicator light turns on.
- Do not use your VAIO computer without installing the battery pack as it may cause the computer to malfunction.
- When opening the LCD screen lid, do not hold the built-in camera as it may cause your VAIO computer to malfunction. (Built-in camera equipped models)
- If you press the power button with the LCD screen lid closed, your VAIO computer will not turn on.

Hint

• By default, your VAIO computer automatically enters Sleep mode after a certain period of inactivity while the computer is connected to an AC outlet. [Details]

Related Topic

Installing/Removing the Battery Pack
Charging the Battery Pack
Notes on Using the Battery Pack
Connecting a Power Source
Shutting Down Your VAIO Computer
Restarting Your VAIO Computer
Notes on Using the Power Source

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Shutting Down Your VAIO Computer

Shut down your VAIO computer properly to avoid losing unsaved data.

- 1. Turn off any peripherals connected to your VAIO computer.
- 2. Save your data and close all running software applications.
- 3. Click ((Start) and the Shut down button.

After a short time, your VAIO computer automatically turns off and the green power indicator light turns off.

Before closing the LCD screen lid, make sure the power indicator is off.

Note

- An improper shutdown may cause loss of unsaved data or your VAIO computer to malfunction.
- To disconnect your VAIO computer completely from an AC power source, turn off the computer and unplug the power cord from the AC outlet.

Related Topic

Turning on Your VAIO Computer Restarting Your VAIO Computer Using Sleep Mode Using Hibernate Mode Notes on Using the Power Source

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Notes on Using the Power Source

Read the following precautions before plugging your VAIO computer into an AC power source.

- If you remove the battery pack while your VAIO computer is turned on or in Sleep mode but it is disconnected from an AC power source, you will lose all unsaved data.
- If you do not intend to use your VAIO computer for an extended period of time while it is disconnected from an AC power source, place the computer into Hibernate mode or turn it off.

Notes on the AC adapter

- Use the AC adapter supplied with your VAIO computer or genuine Sony products. Do not use any other AC adapter as it may cause a malfunction.
- Do not connect the AC adapter to a power conversion device such as a travel power converter. It may cause overheating or a malfunction.
- If the AC adapter cable becomes damaged or broken, do not use it.

Notes on turning on your VAIO computer

- Because your VAIO computer contains magnetic components, keep magnetic storage media, such as floppy disks, away from the computer, as it may cause data corruption.
- Your VAIO computer falsely recognizes that the LCD screen lid is closed when you
 move magnetic devices closer to the computer and therefore will automatically enter
 Sleep mode (with the default settings). Keep magnetic devices away from the computer.

Related Topic

Connecting a Power Source
Turning on Your VAIO Computer
Shutting Down Your VAIO Computer
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Restarting Your VAIO Computer

After changing the settings or installing software on your VAIO computer, you may be required to restart the computer.

- 1. Save your data and close all running software applications.
- 2. Click (Start), (arrow) next to the Shut down button, and Restart. Your VAIO computer will restart.

Related Topic

Turning on Your VAIO Computer Shutting Down Your VAIO Computer



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Using the Internet without Starting Windows (Quick Web Access)(the Web button)

The Quick Web Access function enables you to access the Internet without starting Windows.

- 1. Press the **WEB** button on your VAIO computer while the computer is off. [Details]
- 2. Follow the instructions in the initial setup wizard. Once completed the initial setup, you can start the web browser used with the Quick Web Access function just by pressing the **WEB** button from the next time.

For more information on how to use the Quick Web Access function, click (Help) located at the lower right corner of the computer screen.

Note

 The WEB button is not functional while your VAIO computer is in Sleep mode or Hibernate mode.

Hint

• While your VAIO computer is on and you are logging onto Windows, the WEB button starts the web browser assigned to the button by default.

To exit the Quick Web Access function

1. Click (b) (Power) located at the lower left corner of the computer screen.

To start Windows, you need to exit the Quick Web Access function.

Hint

 Alternatively, you can exit the Quick Web Access function by pressing the WEB button or (Power) on your VAIO computer.

Notes on using the Quick Web Access function

While the Quick Web Access function is activated, you cannot use:

- Any function key, except the F2, F3, and F4 keys, in combination with the Fn key for shortcuts
- The Scr LK key in combination with the Fn key for shortcut
- The ASSIST button
- The VAIO button
- · Any port, jack, and memory card slots except the LAN port, the headphones jack, the USB ports, and the DC IN port
- The Intel(R) Wireless Display (installed on selected models only)

Note

Some USB devices may not work with the USB ports on your VAIO computer.

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Changing the Button Assignment (VAIO Button)

You can change the current task assigned to the VAIO button. [Details]

To change the button assignment, you need to log onto your VAIO computer as a user with administrative rights, such as a computer administrator.

- **1.** Press and hold down the **VAIO** button. The settings window appears.
- **2.** Change the current task to your desired one. You can select a task from the list.
- 3. Click OK.

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About the Internet Connection Services

The following types of Internet connection services are available. You can select from among the services according to your preference, for example, communication speed or a usage fee. For detailed information on a variety of connection services, contact Internet Service Providers (ISPs).

- Fiber to the Home (FTTH)
- Cable modem
- Digital Subscriber Line (DSL)
- Satellite
- Dial-up

Related Topic

Connecting to the Internet with a Wired Connection Starting Wireless LAN Communications

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About the Network (LAN)

The network (LAN) enables you to connect your VAIO computer to the Internet and transfer data between the computer and other devices.

You can connect your VAIO computer to 1000BASE-T/100BASE-TX/10BASE-T type networks with a LAN cable (not supplied). Connect one end of a LAN cable to the LAN port on the computer and the other end to your network.

For information on peripheral devices required for LAN access, ask your Internet Service Provider (ISP) or refer to the manual that came with your modem.

For information on how to connect your VAIO computer to the network, refer to your ISP's instructions or the manual that came with the modem and other peripheral devices. If you require information on the network settings at your workplace, ask the network administrator.

Related Topic

About the Internet Connection Services Starting Wireless LAN Communications

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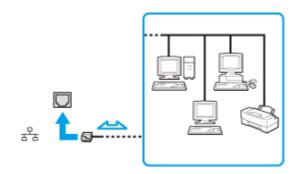
Other Operations

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Connecting to the Internet with a Wired Connection

Before using the Internet, you need to sign up with an Internet Service Provider (ISP) and set up devices required for connecting your VAIO computer to the Internet.

Connect one end of a LAN cable (not supplied) to the LAN port on your VAIO computer and the other end to your network.



Note

- For detailed information on devices required for Internet access and how to connect your VAIO computer to the Internet, ask your ISP.
- When connecting your VAIO computer to the Internet, be sure to use a cable with network or Ethernet printed on it.
- Do not plug a telephone cable into the LAN port on your VAIO computer.
 If the computer is connected to the one of the networks or the LAN port is connected to the telephone lines mentioned below, high electric current to the port may cause damage, overheating, or fire.
 - Any network, except 1000BASE-T/100BASE-TX/10BASE-T type networks
 - Public telephone subscriber line
 - Private branch exchange (PBX)
 - Home (intercom speakerphone) or business-use telephone lines (multi-line business telephone)

Hint

 To connect your VAIO computer to the Internet using the wireless LAN function, you need to set up the wireless LAN network. [Details]

Related Topic

About the Internet Connection Services About the Network (LAN) Starting Wireless LAN Communications

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About the Wireless LAN Standards

The Wireless Local Area Network (WLAN) allows your VAIO computer to connect to a network through a wireless connection.

The WLAN uses the following IEEE 802.11a/b/g/n standard, which specifies the type of technology used.

Refer to the specifications to find out about the configuration of the computer.

WLAN standard	Frequency band	Remarks
IEEE 802.11a	5 GHz	Exclusive to models compliant with the IEEE 802.11a/b/g/n standard.
IEEE 802.11b/g	2.4 GHz	The IEEE 802.11g standard provides higher-speed communications than the IEEE 802.11b.
IEEE 802.11n	5 GHz/2.4 GHz	For models compliant with the IEEE 802.11b/g/n standard, only 2.4 GHz band can be used.

Related Topic

Before Using the Wireless LAN Starting Wireless LAN Communications Stopping Wireless LAN Communications Notes on Using the Wireless LAN Function

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Using the Antivirus Software for Your VAIO Computer

Protect your VAIO computer against computer viruses by using the antivirus software. You can keep the antivirus software current with the latest updates by downloading and installing the updates from the website of the software publisher. To update the antivirus software, find the antivirus software installed on your VAIO computer from the following and follow these steps.

Trend Micro:

- Make sure your VAIO computer is connected to the Internet, click ((Start), AII
 Programs, Trend Micro Titanium Maximum Security, and Trend Micro Titanium Maximum Security.
- 2. Follow the on-screen instructions.

McAfee:

- 1. Make sure your VAIO computer is connected to the Internet, click (Start), All Programs, McAfee, and McAfee Internet Security or McAfee Total Protection.
- 2. Follow the on-screen instructions.

Norton Internet Security:

- Make sure your VAIO computer is connected to the Internet, click (Start), AII
 Programs, Norton Internet Security, and LiveUpdate or Norton Internet Security.
- 2. Follow the on-screen instructions.

Note

 The actual procedure may be different from the above depending on the version of the software installed on your VAIO computer. In such a case, follow the on-screen instructions.

Hint

• Refer to the help file included with your software for more information.

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Before Using the Wireless LAN

You first need to establish wireless LAN communications between your VAIO computer and an access point (not supplied) before connecting the computer to the Internet using the wireless LAN. Refer to **Windows Help and Support** and the manual that came with your access point for more information.

For a quick and easy connection to the wireless LAN

When the first time you connect your VAIO computer to the Internet using the wireless LAN at home or connect the computer to a public wireless network (hotspot), use **VAIO Easy Connect** that helps you establish a connection to the wireless LAN quickly and easily.

- 1. Set the WIRELESS switch [Details] to ON.
- 2. Click (Start), All Programs, VAIO Easy Connect, and follow the on-screen instructions in the Easy Internet Connection Setup window.

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About the Wireless LAN Standards
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About a Security Key for a Wireless LAN



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Starting Wireless LAN Communications

You can establish wireless LAN communications between your VAIO computer and an access point (not supplied) using VAIO Smart Network. Before using the wireless LAN, make sure your access point is on and operating.

Read the instructions in **Before Using the Wireless LAN** for correct use. [Details]

- 1. Set the **WIRELESS** switch [Details] to **ON**.
- 2. Click (Start), All Programs, and VAIO Smart Network or click 🔄 (the VAIO Smart Network icon) in the desktop notification area.
- 3. Make sure the switch next to Wireless LAN or Wi-Fi is toggled to On. If it is set to **Off**, click it to toggle to **On**.

Hint

- Make sure the WIRELESS indicator light [Details] is on.
- 4. In the VAIO Smart Network window, select a mode that suits your wireless LAN. Refer to the help file included with VAIO Smart Network for more information about operations.
- 5. Click or like Network icon) in the desktop notification area.
- 6. Select the desired access point and click Connect. After the connection is established, Connected appears in the selected wireless access point field.

If you cannot find the desired access point, click (Refresh).

If a security key [Details] entry window appears, enter the security key as required and click **OK**. Note that security keys are case-sensitive.

Note

- On IEEE 802.11a/b/g/n equipped models, when only the 2.4 GHz wireless LAN function is enabled, your VAIO computer cannot connect to a 5 GHz wireless LAN access point. Also, when only the 5 GHz wireless LAN function is enabled, the computer cannot connect to a 2.4 GHz wireless LAN access point.
 - On IEEE 802.11b/g/n or IEEE 802.11b/g equipped models, when the 2.4 GHz wireless LAN function is disabled, the computer cannot connect to an access point. Also, the computer cannot connect to a 5.0 GHz wireless LAN access point.
- It may take some time to find and connect to a wireless LAN access point before starting communications via the wireless LAN.

Hint

 Once you connect your VAIO computer to the access point by entering the security key, the access point will be registered in the computer. You do not have to enter the security key for subsequent connections.

To check wireless LAN connection status

You can move the mouse pointer over degree or degree (the Network icon) in the desktop notification area to check the wireless LAN connection status, such as the access point currently connected to your VAIO computer.

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Stopping Wireless LAN Communications

Stop wireless LAN communications using VAIO Smart Network.

 Click the switch next to Wireless LAN or Wi-Fi to toggle it to Off in the VAIO Smart Network window.

The wireless LAN function is turned off and the **WIRELESS** indicator light turns off.

Note

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

Hint

When another wireless communication function is turned on in the VAIO Smart
 Network window, the WIRELESS indicator light on your VAIO computer stays on.

Related Topic

About the Wireless LAN Standards Starting Wireless LAN Communications Notes on Using the Wireless LAN Function



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Notes on Using the Wireless LAN Function

Before using the wireless LAN function, read the following precautions for correct use.

- In some countries or regions, using the Wireless LAN products may be restricted by the local regulations.
- Wireless LAN devices work on the 2.4 GHz band, which is used by a variety of devices. Wireless LAN devices use the technology to minimize radio interference from other devices that use the same band; however, radio interference may still slow communication speeds, reduce communication range, or cause communication failure.
- If both the BLUETOOTH function and the 2.4 GHz wireless LAN function of your VAIO computer are enabled, interference may occur and cause slower communication speeds or other problems.
- To communicate via a wireless LAN while you are on the road, you may need to contract with a wireless LAN connection service provider.
- If your VAIO computer is equipped with the IEEE 802.11a/b/g/n standard, outdoor use of the 5 GHz wireless LAN function is prohibited by law.
- The communication speed and range may vary depending on the following conditions:
 - Distance between devices
 - Existence of obstacles between devices
 - Device configuration
 - Radio conditions
 - Ambient environment (including wall material, etc.)
 - Software in use
 - Communications may be cut off depending on radio conditions.
- The data transfer rate specified in the specification is the theoretical maximum, and may not reflect actual data transfer rate.
- · Actual communication speed may not be as fast as the one displayed on your VAIO computer.
- The 2.4 GHz Wireless LAN and 5 GHz Wireless LAN frequency bands are not communicable with one another.
- The data transfer rate of IEEE 802.11g and IEEE 802.11n (2.4 GHz) may be affected by interference when used with an IEEE 802.11b product. Also, IEEE 802.11g and IEEE 802.11n automatically lower the transfer rate to maintain compatibility with an IEEE 802.11b product. The transfer rate may be regained by changing the channel settings of your access point.
- The IEEE 802.11a standard and the IEEE 802.11n standard are not available on ad-hoc
- To stop the wireless LAN function abruptly, set the WIRELESS switch to OFF.
- The WLAN standard includes the encryption methods: Wired Equivalent Privacy (WEP), which is a security protocol, Wi-Fi Protected Access 2 (WPA2), and Wi-Fi Protected Access (WPA). Proposed jointly by the IEEE and Wi-Fi Alliance, both WPA2 and WPA are specifications of standards based on interoperable security enhancements that increase the level of data protection and access control for existing Wi-Fi networks. WPA is designed to be forward compatible with the IEEE 802.11i specification. It utilizes the enhanced data encryption Temporal Key Integrity Protocol (TKIP) in addition to user authentication using 802.1X and Extensible Authentication Protocol (EAP). Data encryption protects the vulnerable wireless link between clients and access points.

Besides that, there are other typical LAN security mechanisms to ensure privacy, such as: password protection, end-to-end encryption, virtual private networks, and authentication. WPA2, the second generation of WPA, provides stronger data protection and network access control and is also designed to secure all versions of 802.11 devices, including 802.11b, 802.11a, 802.11g, and 802.11n standards, multi-band and multi-mode. In addition, based on the ratified IEEE 802.11i standard, WPA2 provides government grade security by implementing the National Institute of Standards and Technology (NIST) FIPS 140-2 compliant AES encryption algorithm and 802.1X-based authentication. WPA2 is backward compatible with WPA.

Related Topic

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About a Security Key for a Wireless LAN

A security key is a security protocol for a wireless LAN that encrypts data transmitted on the wireless LAN. It is also referred to as an encryption key or a WEP (Wired Equivalent Privacy) key.

The security key allows wireless devices that have the same key, such as a wireless LAN access point and a computer, to communicate with each other on the wireless LAN.

The security key is assigned to each access point by default. (Make sure the default security key has been changed to protect data from unauthorized use.) If you cannot find the default security key, refer to the manual that came with your access point.

If you enter a wrong security key, follow these steps to re-enter the security key.

- 1. Click (Start) and Control Panel.
- 2. Click Network and Internet and Network and Sharing Center.
- 3. Click Manage wireless networks in the left pane.
- **4.** Right-click the desired network in the **Networks you can view and modify** list, and then click **Properties**.
- 5. Click the Security tab.
- 6. Enter a security key in the Network security key field and click OK.

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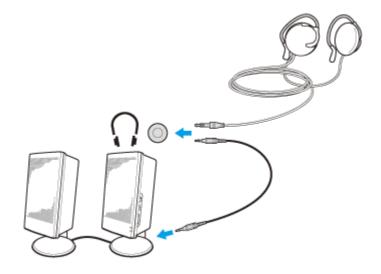
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Connecting External Speakers or Headphones

You can connect external sound output devices (such as speakers or headphones) to your VAIO computer.

1. Connect external speakers to the the headphones jack ∩ [Details] with a speaker cable (not supplied).



Note

• Turn down the volume of the speakers before turning them on.

Hint

• Refer to the manual that came with your speakers or headphones.

Related Topic

Adjusting the Speakers Volume Connecting an External Microphone Changing the Sound Output Device Adjusting the Volume in Windows



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Connecting an External Microphone

You can connect an external microphone to your VAIO computer and enjoy voice chat, etc.

1. Plug the microphone cable into the microphone jack \ [Details].



Note

If you connect or disconnect the microphone to/from your VAIO computer while running
voice recording software, voice recording may fail or the software may exit.
 Connect the microphone and select it as the sound recording device for Windows before
starting the software.

Hint

- · Use a plug-in-power microphone.
- · Refer to the manual that came with your microphone.
- If microphone feedback occurs, move the microphone away from your speakers.

Related Topic

Adjusting the Microphone Volume Connecting External Speakers or Headphones



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Changing the Sound Output Device

If there is no sound from the device connected to your VAIO computer, you need to change the device for sound output.

- 1. Click (Start) and Control Panel.
- 2. Click Hardware and Sound.
- 3. Click Sound.
- 4. Click the Playback tab.
- 5. Ensure there is a check mark next to the icon of the device you intend to output computer sound from.
 If there is no check mark next to the icon, select it and click Set Default.
- 6. Click OK.

To change the sound rate and bit depth

The sound rate and bit depth of the digital audio output signal should be set according to your digital audio device. Follow these steps.

- 1. Click (Start) and Control Panel.
- 2. Click Hardware and Sound.
- 3. Click Sound.
- 4. Click the Playback tab.
- **5.** Select the icon of your HDMI device or **OPTICAL OUT** (optical digital audio output) and click **Properties**.
- 6. Click the Advanced tab.
- **7.** Select the sample rate and bit depth (for example, 16 bit, 48000 Hz (DVD quality)) which the device supports.
- 8. Click OK.

Related Topic

Connecting External Speakers or Headphones

Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

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Connecting a High-Quality Digital Sound Output Device between Your VAIO Computer and a TV

You can connect a high-quality home theater receiver or other surround sound decoder devices between your VAIO computer and a TV using an HDMI connection.

- 1. Make sure the HDMI connection has been set up between the TV and the home theater receiver or surround sound decoder device.
- 2. Change the device for sound output to the HDMI output. [Details]
- 3. Turn on the TV and set its input to the HDMI input.
- 4. Turn on the home theater receiver or surround sound decoder device and set its input to the HDMI input.
- 5. Plug one end of an HDMI cable to the HDMI input port on the home theater receiver or surround sound decoder device and the other end to the HDMI output port on your VAIO computer.

Hint

- You can adjust the screen resolution of the connected TV with your VAIO computer.
- · With the HDMI connection, the volume can be adjusted by the connected audio device only. Your VAIO computer has no control over the output volume of any connected devices.

Related Topic

Changing the Sound Output Device Changing the Resolution (Size) of the Screen Image Connecting a TV with an HDMI Input Port



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Adjusting the Speakers Volume

You can change the volume level of the speakers and headphones.

To reduce the volume using the Fn key

1. Press the F3 key while holding down the Fn key. The volume is turned down.

To increase the volume using the Fn key

1. Press the F4 key while holding down the Fn key. The volume is turned up.

Hint

- You can press the Fn+F2 keys to turn off the speakers and headphones. Press the Fn+F2 keys once more to turn on the volume.
- You can also press the **Fn+F4** keys to turn on the volume.

Related Topic

Adjusting the Volume in Windows Adjusting the Microphone Volume Connecting External Speakers or Headphones

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Adjusting the Volume in Windows

You can adjust the volume on each software application from the Control Panel window.

- 1. Click (Start) and Control Panel.
- 2. Click Hardware and Sound.
- 3. Click Adjust system volume under Sound.
- 4. Move a slider in **Device** up and down to your desired volume level. When the volume is turned off (\(\bigcirc\)), click \(\bigcirc\) (Deactivate muting) to turn on the volume (100). When the volume has been minimized, turn the volume up with the slider.

To turn off the Windows startup sound

- 1. Click (Start) and Control Panel.
- 2. Click Hardware and Sound.
- 3. Click Sound.
- 4. Click the Sounds tab.
- 5. Click to clear the Play Windows Startup sound check box.
- 6. Click OK.

Related Topic

Adjusting the Speakers Volume Adjusting the Microphone Volume Connecting External Speakers or Headphones

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Adjusting the Microphone Volume

You can adjust the volume level of the microphone.

- 1. Click (Start) and Control Panel.
- 2. Click Hardware and Sound.
- 3. Click Sound.
- 4. Click the **Recording** tab.
- **5.** Double-click the microphone icon.
- 6. Click the Levels tab in the Microphone Properties window.
- 7. Move a slider in Microphone right and left to your desired volume level.
 If the microphone volume is still not loud enough even at the maximum volume level, move a slider in Microphone Boost right and left to adjust the volume level.
- 8. Click OK.

Related Topic

Connecting an External Microphone Adjusting the Speakers Volume Adjusting the Volume in Windows

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Using the Multiple Monitor Function

The Multiple Monitor function allows you to distribute portions of your desktop across separate displays. For example, if you have an external display connected to the monitor port, the computer screen and the external display can function as a single desktop.

- 1. Right-click on the desktop and select Screen resolution.
- 2. Click the drop-down list next to **Multiple Displays**, select **Extend these** displays, and click **OK**.

The setting options vary depending on the number of the connected external displays.

Note

- If you set different colors on each display, do not expand a single window across two displays, or your software may not work properly.
- Your external display may not support the Multiple Monitor function.
- Certain software applications may not be compatible with the Multiple Monitor settings.
- High screen resolution and high color depth may not be displayed correctly. Set fewer colors or a lower resolution for each display.
- Do not change the display settings while using video/image software or playing DVDs, as it may cause unsuccessful playback/display or unstable system operations.
 Change the display settings after you exit the video/image software.

Hint

You can set the screen resolution for each display used for multi monitor.

Related Topic

Changing the Resolution (Size) of the Screen Image Selecting Display Modes Connecting a TV with an HDMI Input Port Connecting an External Display or Projector

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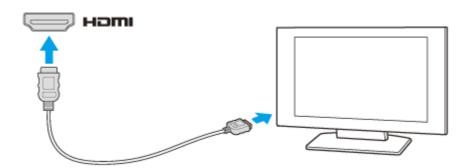
How to Use **Parts Description** Setup **Network / Internet** Connections **Settings Playback** Backup / Recovery Security **Other Operations**

Connecting a TV with an HDMI Input Port

You can connect a TV with an HDMI input port to your VAIO computer with an HDMI cable (not supplied).

Refer to the manual that came with your TV for more information on installation and use.

- 1. Plug the power cord of your TV into an AC outlet.
- 2. Connect one end of an HDMI cable to the HDMI output port [Details] on your VAIO computer and the other end to the TV.
- 3. Set the TV input to the external input. The screen image of your VAIO computer is displayed on the TV.



Note

- If a device driver other than the one provided by Sony is used, the image will not be displayed and audio will not be heard. Always use the device driver provided by Sony for updates.
- To hear sound from a device connected to the HDMI output port, you need to change the sound output device. For detailed instructions, see Changing the Sound Output Device. [Details]
- · You cannot use the HDMI output port and the monitor port on your VAIO computer at the same time.

Hint

 Your VAIO computer is compliant with the High-bandwidth Digital Content Protection (HDCP) standard and capable of encrypting the transmission channel of digital video signals for the purpose of copyright protection, which enables you to view a wide variety of copyright protected and high-quality content.

Related Topic

Selecting Display Modes

Using the Multiple Monitor Function

Changing the Resolution (Size) of the Screen Image

Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device Connecting an External Display or Projector



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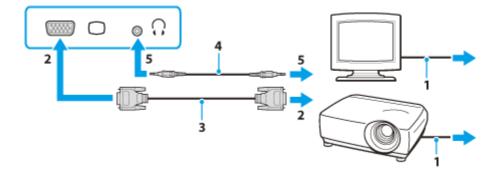
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Connecting an External Display or Projector

You can connect an external display (such as a computer display or a projector) to your VAIO computer with a display cable (not supplied). Refer to the manual that came with your external display or projector for more information on installation and use.

- 1. Plug the power cord (1) of your external display or the projector into an AC outlet and turn it on.
- 2. Connect the external display or the projector to the monitor port [Details] on your VAIO computer (2) with a display cable (3) (not supplied). The screen image of your VAIO computer is displayed on the external display or the projector.
- 3. If necessary, connect the external display or the projector to the headphones jack on your VAIO computer (5) with a speaker cable (4) (not supplied).



Note

- · You cannot use the monitor port and the HDMI output port on your VAIO computer at the same time.
- Some external display and projector may not support some of the resolutions your VAIO computer can use. If your computer display does not support the selected resolution, lower the resolution setting of the computer [Details].

Related Topic

Selecting Display Modes Using the Multiple Monitor Function Connecting a TV with an HDMI Input Port

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Notes on the LCD screen

Read the following precautions for correct use of the LCD screen.

- The LCD screen is manufactured using high-precision technology. You may, however, see tiny black points and/or bright points (red, blue, or green) that continuously appear on the LCD screen. This is a normal result of the manufacturing process and does not indicate a malfunction.
- Do not scratch the surface of the LCD screen or exert pressure on it. This could cause damage.
- Do not exert pressure on the LCD screen lid with the lid closed as it may scratch the LCD screen or soil it.
- The LCD screen may become warm during operation. This is normal and does not indicate a malfunction.
- Do not leave the LCD screen facing the sun. This could damage the LCD screen. Be sure to block direct sunlight when using your VAIO computer near a window.
- Do not exert pressure on the LCD screen or its edges when opening the LCD screen lid
 or lifting your VAIO computer. The LCD screen may be sensitive to pressure or added
 stress, and exerting pressure may damage the screen or cause it to malfunction. When
 opening the computer, hold the base with one hand and gently lift the LCD screen lid
 with the other. To carry the computer with the lid open, be sure to hold the computer
 with both hands.
- Using your VAIO computer in low temperature conditions may produce a residual image on the LCD screen. This does not indicate a malfunction. When the computer returns to normal temperature, the screen returns to normal.
- A residual image may appear on the LCD screen if the same image is displayed for an
 extended period of time. The residual image disappears after a while. You can use a
 screen saver to prevent residual images.

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Selecting Display Modes

You can switch the display output between the computer screen and an external display connected to your VAIO computer.

- 1. Turn on an external display.
- 2. Press the **Fn+F7** keys several times to select your desired display output, and then press the **Enter** key.

Note

- If you disconnect a display cable (not supplied) from your VAIO computer while an
 external display is selected as the display output, the computer screen goes blank. In
 such a case, press the Fn+F7 keys twice, and then press the Enter key to switch the
 display output to the computer screen.
- The display switch may become unavailable or your VAIO computer may become unstable during video playback. Exit the video playback software before switching the display output.
- The display switch may not be available depending on the type of external display or projector.

Related Topic

Using the Multiple Monitor Function
Connecting a TV with an HDMI Input Port
Connecting an External Display or Projector

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Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device

You can change the screen resolution or size of your VAIO computer's screen image displayed on an external display, such as a TV, connected to the computer with an HDMI cable (not supplied).

- 1. Connect your VAIO computer to an HDMI equipped TV with an HDMI cable. [Details]
- 2. Turn on the TV.
- 3. Double-click (HDMI Resolution Settings) in the desktop notification area. The settings window appears.
- Click the Select Resolution tab to select the desired resolution, and then click Apply.

After a few seconds, the selected resolution is applied.

5. If the computer image does not fit the displayable region of the TV, click the **Adjust Resolution** tab to adjust the display size.

Note

- Some resolution options may not be available, depending on the model or the HDMI-connected device.
- The function to adjust the screen resolution may be disabled depending on the selected resolution.

Related Topic

Connecting a TV with an HDMI Input Port Selecting Display Modes

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Changing the Resolution (Size) of the Screen Image

You can change the screen resolution to adjust the size of the characters and images on the computer screen.

Refer to **Windows Help and Support** for more information.

- 1. Right-click on the desktop and select **Screen resolution**.
- 2. Click the current screen resolution next to **Resolution** and move the slider to change the screen resolution.

Note

- You may not be able to play high-resolution videos depending on the amount of video memory on your VAIO computer. In such a case, lower the screen resolution.
- Do not change the display resolution while using video/image software or playing DVDs, as it may cause unsuccessful playback/display or unstable system operations.

Related Topic

Connecting an External Display or Projector Connecting a TV with an HDMI Input Port Notes on the LCD screen

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Changing the LCD Brightness

You can adjust the LCD brightness.

1. Press the Fn+F5 key or Fn+F6 keys. To decrease lighting intensity, keep pressing the Fn+F5 keys. To increase lighting intensity, keep pressing the Fn+F6 keys.

When you press the keys, the brightness indicator is displayed for a few seconds.

Hint

• The LCD brightness setting is retained even after your VAIO computer is turned off and restarted.

Related Topic

Combinations and Functions with the Fn Key



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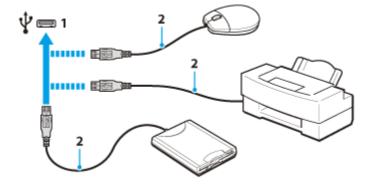
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Connecting a USB Device

You can connect a Universal Serial Bus (USB) device such as a mouse, floppy disk drive, speaker or printer to your VAIO computer. Installation of the device driver software supplied with the USB device may be required when connecting. Refer to the manual that came with the device for more information.

- 1. Choose the USB port (1) you prefer to use.
- 2. Plug the USB device cable (2) (not supplied) into the USB port.



Note

- You may need to install the driver software supplied with your USB device before use. Refer to the manual that came with the USB device for more information.
- In order to print documents, be sure the USB printer is compatible with your version of Windows.
- Before disconnecting USB speakers from your VAIO computer, stop DVD or music playback or turn off the computer. If you disconnect the USB speakers during playback, it may cause a malfunction.
 - For information on how to remove a USB device, refer to the manual that came with the
- To protect your VAIO computer and/or USB devices from damage, observe the following:
 - When moving your VAIO computer with USB devices connected, avoid exposing the USB ports to shock or impact.
 - Do not put your VAIO computer in a bag or carrying case with USB devices connected.

Hint

• The USB ports on your VAIO computer are compliant with the USB 2.0 standard.

Related Topic

Connecting an External DVD Drive

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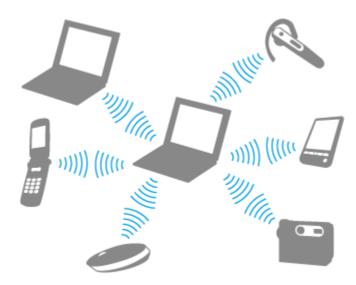
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About the BLUETOOTH(R) Function <BLUETOOTH equipped models>

You can establish wireless communications between your VAIO computer and other BLUETOOTH devices such as another computer, a mobile phone, modem, PDA, digital still camera, headset or mouse. You can transfer data between these devices without cables at a range of up to 33 feet / 10 meters in an open area.



One BLUETOOTH device can connect with up to seven devices via wireless network to exchange data.

When a device requires connection to another device, it sends out an inquiry to neighboring BLUETOOTH devices. If any device responds to the inquiry, the two devices can connect with each other.

Related Topic

Communicating with Another BLUETOOTH(R) Device such as a Mouse <BLUETOOTH equipped models>

Stopping BLUETOOTH(R) Communications <BLUETOOTH equipped models>
Notes on Using the BLUETOOTH(R) Function <BLUETOOTH equipped models>
About BLUETOOTH(R) Security <BLUETOOTH equipped models>

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Communicating with Another BLUETOOTH(R) Device such as a Mouse <BLUETOOTH equipped models>

You can connect BLUETOOTH devices to your VAIO computer. For details on BLUETOOTH communication, see About the BLUETOOTH Function (BLUETOOTH equipped models). [Details]

- 1. Set the WIRELESS switch [Details] to ON.
- 2. Click (Start), All Programs, and VAIO Smart Network or click 🔄 (the VAIO Smart Network icon) in the desktop notification area.
- 3. Make sure that the switch next to BLUETOOTH is toggled to On in the VAIO Smart Network window.

If it is set to **Off**, click it to toggle to **On**.

Hint

- If your VAIO computer supports the BLUETOOTH Core Specification Version 3.0 + HS and you intend to use it, toggle the switch next to Wireless LAN or Wi-Fi to On, too.
- Make sure that the WIRELESS indicator light on your VAIO computer is on.
- 4. Click (Start) and Devices and Printers.
- 5. When connecting a BLUETOOTH mouse, turn it on and press the button to connect the mouse.

Hint

- Refer to the manual that came with your BLUETOOTH device for the procedure to have the device ready for connection.
- 6. Click Add a device.

Your VAIO computer searches for devices and displays a device list. Follow the onscreen instructions to register your device.

Note

- · Depending on the BLUETOOTH device, it may take some time for your VAIO computer to find the device. If your device does not appear in the list, repeat the procedure to have the device ready for connection (for example, pressing the button for connection).
- Depending on the BLUETOOTH device, the procedure to establish connection may vary. Refer to the manual that came with the device for the procedure.

Hint

- To connect a BLUETOOTH mouse, select it from the device list and click the Next button. If the Select a paring option window appears, select Pair without using a code and click the Next button. Click Close with the mouse you selected to close the window.
- For details on the operations, click (Start) and Help and Support to open Windows Help and Support, and then enter "BLUETOOTH" in the search box.
- · A window appears for passkey input if a BLUETOOTH device is requesting authentication to establish connection. Follow the on-screen instructions to share the passkey between the BLUETOOTH device and your VAIO computer. If you do not wish to connect, click the Cancel button in the window.

A passkey is a secret number that is entered by a user to use for the authentication process to allow two BLUETOOTH devices to communicate with each other. Enter the same alphanumeric string (case-sensitive) for both devices to allow them to communicate with each other. You can change the passkey every time you perform authentication, providing you enter the same passkey for both devices during the authentication process. For details on the passkey of a BLUETOOTH device, refer to the manual that came with the device. If no BLUETOOTH passkey is entered for a certain time, the connection process will be terminated for security. In this case, try again.

Related Topic

About the BLUETOOTH(R) Function <BLUETOOTH equipped models>
Stopping BLUETOOTH(R) Communications <BLUETOOTH equipped models>
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Stopping BLUETOOTH(R) Communications <**BLUETOOTH equipped models>**

Stop BLUETOOTH communications using VAIO Smart Network.

- **1.** Turn off the BLUETOOTH device that is communicating with your VAIO computer.
- 2. In the VAIO Smart Network window, click the switch next to BLUETOOTH to toggle it to Off.

Hint

When another wireless communication function is turned on in the VAIO Smart
 Network window, the WIRELESS indicator light on your VAIO computer stays on.

Related Topic

About the BLUETOOTH(R) Function <BLUETOOTH equipped models>
Communicating with Another BLUETOOTH(R) Device such as a Mouse <BLUETOOTH equipped models>

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Notes on Using the BLUETOOTH(R) Function <BLUETOOTH equipped models>

Before using the BLUETOOTH function, read the following precautions for correct use.

- In some countries or regions, using the BLUETOOTH function may be restricted by the local regulations.
- The BLUETOOTH function may not work with some devices, depending on the manufacturer or the software version employed by the manufacturer. Check the system requirements of the BLUETOOTH device before purchasing. For information on BLUETOOTH devices, visit the VAIO Support website. Some BLUETOOTH devices require authentication (pairing) before establishing connection with another device. Perform the authentication process before connecting to such devices.
- BLUETOOTH devices work on the 2.4 GHz band, which is used by a variety of devices. BLUETOOTH devices use the technology to minimize radio interference from other devices that use the same band; however, radio interference may still cause slower communication speeds, reduce communication range or cause communication failure.
- Communication speed and range may vary depending on the following conditions:
 - Distance between communication devices
 - Existence of obstacles between devices
 - Ambient environment that includes existence of walls and materials of such walls
 - Device configuration
 - Software in use
 - Radio conditions

Communications may be cut off depending on radio conditions.

- When your VAIO computer is equipped with BLUETOOTH Core Specification Version 2.1 + EDR, if both the BLUETOOTH function and the 2.4 GHz wireless LAN function are enabled, interference may occur which causes slower communication speeds or other problems.
- High-speed communications between your VAIO computer and BLUETOOTH devices are available when they are compliant with BLUETOOTH Core Specification Version 3.0 + HS. For high-speed communications, enable both the wireless LAN and BLUETOOTH functions on the computer.
- · Large files may occasionally be corrupted during continuous transfer due to limitations of the BLUETOOTH standard and electromagnetic interference in the environment.
- Connecting multiple BLUETOOTH devices to your VAIO computer may cause channel congestion, resulting in poor device performance. This is normal with BLUETOOTH technology and does not indicate a malfunction.
- · Video and audio may not be synchronized if you play videos on your VAIO computer with audio output from a connected BLUETOOTH device. This is a frequent occurrence with BLUETOOTH technology and does not indicate a malfunction.
- All BLUETOOTH devices must be certified through the procedure stipulated by Bluetooth SIG to ensure that they comply with BLUETOOTH specification. Even if the BLUETOOTH specification is met, individual device performance, specifications, and operation procedures can vary. Data exchange may not be possible in all situations.
- Not all BLUETOOTH devices are guaranteed of compatibility with your VAIO computer.
- To stop the BLUETOOTH function abruptly, set the **WIRELESS** switch to **OFF**.

Related Topic

About the BLUETOOTH(R) Function <BLUETOOTH equipped models>
Communicating with Another BLUETOOTH(R) Device such as a Mouse <BLUETOOTH equipped models>

Stopping BLUETOOTH(R) Communications <BLUETOOTH equipped models>
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About BLUETOOTH(R) Security <BLUETOOTH equipped models>

The BLUETOOTH wireless technology has an authentication function, which allows you to control communication with other devices.

The authentication function helps you prevent unwanted anonymous BLUETOOTH devices from accessing your VAIO computer. The first time two BLUETOOTH devices communicate, a common passkey (a password required for authentication) should be identified to register both devices. Once a device is registered, there is no need to re-enter the passkey.

Your VAIO computer can prevent unauthorized BLUETOOTH devices from finding it and control which devices are allowed to connect with it.

For details, click (Start) and Help and Support to open Windows Help and Support, and then enter "BLUETOOTH" in the search box.

Related Topic

About the BLUETOOTH(R) Function <BLUETOOTH equipped models>
Communicating with Another BLUETOOTH(R) Device such as a Mouse <BLUETOOTH equipped models>

Stopping BLUETOOTH(R) Communications <BLUETOOTH equipped models> Notes on Using the BLUETOOTH(R) Function <BLUETOOTH equipped models> Notes on Using the Wireless LAN Function



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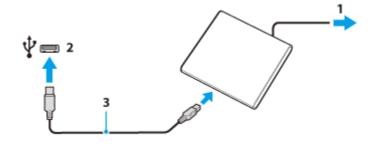
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Connecting an External DVD Drive

Connect an external DVD drive or hard disk drive to a USB port on your VAIO computer.

- 1. Plug the power cord of your external drive into an AC outlet (1).
- 2. Plug one end of a USB cable (3) (not supplied) into the USB port (2), and the other end to the external drive. [Details]



Note

Be sure to connect an external drive to a power source with an AC adapter (if supplied).

Hint

You may need to install a software driver depending on the external drive you use.
 In addition, procedures to connect and use an external drive vary depending on the drive you use. Refer to the manual that came with your external drive for more information.

Related Topic

Connecting a USB Device

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Playing Blu-ray 3D(TM) Disc Media on a 3D TV <Intel Graphics or NVIDIA video controller equipped models> <Blu-ray Disc(TM) Drive equipped models>

If your VAIO computer is equipped with the Blu-ray Disc Drive and the 3D graphics controller*, you can play Blu-ray 3D Disc media and view 3D images on a 3D-capable display, such as a 3D TV, by connecting the display to the computer.

Refer to the manual that came with your 3D TV for information on the 3D TV settings and operations.

- * Intel HD Graphics does not support 3D output for Blu-ray 3D Disc media.
 - **1.** Connect your 3D TV to your VAIO computer with an HDMI cable (not supplied) and configure the 3D TV settings. [Details]
 - 2. Press the Fn+F7 keys several times to switch the display output to an external display. [Details]
 - 3. Set the HDMI output resolution settings on your VAIO computer to 1920x1080 or 1280x720.
 - 4. Start the Blu-ray Disc playback software.
 - 5. Insert Blu-ray 3D Disc media into the optical disc drive. [Details]

Note

- Be sure to follow the instructions in the manuals that came with your VAIO computer when viewing 3D images.
- Be sure to use the 3D glasses specified by the TV manufacturer while viewing 3D images.
- Refer to the manual that came with your 3D TV for detailed information on the 3D function.

Related Topic

Connecting a TV with an HDMI Input Port Changing the Resolution (Size) of the Screen Image on an HDMI-Connected Device Selecting Display Modes



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Inserting/Removing a Disc <Optical disc drive equipped models>

Insert/remove a disc to/from your VAIO computer that is turned on.

- **1.** Press the drive eject button. The drive tray slides out.
- 2. Insert/remove a disc to/from your VAIO computer.

When you insert a disc:

Hold the bottom of the drive tray with one hand, place a disc in the middle of the drive tray, and gently push it down until the disc clicks into place. If the disc is not properly placed when you close the drive tray, it may become unable to open.



Place the disc with the label side facing upward.

Note

- Do not exert pressure on the drive tray when inserting a disc.
- 3. Close the drive tray by pushing it in gently.

Related Topic

Supported Discs<Optical disc drive equipped models>
About Region Codes<Optical disc drive equipped models>

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Supported Discs <Optical disc drive equipped models>

The following table lists media types that are playable/recordable on your VAIO computer. The optical disc drive varies depending on the model you purchased. Find your optical disc drive from the table.

PR: Playable and recordable

P: Playable but not recordable

-: Not playable or recordable

	DVD SuperMulti Drive	Blu-ray Disc Drive with DVD SuperMulti	Blu-ray Disc ROM Drive with DVD SuperMulti
CD-ROM	Р	Р	Р
CD-R/RW	PR *5	PR *5	PR *5
DVD-ROM	Р	Р	Р
DVD-R/RW	PR	PR	PR
DVD+R/RW	PR	PR	PR
DVD+R DL (Double Layer)	PR	PR	PR
DVD-R DL (Dual Layer)	PR	PR	PR
DVD-RAM *1*2	PR	PR	PR
BD-ROM	-	Р	Р
BD-R/RE *3*6	-	PR *4	Р

^{*1} The optical disc drive does not support the DVD-RAM cartridge. Use non-cartridge discs or discs with a removable cartridge.

DVD-RAM Version 2.2/12X-SPEED DVD-RAM Revision 5.0 media are not supported.

Note

- Your optical disc drive may not support writing or playback of some types of media
- Your optical disc drive does not support 8 cm disc writing.
- Your optical disc drive supports only circular discs. Do not use discs in any other shape

^{*2} Writing data to single-sided DVD-RAM media (2.6 GB) compliant with DVD-RAM Version 1.0 is not supported.

^{*3} BD-RE Disc media in Version 1.0 format and Blu-ray Disc media with a cartridge are not supported.

^{*4} Writing data to BD-R Part1 Version 1.1/1.2/1.3 media (single-layer media with the capacity of 25 GB, dual-layer media with the capacity of 50 GB) and BD-RE Part1 Version 2.1 media (single-layer media with the capacity of 25 GB, dual-layer media with the capacity of 50 GB) is supported.

^{*5} Writing data to Ultra Speed CD-RW media is not supported.

^{*6} BDXL(TM) media are not supported.

- (star, heart, card, etc.) or damaged discs, as it may cause your VAIO computer to malfunction.
- DVD-Video format data can be written to DVD+R (single layer or dual layer),
 DVD+RW/DVD-R (Single layer or dual layer), and DVD-RW media. DVD-Video
 Recording format data can be written to DVD-R (single layer or dual layer), DVD-RW,
 and DVD-RAM media. Writable media differ depending on the disc burning software you use. Refer to the help file included with the software for more information.
- It is recommended that you use Sony branded media: DVD+R, DVD+RW, DVD-R, DVD-RW, CD-R, CD-RW, BD-R, or BD-RE.
- You cannot write data to DVD-RW media (6x writing) unless your optical disc drive supports at least 6x writing for DVD-RW media.
- You cannot write data to DVD+RW media (8x writing) unless your optical disc drive supports at least 8x writing for DVD+RW media.
- Your VAIO computer is designed to playback discs that conform to the Compact Disc (CD) standard. DualDiscs and some music discs encoded with copyright protection technologies do not conform to the CD standard. Therefore, these discs may not be compatible with the computer.
- When you buy pre-recorded or blank discs for use with your VAIO computer, be sure to
 read the notices on the disc package carefully to check both playback and recording
 compatibility with your computer's optical disc drives. Sony does NOT guarantee the
 compatibility of VAIO optical disc drives with discs that are not compliant with the official
 "CD," "DVD," or "Blu-ray Disc" standard. USING NON-COMPLIANT DISCS CAN
 CAUSE FATAL DAMAGE
 - TO YOUR VAIO COMPUTER OR CREATE SOFTWARE CONFLICTS AND CAUSE SYSTEM HANGING.
 - For inquiries about disc formats, contact the individual publisher of the pre-recorded disc or the manufacturer of the recordable disc.
- Your VAIO computer needs to be connected to the Internet to play DVD-RW, DVD-RAM, and DVD-R (single layer or dual layer) media that are compliant with the Content Protection for Recordable Media (CPRM) standard.
- To record, edit, or play copyright protected content, Blu-ray Disc media employs the Advanced Access Content System (AACS) technology. To use Blu-ray Disc media continually, you need to update the AACS key.
- You can update the AACS key through the Internet. Follow a message displayed on recording, editing, or playback software you are using. Without updating the AACS key, you may become unable to record, edit, or play copyright protected content. To record, edit, or play content without copyright protection, you do not need to update the AACS key. You can update the AACS key for the Blu-ray Disc recording or playback software installed on your VAIO computer for five years after purchase. After that, we will inform you about the update on the support website.
- Region settings are required for some contents of DVD and BD-ROM Disc media. If the
 region setting on the optical disc drive does not match the region coding on the disc,
 playback is not possible.
- Unless your external display is compliant with the High-bandwidth Digital Content
 Protection (HDCP) standard, you cannot play or view the contents of copyright protected
 Blu-ray Disc media through digital connections, such as an HDMI connection or a DVI
 connection.
- Some Blu-ray Disc content may restrict video output to standard definition or prohibit analog video output.

Related Topic

About Region Codes<Optical disc drive equipped models>



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About Region Codes <Optical disc drive equipped models>

The following table lists DVD region codes indicating playable region of DVD media.

Region code	Seller's country/Region	
1	USA, Canada	
2	Europe, Middle East, South Africa, Japan	
3	Southeast Asia, Taiwan, South Korea, Hong Kong	
4	Central America, South America, Mexico, Australia, New Zealand	
5	North Africa, Asia, Russia, Ukraine, Belarus, India	
6	China	
7	Reserved for future use	
8	International aircraft, international cruise ship, international conference hall, etc.	

Region code indicators are labeled on the discs or packages to indicate in which region and on what type of player you can play the disc. If the region code indicates "all," you can play this disc in most regions of the world. If the region code for your residence area is different from the label, you cannot play the disc on your VAIO computer.

Related Topic

Supported Discs<Optical disc drive equipped models>



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Handling Discs <Optical disc drive equipped models>

Read the following to protect data stored on discs and take proper care of discs.

 Be sure to hold the disc by its edges and central hole without touching the recording surface (playing surface), as shown below. Fingerprints and dust on the surface of a disc may cause a read or write error. Be sure to keep the disc clean.



. Sony assumes no liability for any problems and damages to discs arising out of adhesive labels affixed to discs. Refer to the manual carefully that came with the label software or label paper, and use the labels under your responsibility.



To take proper care of discs

· For normal cleaning, hold the disc by its edges and use a soft cloth to wipe the surface from the center out, as shown below.



- 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. Wipe off any remaining moisture with a dry soft cloth.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray which may cause damage to the disc.

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Notes on Using Discs <Optical disc drive equipped models>

Observe the following notes when using discs on your VAIO computer.

Notes on playing discs

- Depending on system environment, you may find sound interruptions and/or dropped frames during DVD/BD/AVCHD playback. In addition, some discs may not be able to play on your VAIO computer.
- When playing discs:
 - Close other video related software applications.
 - Do not switch the display output between the computer screen and an external display.
 - Your VAIO computer plays discs with playback software, which causes the CPU load.
 Therefore, by closing all running software other than playback software, you can enjoy more smooth playback.

Notes on playing recorded discs on other players

- Some CD players may not be able to play audio CDs created with CD-R or CD-RW media.
- Some DVD players may not be able to play DVDs created with DVD+R DL, DVD-R DL, DVD+R, DVD+RW, DVD-R, DVD-RW, or DVD-RAM media.
- BD-R or BD-RE media created with your VAIO computer are not playable on a Blu-ray Disc recorder that supports only BD-RE Ver.1.0. (Blu-ray Disc Drive with DVD SuperMulti equipped models)

Tips for successful writing

- Do not plug or unplug cables, such as the AC adapter or the power cord while the optical disc drive is writing data to a disc.
- The writing process may take longer to complete than theoretically predicted because some software writes and verifies data simultaneously.
- Sony assumes no liability for any loss or damage of any kind arising out of writing failure.



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Combinations and Functions with the Fn Key

Press and hold down the ${\bf Fn}$ key and another key simultaneously to perform a keyboard shortcut action.

For example, to turn off the sound: $\mathbf{Fn+F2} \to \mathsf{Press}$ and hold down the \mathbf{Fn} key, then press the $\mathbf{F2}$ key.

Some keyboard functions can only be used while Windows is running.

Combination/Feature	Function
Fn + ∰ (F1)	Disables and enables the touch pad. [Details]
Fn + 🕸 (F2)	Turns on and off the built-in speakers or the headphones.
Fn + 2-/2+(F3/F4)	Press the button repeatedly to adjust the volume level of the built-in speakers and headphones. [Details] To increase the volume, press the Fn+F4 keys. To decrease the volume, press the Fn+F3 keys.
Fn + ☆-/ ☆+ (F5/ F6)	Press the button repeatedly to adjust the LCD brightness of your computer screen. [Details] To decrease lighting intensity, press the Fn+F5 keys. To increase lighting intensity, press the Fn+F6 keys.
Fn + ख/⊖ (F7)	Switches the display output to an external display. Press the Fn+F7 keys several times to select the desired display output destination, and then press the Enter key to confirm. [Details]
Fn + 🖫 (F12)	Cuts off power to most of your VAIO computer, including LCD and CPU (Hibernate mode).

Related Topic

About Power Saving Mode



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Setting/Changing the Power-on Password

You can set a password (power-on password) for booting up your VAIO computer, using the BIOS function. Entry of the power-on password will be prompted after the VAIO logo appears to start the computer.

There are two types of passwords. Set the machine password first.

- Machine password (for administrators):
 Allows users with administrative rights to change all the setup options in the BIOS setup screen, as well as to start your VAIO computer.
- User password (for users without administrative rights):
 Allows standard users to change some of the BIOS setup options, as well as to start your VAIO computer. To set the user password, you must first set the machine password.
- Turn on your VAIO computer and press the F2 key repeatedly until the VAIO logo disappears.
 - Enter a password if it has already been set. If you intend to change the current password, enter the password which you want to change. (For example, enter your machine password to change a machine password.)
 - The BIOS setup screen appears. If the screen does not appear, restart the computer and try again.
- Press the ← or → key to select the Security tab, select Set Machine Password
 or Set User Password, and then press the Enter key.
 The password entry screen appears.
- 3. Enter the password and press the Enter key. To change the password, enter the current password and a new password. The password can be set up to 32 alphanumeric characters long (including spaces) and it is case-sensitive.
- Press the ↑ or ↓ key to select Password when Power On, press the Enter key, and select Enabled.
- Press the or → key to select the Exit tab, select Exit Setup, and then press the Enter key.
- 6. At the confirmation prompt, press the Enter key.

Note

- Be sure to write down the password to avoid forgetting it.
- If you forget the password, you cannot boot up your VAIO computer.
- You can reset the user password at the BIOS setup screen by entering the machine password.
- If you forget the machine password, the password must be reset by authorized Sony service/support center. (The reset fee will be charged.)

Related Topic

Removing the Power-on Password
Creating/Changing/Removing Your Windows Password
What should I do if I forget the power-on password to start my VAIO computer?

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Removing the Power-on Password

If power-on password input for booting up your VAIO computer is no longer necessary, follow these steps to remove the machine password and user password.

1. Turn on your VAIO computer and press the **F2** key repeatedly until the VAIO logo disappears.

Enter a password if it has already been set.

The BIOS setup screen appears. If the screen does not appear, restart the computer and try again.

- Press the ← or → key to select the Security tab, select Set Machine Password
 or Set User Password, and then press the Enter key.
 The password entry screen appears.
- **3.** Leave the **Enter New Password** and **Confirm New Password** fields blank and press the **Enter** key.
- Press the ← or → key to select the Exit tab, select Exit Setup, and then press the Enter key.

At the confirmation prompt, press the **Enter** key.

Related Topic

Setting/Changing the Power-on Password
What should I do if I forget the power-on password to start my VAIO computer?

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Creating/Changing/Removing Your Windows Password

Setting the Windows password allows you to protect your VAIO computer from unauthorized access by making the user enter the password when the computer is turned on or returns from power saving mode to Normal mode.

Refer to Windows Help and Support for more information on the Windows password.

- 1. Click (Start) and Control Panel.
- 2. Click User Accounts and Family Safety or User Accounts.
- 3. Click User Accounts.
- 4. Click Create a password for your account, Change your password or Remove your password.
- **5.** Follow the on-screen instructions to enter your password, and then press the **Enter** key.

Note

Do not forget your password. Write down the password and keep it in a secure place.

Hint

You can enter a hint, in order to recall your password should you forget it. You can also
create a password reset disk that can be used to create a new password. Refer to
Windows Help and Support for more information on the Windows password.

Related Topic

Setting/Changing the Power-on Password

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Solving Common Problems with Your VAIO Computer

If you have any problem operating your VAIO computer, try these suggestions before contacting an authorized Sony service/support center or your local Sony dealer directly.

- 1. See other sections in this on-screen manual.
- 2. Start VAIO Care and perform necessary operations.
- 3. Visit the VAIO online support website and find necessary information.

Related Topic

Keeping Your VAIO Computer in Optimum Condition (VAIO Care) Read This First About Online Support Website



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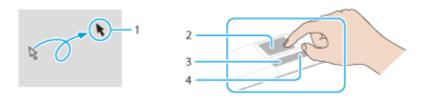
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Using the Touch Pad

By sliding your finger on the touch pad, you can move the pointer on the computer screen. With the pointer on your desired item or object, press the left button or the right button to execute various commands or display menus.



To click

With the pointer (1) on your desired item or object, press the left button (3) once. Alternatively, tap on the touch pad (2) once.

To double-click

With the pointer on your desired item or object, press the left button twice in a row. Alternatively, tap on the touch pad twice quickly.

To right-click

With the pointer on your desired item or object, press the right button (4) once. Depending on the location of the pointer, you can display various shortcut menus.

To drag

With the pointer on your desired object, press the left button once, and while holding down the button, slide your finger on the touch pad.

Alternatively, tap on the touch pad twice quickly, and on the second tap, slide your finger.

To drag and drop

Drag an icon, such as a file, to a folder, a window, or a software icon to your desired location and release the left button.

Alternatively, tap the icon twice quickly, and on the second tap, slide your finger to your desired location and lift the finger off the touch pad.

To scroll

Slide your finger along the right edge up and down to scroll vertically in the active window. Slide your finger along the bottom edge from side to side to scroll horizontally in the active window.

Note

- The scroll function may not work depending on the software you are using.
- · The scroll function may be disabled by default.

Hint

 Refer to the help file of the touch pad for detailed information on how to use the touch pad.

Related Topic

Enabling/Disabling the Touch Pad
Disabling the Tapping Function on the Touch Pad

Troubleshooting

Enabling/Disabling the Touch Pad

You can enable/disable the touch pad on your VAIO computer.

Press and hold down the Fn key and press the F1 key.
 Each time you press the keys, the touch pad is enabled/disabled.

Hint

 Be sure to connect a mouse before disabling the touch pad. If you disable the touch pad before connecting a mouse, you will be able to use only the keyboard for pointing operations.

Related Topic

Using the Touch Pad
Disabling the Tapping Function on the Touch Pad



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Disabling the Tapping Function on the Touch Pad

You can disable the tapping function to avoid unintentional movements of the pointer caused by a light touch on the touch pad.

- 1. Click (Start) and Control Panel.
- 2. Click Hardware and Sound.
- 3. Click Mouse under Devices and Printers.
- 4. Click the Tapping tab or the Device Settings tab. When you click the **Device Settings** tab, click **Settings** and then **Tap**.
- 5. Click to clear the **Tapping** check box or the **Enable Tapping** check box.
- 6. Click OK.

Related Topic

Using the Touch Pad Enabling/Disabling the Touch Pad

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Using the Built-in Camera < Built-in camera equipped models>

If your VAIO computer is equipped with a built-in camera, you can make a video call through the Internet using communication software, such as Windows Live Messenger.

For detailed information on how to use the software, refer to the help file included with the software.

The built-in camera indicator light is on while the built-in camera is in use.

Hint

• The software installed on your VAIO computer varies depending on the computer's configurations.

To make a video call using Windows Live Messenger

1. Click (6) (Start), All Programs, and Windows Live Messenger. You need to sign in to Windows Live Messenger to make a video call.

To display images from the built-in camera

- 1. Click (6) (Start), All Programs, ArcSoft Webcam Suite, and WebCam Companion 4.
- 2. Click Capture.

Hint

 If you cannot capture images properly, for example captured images are not displayed smoothly, click the current resolution of the capturing image in the upper right of the main window and lower the resolution.

Related Topic

Notes on the Built-in Camera < Built-in camera equipped models>

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Notes on the Built-in Camera <Built-in camera equipped models>

- Do not scratch or soil the area on and around the built-in camera, as it may cause poor quality images.
- Do not let direct sunlight enter the lens of the built-in camera regardless of your VAIO computer's power state, as it may cause the camera to malfunction.

Care and cleaning of the built-in camera

If the area on and around the built-in camera is soiled, gently wipe it with a soft cloth, such as a lens cleaning cloth. Do not rub the area too hard, as it can be easily scratched.

Related Topic

Using the Built-in Camera < Built-in camera equipped models>

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Creating Other Drives (modifying partitions)

Partitions are divided areas on your built-in storage device. Dividing the built-in storage device into more than one partition may have various advantages, such as separating the system files from your data files.

Your VAIO computer has only one partition (C: drive) as the factory default setting.* If you want to store data in another partition, such as D: drive, change the partition size and create new partition.

There are two ways to create partitions: using Windows and creating during recovery. For more information on how to create partitions, refer to **Windows Help and Support** and **Creating Partitions during Recovery.** [Details]

* Some models may have D: drive as the factory default setting.

Related Topic

Creating Partitions in Windows
Creating Partitions during Recovery
Removing Recovery Contents to Free up Disk Space

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Creating Partitions during Recovery

There are two ways to create partitions: using Windows and creating during recovery. This topic describes how to create partitions during recovery.

- Press the ASSIST button while your VAIO computer is turned off to start VAIO Care Rescue.
- Click Tools and Start advanced recovery wizard.Follow the on-screen instructions until a screen to select recovery type appears.
- 3. Click Custom recovery Resize C: and create D: drive.
- 4. Enter the C: drive size and click Next.
- 5. Follow the on-screen instructions.

Note

- If you create partitions during recovery, all data on your built-in storage device will be erased
- If you reduce the partition size of the C: drive, Recovery Media creation may fail due to disk space shortage.

Related Topic

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Creating Partitions in Windows

The Windows feature allows you to create a partition without recovering your VAIO computer system.

- Click (Start), Control Panel, System and Security, and Create and format hard disk partitions under Administrative Tools.
 If the User Account Control window appears, click YES.
 Hint
 - If you are currently logged onto your VAIO computer as a standard user, you may be prompted to enter an administrator name and password.
- 2. Right-click the C drive and select **Shrink Volume**.
- 3. Enter the size of the partition to be created in **Enter the amount of space to** shrink in MB and click Shrink.
- 4. Right-click Unallocated and select New Simple Volume.
- 5. Follow the on-screen instructions.

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Removing Recovery Contents to Free up Disk Space

Your built-in storage device contains the recovery area where the data for system recovery is stored. If your VAIO computer includes a solid state drive (SSD), you might want to minimize the recovery area by removing such data.

The above procedure involves system recovery. The applications and data you added on the storage device before removing the data for system recovery will all be lost.

Once you have removed the data for system recovery, you need the Recovery Media for later system recovery.

- 1. Create Recovery Media if you have not yet created the Recovery media. [Details]
- 2. Insert the Recovery Media into the optical disc drive or connect a USB flash drive to the USB port on your VAIO computer while the computer is in Normal mode.
- Turn off your VAIO computer and turn it on once again.
 If you are using the USB flash drive, restart your VAIO computer and press the F11 key repeatedly until the VAIO logo disappears.
- 4. Press the ↑ or ↓ key to select VAIO Care Rescue and press the Enter key.
- 5. Click Tools and Start advanced recovery wizard.
 When the "Do you need to rescue data?" message appears, make a backup copy of your data, if needed.
- **6.** Follow the on-screen instructions until the **Select recovery type** window appears.
- 7. Select Custom recovery Remove recovery contents.
- 8. Follow the on-screen instructions.

Related Topic

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Checking the Volume of the Recovery Area

Your built-in storage device contains the recovery area where the data for the system recovery is stored. To check the volume of the recovery area, follow these steps:

- 1. Click (Start), right-click Computer, and select Manage.
- Click Disk Management under Storage in the left pane.
 The volume of the recovery area and the total volume of the C: drive are displayed in the Disk 0 row in the center pane.



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About Recovery

Recovery is the process of restoring your VAIO computer back to its original factory condition.

There are two ways to recover the computer:

- · From Recovery Media
- · From the recovery area

When do I have to perform recovery?

- If your VAIO computer has become unstable
- If your VAIO computer has been infected with a computer virus
- If your VAIO computer is experiencing problems which cannot be solved through troubleshooting
- . If you have formatted the C: drive by mistake

Which software should I use to maintain and recover my VAIO computer?

Use the following software.

VAIO Care

- · Creating Recovery Media
- · Checking your computer hardware

VAIO Care Rescue

- · Rescuing (backing up) your data
- · Recovering your VAIO computer
- · Erasing all the data on your built-in storage device

Hint

 Refer to the help file included with VAIO Care and VAIO Care Rescue for more information.

What is a recovery area?

The recovery area on the built-in storage device contains data for system and application recovery. Typically, you cannot modify or delete data in this area, however, there is commercially available software designed for this purpose.

Why do I have to create Recovery Media?

Recovery Media are used to restore your VAIO computer back to its original factory condition. If Windows does not start and you have deleted the recovery area, you will need the Recovery Media to perform recovery.

Create the Recovery Media immediately after the computer is ready for use.

Related Topic

Creating Recovery Media
Recovering from the Recovery Area
Recovering from Recovery Media
Notes on Recovery



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Creating Recovery Media

Follow the instructions below to create Recovery Media.

To create Recovery Media

Hint

- You can use optical discs and a USB flash drive as Recovery Media. However, it is recommended that you use optical discs, such as DVD-R, since you may accidentally delete the data on the USB flash drive.
 - The number of necessary discs, the types of media you can use, and the capacity of the USB flash drive you need will be displayed during the Recovery Media creation process.
- 1. Connect your VAIO computer to the Internet, download and install the latest updates using VAIO Update.
- 2. Click (Start), All Programs, and VAIO Care. If the User Account Control window appears, click Yes.

Hint

- If you are currently logged onto your VAIO computer as a standard user, you may be prompted to enter an administrator name and a password.
- 3. Click Recovery & restore, select Recovery, and then click Create Recovery Media.
- 4. Read the on-screen instructions carefully, and then click Next.
- 5. Follow the on-screen instructions.

Note

- It may take some time to display the current status of the procedure.
- Do not eject or disconnect the media while creating Recovery Media, as doing so may result in a failure of the process.
- Keep the Recovery Media in a secure place.

Notes on creating Recovery Media

- Recovery Media is specific to the computer on which it was created.
- · Create Recovery Media immediately after your VAIO computer is ready for use. In the following cases, you may not be able to recover the computer from the recovery area and Recovery Media will be necessary:
 - You have modified the recovery area with software designed for data modification.
 - You have installed an operating system different from the preinstalled operating system on the computer.
 - You have formatted your built-in storage device without using **VAIO Care Rescue**.
- Do not touch or soil the surface of the discs. Fingerprints or dust on the surface may cause read/write errors.
- · Depending on the model you purchased, you may not be able to create Recovery Media using optical discs except DVD-R due to disk space shortage.
- Refer to the help file included with VAIO Care beforehand when you use a USB flash drive as Recovery Media.

Related Topic

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Recovering from the Recovery Area

Recovery from the recovery area on the built-in storage device is faster than recovery using Recovery Media.

See Notes on Recovery [Details] before recovery.

 Press the ASSIST button while your VAIO computer is off to start VAIO Care Rescue.

If the **Edit Boot Options** window is displayed, press the **Enter** key. **VAIO Care Rescue** starts.

Hint

- If the display language selection window appears, select your desired language and click **OK**.
- 2. Click Start recovery wizard.
- 3. Follow the on-screen instructions.

Hint

 To perform the custom recovery, select Tools and click Start advanced recovery wizard.

Related Topic

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Recovering from Recovery Media

If the recovery area data has been corrupted or erased, you can use Recovery Media to recover your VAIO computer. However, it takes longer time to recover using Recovery Media than using the recovery area.

- **1.** Insert the disc into the optical disc drive or connect a USB flash drive to the USB port on your VAIO computer while the computer is in Normal mode.
- Turn off your VAIO computer and turn it on once again.If you are using the USB flash drive, press the F11 key repeatedly until the VAIO logo screen disappears.

The **Windows Boot Manager** screen is displayed.

If the screen does not appear, restart the computer and try again.

- Press the ↑ or ↓ key to select Start VAIO Care Rescue and press the Enter key.
 Hint
 - If the display language selection window appears, select your desired language and click **OK**.
- 4. Select Start recovery wizard.
- 5. Follow the on-screen instructions.

Hint

- To perform the custom recovery, select Tools and click Start advanced recovery wizard.
- If you cannot recover your VAIO computer using the USB flash drive, connect the drive to another USB port on the computer and try recovering the computer again.

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Notes on Recovery

Read the following notes thoroughly before recovering your VAIO computer.

Important notes on recovery

- Recovering your VAIO computer will delete all the data on the built-in storage device
 and restore all the settings to the original factory settings. Make sure you have a backup
 copy of your valuable data.
- Disconnect all peripherals from your VAIO computer except the power cord, the AC adapter, or devices required for recovery before recovering the computer.
- Do not stop the recovery process until the process is complete.
- If you have forgotten the password and cannot start the recovery process, contact an authorized Sony service/support center to reset it. A reset fee will be charged.

Notes on software

- Recovering your VAIO computer can restore only the preinstalled software. The software
 that has been installed on your own or the data you have created since purchase
 cannot be restored. In addition, you cannot restore only Windows.
- Certain preinstalled software includes options that allow the applications to uninstall or install themselves. However, the software may not work properly on your VAIO computer if such options are used.
- Installing software to modify partition sizes may disable recovery or Recovery Media creation.

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About Backup

The backup process creates a backup copy of your data stored on the built-in storage device and saves it to another location.

Due to unexpected events or computer viruses, you might lose various data stored on your built-in storage device. To restore the lost data, its backup copy is needed.

It is strongly recommended that you back up your data regularly.

If you can start Windows, back up and restore your data with the Windows feature.

To use the features, click (Start), Control Panel, System and Security, and Backup and Restore.

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About Types of Backup

You can use the Windows **Backup and Restore** feature to back up your valuable data. There are several types of backup to meet your needs, as described below.

Backing up files

You can select and back up folders and files stored on your VAIO computer to a DVD or an external hard disk drive. For details on how to back up data, refer to **Windows Help and Support**.

Backing up system images

You can create a backup copy of the whole system of your VAIO computer. If the built-in storage device or the computer ever stops working, you can use the system image to restore the computer as it was when backed up.

To create a system image, you need an optional hard disk drive formatted in NTFS format. You can also back up a system image to optical discs such as Blu-ray Disc or DVD disc. For details on how to create a system image, refer to **Windows Help and Support**.

Restore point

After installing new software or changing Windows settings, your VAIO computer may have some problems (such as slow response, unable to launch software, etc.).

You can create a restore point before such an installation or setting change to restore your system to an earlier point in time if it has a problem. For details on a restore point, see **Creating a Restore Point**. [Details]

Note

- We will not restore or compensate for any lost or damaged data under any circumstances including failure of your VAIO computer.
- Create recovery media soon after purchasing your VAIO computer. In the event of the
 computer malfunctioning, and you cannot use the Windows operating system, you can
 use the backup tool included in recovery media to back up your data.
 For how to create recovery media, see Creating Recovery Media. [Details]

Hint

 If your VAIO computer is equipped with no disk drive, you need to connect an external hard disk drive or DVD drive to the computer before backup, or, you need to resize the partition of your C: drive and create another partition before backup. [Details]

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Creating a Restore Point

A restore point enables you to restore your computer system files to a previous state, depending on when the restore point was created.

Typically, restore points are created automatically, for example when you install a software driver. However, we recommend that you create a new restore point manually, using **Control Panel**, before installing any software or software drivers on your VAIO computer. Refer to **Windows Help and Support** for information on creating a restore point.

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Backing Up Your Data when You cannot Start Windows

If you cannot start Windows, back up your data with VAIO Care Rescue.

To rescue your data

 Press the ASSIST button while your VAIO computer is off to start VAIO Care Rescue.

Hint

- · If the display language selection window appears, select your desired language and click OK.
- 2. Click Tools and Rescue Data.
- 3. Follow the on-screen instructions.

Hint

- Alternatively, you can start VAIO Care Rescue with Recovery Media. [Details]
- It is recommended that you select an external hard disk drive as a location to save rescued files if you select Custom rescue.

Notes on using Rescue Data

- Handle rescued files with care to protect from unauthorized access.
- Disable the Windows hard disk drive encryption feature before using **Rescue Data** to back up and restore your data.
 - However, rescued files which are not encrypted on the built-in storage device can be easily accessed by unauthorized users using Recovery Media and this software. Therefore, after using the software, be sure to set the power-on or hard disk password, enable the Windows hard disk drive encryption feature, and keep the Recovery Media in a secure place to protect rescued files from unauthorized access.
- To restore copyright protected data, such as music files organized by digital media playback software, use a backup tool specified by the software you used to import such data. Sony does not guarantee the playback compatibility of data which is not restored with the specified backup tool.
- Using Rescue Data does not guarantee to back up all the data on your built-in storage device.
 - Sony assumes no liabilities for any loss of your data arising out of the backup process.
- Use the power cord or the AC adapter to power your VAIO computer while using this software.
- · Rescued files may be divided into two or more files and saved in a specified location or renamed, depending on the location you select. Use VAIO Data Restore Tool to restore the rescued files. [Details]
- If the external hard disk drive or optical disc drive does not support the USB connection, you need to install a software driver.

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Restoring System Files Using the Restore Point when You cannot Start Windows

When you cannot start Windows, follow these steps to restore computer system files.

- **1.** Insert Recovery Media into the optical disc drive or connect a USB flash drive to the USB port on your VAIO computer while the computer is in Normal mode.
- Turn off your VAIO computer and turn it on once again.
 If you are using the USB flash drive, press the F11 key repeatedly until the VAIO logo screen disappears.

The Windows Boot Manager screen is displayed.

- 3. Press the ↑ or ↓ key to select **Repair Windows 7** and press the **Enter** key.
- 4. Select a keyboard layout and click Next.
 If the appropriate keyboard layout is not selected, you may not be able to enter the password correctly.
- **5.** Select your operating system and click **Next**. The system restore tool selection screen appears.
- Click System Restore.The System Restore window appears.
- 7. Click Next.
- Select a restore point and click Next.The confirmation window of the selected restore point appears.
- Click Finish to confirm the restore point.Restart your VAIO computer if the window prompts you to restart the computer.

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Restoring Your Data with VAIO Data Restore Tool

If you backed up files previously using VAIO Care Rescue, use VAIO Data Restore Tool to restore these files.

For instructions on how to use the software, refer to the help file included with the software.

- 1. Click (Start), All Programs, and VAIO Data Restore Tool.
 - The VAIO Data Restore Tool window appears.
- 2. Click Next.

If the User Account Control window appears, click Yes.

- If you are currently logged onto your VAIO computer as a standard user, you may be prompted to enter an administrator name and password.
- 3. Follow the on-screen instructions.

Note

 To restore copyright protected data, such as music files organized by digital media playback software, use a backup tool specified by the software you used to import such data. Sony does not guarantee the playback compatibility of data which is not restored with the specified backup tool.

Hint

If necessary, move the restored files to an original location.

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About "Memory Stick"

"Memory Stick" is a compact, portable, and versatile IC recording media especially designed for exchanging and sharing digital data with compatible products, such as digital cameras and other devices. Because it is removable, it can be used for external data storage. For the latest information about "Memory Stick", visit http://www.sony.net/memorycard/.

Related Topic

Compatible "Memory Stick" Inserting/Removing "Memory Stick" Formatting "Memory Stick" Notes on Using "Memory Stick"

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Compatible "Memory Stick"

The "Memory Stick Duo" slot on your VAIO computer can accommodate the following sizes and types of media:

- "Memory Stick Duo"
- "Memory Stick PRO Duo"
- "Memory Stick PRO-HG Duo"*
- "Memory Stick Micro"
- * The "Memory Stick Duo" slot on your VAIO computer does not support 8-bit parallel data transfer (high-speed data transfer).

Note

- Your VAIO computer supports only Duo-size "Memory stick", and does not support standard-size "Memory Stick".
- Before using "Memory Stick Micro" ("M2"), be sure to insert it into an "M2" Duo adaptor.
 If you insert the media directly into the "Memory Stick Duo" slot without the adaptor, you may not be able to remove it from the slot.
- Your VAIO computer has been tested and found compatible with any Sony branded "Memory Stick" of up to 32 GB, available as of January 2011. However, "Memory Stick" compatibility is not guaranteed in all cases.
- The "Memory Stick Duo" slot on your VAIO computer does not support the copyright protection feature of "Memory Stick".
- If you use "Memory Stick" in a place subject to static electricity or electrical noise, stored data may be lost.
- The maximum possible size for a file on "Memory Stick PRO Duo" or "Memory Stick PRO-HG Duo" is less than 4 GB, as defined in the file system specification.

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Inserting/Removing "Memory Stick"

You can use "Memory Stick" to save data or transfer images between a digital camera and your VAIO computer. To insert/remove "Memory Stick", follow these steps.

To Insert "Memory Stick"

- 1. Locate the "Memory Stick Duo" slot.
- 2. Hold "Memory Stick" [Details] with the arrow pointing toward the slot, and carefully slide it into the slot until it clicks into place.



"Memory Stick" is automatically detected by your system and the contents of "Memory Stick" are displayed*. If nothing appears on the desktop, click (Start) and Computer, and double-click the "Memory Stick" icon*.

* The drive letter for the "Memory Stick" slot, such as "E:", may vary depending on the system configuration of your VAIO computer.

Note

- The "Memory Stick" icon will appear in the Computer window after you insert "Memory Stick" into the slot.
- If "Memory Stick" cannot be inserted easily, remove it gently, and verify you are inserting it in the proper direction. Be sure to hold "Memory Stick" with the arrow pointing in the correct direction as you insert it into the slot. To avoid damaging your VAIO computer or the media, do not force "Memory Stick" into the slot if you cannot insert it smoothly.

Hint

When you insert "Memory Stick" into the slot for the first time, you may be prompted to
install driver software. If prompted, follow the on-screen instructions to install the
software.

To remove "Memory Stick"

- 1. Locate the "Memory Stick Duo" slot.
- 2. Check that the Media Access indicator light is off.
- 3. Push in "Memory Stick" toward your VAIO computer and release.
- 4. Pull "Memory Stick" out of the slot.

Note

- Do not remove "Memory Stick" while the Media Access indicator light is on. If you do, you may lose data. Large volumes of data may take time to load, so make sure the indicator light is off before removing "Memory Stick".
- Be sure to remove "Memory Stick" gently, or it may pop out unexpectedly.

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Formatting "Memory Stick"

"Memory Stick" is formatted in the specific FAT format by default and is ready for use. Be sure to use the device that is designed to format the media and supports "Memory Stick" when formatting the media.

If you want to reformat the media with your VAIO computer, follow these steps.

Note

- Formatting "Memory Stick" erases the entire data stored on the media. Be sure to make a backup copy of important data to avoid erasing it.
- Do not remove "Memory Stick" from the slot while formatting. This could cause a malfunction.
- 1. Locate the "Memory Stick Duo" slot.
- 2. Carefully slide "Memory Stick" into the slot until it clicks into place. [Details]
- 3. Click (Start) and Computer.
- **4.** Right-click the "Memory Stick" icon and select **Format**. The **Format Memory Stick** window appears.
- 5. Click Restore device defaults.

The size of the allocation unit and file system will change to default settings.

Note

 Do not select NTFS from the File system drop-down list as it may cause a malfunction.

Hint

- The formatting process will be completed more quickly if you select Quick Format in Format options.
- 6. Click Start.

Follow the on-screen instructions.

Note

• It may take time to format "Memory Stick" depending on the media type.

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Notes on Using "Memory Stick"

Before using "Memory Stick", read the following precautions for correct use.

- · Keep "Memory Stick" out of reach of children. There is a risk of swallowing it.
- Do not touch the "Memory Stick" connector with your finger or metal objects.



- "Memory Stick" contains delicate electronic components. Do not impact, bend or drop it.
- · Do not disassemble or modify "Memory Stick".
- · Do not wet "Memory Stick".
- Do not use or store in a location subject to:
 - Extremely high temperature, such as in a car parked in the sun
 - Direct sunlight.
 - High humidity or corrosive substances
 - Excessive dust
- Be sure to use "Memory Stick" and adaptors that are compliant with the standards supported by your VAIO computer. Incompatible cards and adaptors may get stuck in the slot, causing damage to the computer.
- You cannot write data to "Memory Stick" that is write-protected.
- It is recommended that you make a backup copy of important data.
- Stored data may be lost or corrupted if:
 - You remove "Memory Stick" or turn off your VAIO computer while the media access indicator light is on.
 - You use "Memory Stick" at a place where static electricity or electrical noise may disturb the card.
- When carrying "Memory Stick", be sure to put it in its case to avoid static electricity.
- Before using "Memory Stick" with a device other than a computer, such as a digital camera or a portable audio, format (initialize) "Memory Stick" using the device. Some devices may not support the file format for computers and show you a message that recommends you to format "Memory Stick". In this case, copy data from "Memory Stick" to your VAIO computer and format "Memory Stick" using the device. All data in "Memory Stick" will be deleted when you format it.
 - Refer to the manual that came with the device for more information.
- Do not insert foreign objects into the "Memory Stick" slot.
- The "Memory Stick" slot can be used for reading/writing supported "Memory Stick" only, and cannot be used for other purposes.

Notes on Using "Memory Stick Duo"

When using "Memory Stick Duo", do not use a fine-tipped pen to write on the label adhered to "Memory Stick Duo". Exerting pressure on the media may damage internal components.

Notes on Using "Memory Stick Micro"

- Before using "Memory Stick Micro" ("M2"), be sure to insert it into an "M2" Duo adaptor. If you insert the media directly into the "Memory Stick Duo" slot without the adaptor, you may not be able to remove it from the slot.
- Keep "Memory Stick Micro" and "M2" Duo adaptors away from children. They are harmful if swallowed.

Related Topic

About "Memory Stick"

Compatible "Memory Stick"

Inserting/Removing "Memory Stick"

Formatting "Memory Stick"



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Inserting/Removing SD Memory Cards

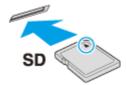
Your VAIO computer is equipped with an **SD** memory card slot. You can use this slot to transfer data among digital cameras, camcorders, music players, and other audio/video devices.

The **SD** memory card slot on the computer can accommodate the following memory cards:

- · SD memory card
- · SDHC memory card
- · SDXC memory card

To insert an SD memory card

- 1. Locate the SD memory card slot.
- **2.** Hold the SD memory card with the arrow pointing toward the slot, and carefully slide it into the slot until it clicks into place.



The SD memory card icon will appear in the **Computer** window after you insert the card into the slot.

Note

- Be careful not to insert an SD memory card with wrong orientation. If you force it into the slot upside down, the slot may be damaged. Refer to the manual that came with the SD memory card for more information.
- The SD memory card icon will not appear in the Computer window until you insert the card into the slot.

Hint

- When you insert the SD memory card into the slot for the first time, you may be prompted to install driver software. If prompted, follow the on-screen instructions to install the software.
- While data is being read from or written to the SD memory card, the media access indicator light is on.

To remove an SD memory card

- 1. Locate the SD memory card slot.
- 2. Check that the media access indicator light is off.
- 3. Push in the SD memory card toward your VAIO computer and release.
- 4. Pull the SD memory card out of the slot.

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Notes on Using SD Memory Cards

Before using SD memory cards, read the following precautions for correct use.

- Keep an SD memory card out of reach of children. There is a risk of swallowing it.
- Do not touch the SD memory card connector with your finger or metal objects.
- An SD memory card contains delicate electronic components. Do not impact, bend or drop it.
- · Do not disassemble or modify an SD memory card.
- · Do not wet an SD memory card.
- Do not use or store in a location subject to:
 - Extremely high temperature, such as in a car parked in the sun
 - Direct sunlight
 - High humidity or corrosive substances
 - Excessive dust
- Be sure to use SD memory cards and adaptors that are compliant with the standards supported by your VAIO computer. Incompatible cards and adaptors may get stuck in the slot, causing damage to the computer.
- You cannot write data to an SD memory card that is write-protected.
- It is recommended that you make a backup copy of important data.
- Stored data may be lost or corrupted if:
 - You remove an SD memory card or turn off your VAIO computer while the media access indicator light is on.
 - You use an SD memory card at a place where static electricity or electrical noise may
 disturb the card
- When carrying an SD memory card, be sure to put it in its case to avoid static electricity.
- Before using an SD memory card with a device other than a computer, such as a digital
 camera or a portable audio, format (initialize) the SD memory card using the device.
 Some devices may not support the file format for computers and show you a message
 that recommends you to format the SD memory card. In this case, copy data from the
 card to your VAIO computer and format the card using the device. All data in the SD
 memory card will be deleted when you format it.
 - Refer to the manual that came with the device for more information.
- · Do not insert foreign objects into the SD memory card slot.
- The SD memory card slot can be used for reading/writing supported memory cards only, and cannot be used for other purposes.
- SD memory cards (up to 2 GB), SDHC memory cards (up to 32 GB) and SDXC memory cards (up to 64 GB) available as of January 2011 have been tested and found compatible with your VAIO computer. However, it is not guaranteed that all SD memory cards, SDHC memory cards or SDXC memory cards will be compatible with the computer.
- The SD memory card slot on your VAIO computer does not support the copyright protection feature of the SD memory card, the SDHC memory card, and the SDXC memory card.
- Do not attempt to insert a memory card or memory card adaptor of a different type into the memory card slot. An incompatible memory card or memory card adaptor may get stuck in the slot, causing damage to your VAIO computer.
- Some types of SD memory cards, for example ones with the UHS (Ultra High Speed data transfer feature), may become extremely hot due to continuous access to the

memory cards. In such a case, wait for a while before removing the memory card until it cools down.

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Safety Information

Refer to the supplied safety manual for detailed safety information.

Computer

- If you drop a solid object or any liquid onto your VAIO computer, shut down the computer, unplug it, and remove the battery pack. You may want to have the computer checked by qualified personnel before operating it again.
- Use only specified peripheral equipment and interface cables.
- · Keep small parts such as "Memory Stick" and "Memory Stick" adaptors out of reach of children. There is a risk of swallowing them.
- The temperature of the surface and the bottom of your VAIO computer, the AC adapter, and the battery pack may rise due to the CPU load or an electric current generated while the battery pack is being charged. This is normal and does not indicate a malfunction. The amount of heat generation varies depending on external devices or software in use.
- If your VAIO computer or the AC adapter becomes extraordinarily hot, turn off the computer, unplug the AC adapter, remove the battery pack, and then contact an authorized Sony service/support center.

Power source

- Do not place heavy objects on the power cord, or this could cause a fire.
- To disconnect the power cord, pull it out by holding the plug. Never pull the cord itself.
- Do not use cut or damaged connection cables.
- Unplug your VAIO computer from the AC outlet if you are not planning to use the computer for an extended period of time.
- If you are not using your VAIO computer for an extended period of time, remove the battery pack from the computer to prevent damage to the battery pack.

Headphones

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



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About the International ENERGY STAR(R) Program



The following information is applicable to ENERGY STAR qualified products only. As an ENERGY STAR Partner, Sony confirmed that this product meets the ENERGY STAR standards for energy efficiency.

The International ENERGY STAR Office Equipment Program is an international program that promotes energy saving through the use of computers and office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption.

For detailed information on the ENERGY STAR Program, visit the following web sites:

- http://www.energystar.gov (USA)
- http://www.eu-energystar.org (Europe)

This computer is designed in compliance with the ENERGY STAR standards and delivered with the following power saving settings that apply to the computer running on AC power:

- The LCD backlight is turned off automatically after no more than 15 minutes of inactivity.
- The computer enters Sleep mode automatically after no more than 30 minutes of inactivity.

Press any key to bring the computer back into Normal mode.

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Cleaning Your VAIO computer/LCD screen

Before cleaning your VAIO computer, read the following precautions for the correct cleaning procedure.

When cleaning your VAIO computer

- Turn off your VAIO computer, unplug the AC adapter, and remove the battery pack before cleaning the computer.
- Use a soft, dry cloth to wipe debris and dust off your VAIO computer.
- Be sure to use a soft, dry cloth when cleaning your VAIO computer. If your VAIO
 computer is badly soiled, fog the surface of the computer with your breath and wipe off
 the dirt, or clean off with a lightly wet cloth and then wipe remaining moisture away with
 a dry cloth.
- Do not use solvents such as benzine, acetone, alcohol, thinner, or commercially available cleaners, as these may cause damage to the surface or coating of your VAIO computer.
- Use an air duster for precision equipment to blow off debris and dust underneath the keys (keycaps). Do not remove any keycap from the keyboard.
 Do not use a vacuum cleaner, as it may cause a malfunction.

When cleaning your LCD screen

- Be sure to use a soft, dry cloth when cleaning your VAIO computer. If the LCD screen is badly soiled, fog the surface of the LCD screen with your breath and wipe off the dirt, or clean off with a lightly wet cloth and then wipe remaining moisture away with a dry cloth.
- Do not use solvents such as benzine, acetone, alcohol, thinner, or commercially available cleaners, as these may cause damage to the LCD screen.

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How do I change the LCD brightness?

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What should I do if some items do not fit on the computer screen?

What should I do if the top, bottom, and sides of images are not displayed because they are too large to fit on the computer screen?

What should I do if black bars appear along the top, bottom, and sides of the computer screen when I display images?

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What should I do if I forget the power-on password to start my VAIO computer?

- If you forget the password [Details], you cannot start your VAIO computer.
 - When you forget your user password:
 Enter the machine password to reset the user password at the BIOS setup screen.
 - When you forget your machine password:
 The password needs to be reset and a fee will be charged. To reset the password, contact an authorized Sony service/support center.

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What should I do if sound interruptions occur during video or audio playback?

 Sound interruptions may occur when the CPU load is high. In this case, reduce the CPU load by exiting all running software other than playback software, or by disabling unnecessary audio effects applied to playback.

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What should I do if I do not hear sound from a digital audio device connected to the digital output port?

 To output sound from a digital audio device connected to the digital output port on your VAIO computer, you need to change the sound output to the digital audio device.
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What should I do if my microphone does not work?

- Check if your microphone is selected as a recording device.
 Click Hardware and Sound in the Control Panel window, select the Recording tab in the Sound window, and check if there is a check mark on your desired microphone icon. If not, select the icon and click Set Default. If the icon is not displayed, make sure the microphone is properly connected to your VAIO computer.
- If you are using an external microphone, use a plug-in power microphone.

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from speakers when using my microphone?

What should I do if I hear microphone feedback

- Microphone feedback may occur when your microphone receives the sound from a sound output device, such as speakers.
 - Keep the microphone away from a sound output device.
 - Turn down the volume of the speakers and the microphone.

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What should I do if I do not hear sound from speakers or headphones?

- · Check if the volume from speakers or headphones is not minimized.
 - Keep pressing the Fn+F4 keys to turn up the volume loud enough to hear sound.
 [Details]
- Check if the volume in Windows is not turned off or minimized. [Details]
 When the volume is turned off (), click (Deactivate muting) to turn on the volume (). When the volume is minimized, turn up the volume.
- When connecting external speakers or headphones, check the following:
 - Make sure external speakers or headphones are properly connected to your VAIO computer. [Details]
 - If external speakers require external power, make sure the speakers are securely connected to an AC outlet.
 - o Make sure external speakers are turned on.
 - o Make sure the volume from external speakers is not minimized.
- Make sure the sound output device is correctly selected. [Details]
- · Check the volume on the playback software you are using.

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What should I do if I cannot use the BLUETOOTH(R) function?

- Make sure the **WIRELESS** indicator light on your VAIO computer is on.
 - When the **WIRELESS** indicator light is off, you cannot use the BLUETOOTH function.
 - Set the WIRELESS switch on the computer to ON and open the VAIO Smart
 Network settings window to make sure that the switch next to BLUETOOTH in the
 window is toggled to On.
- Check whether the BLUETOOTH function is enabled.
 Click (Start), All Programs, and VAIO Smart Network or click (the VAIO Smart Network icon) in the desktop notification area to open the VAIO Smart Network settings window. Make sure that the switch next to BLUETOOTH in the window is toggled to On.

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What should I do if other BLUETOOTH(R) devices cannot connect to my VAIO computer?

- See What should I do if I cannot find the BLUETOOTH device I want to communicate with?. [Details]
- Make sure that the authentication (pairing) between the device and your VAIO computer has been properly performed.
 Some BLUETOOTH devices require authentication (pairing) before establishing connection with another device. Perform the authentication process before connecting to such devices.
- Make sure that your VAIO computer allows BLUETOOTH devices to find the computer.
 Click (arrow) in the desktop notification area, right-click (the BLUETOOTH icon),
 and click Open Settings to open the settings window. Click the Options tab and make sure that the Allow Bluetooth devices to find this computer check box is selected.

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What should I do if the BLUETOOTH(R) icon is not displayed in the desktop notification area?

- Make sure that the switch next to BLUETOOTH is set to On in the VAIO Smart Network window.
- Follow these steps to open the Bluetooth Settings window and check the settings:
 Click (Start) and Devices and Printers. Right-click the BLUETOOTH device icon
 and click Bluetooth settings. Click the Options tab and select the Show the
 Bluetooth icon in the notification area check box.

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What should I do if I cannot find the BLUETOOTH(R) device I want to communicate with?

• Shorten the distance between your VAIO computer and the BLUETOOTH device within 33 feet/10 meters.

If the computer is more than 33 feet/10 meters away from the BLUETOOTH device, communication will not be possible.

The computer may not be able to communicate with the BLUETOOTH device even within 33 feet/10 meters due to obstacles between the devices, radio wave quality, ambient environment that includes existence of walls and materials of such walls, or software in use. In such a case, move the computer away from obstructions or closer to the device.

- Check that the BLUETOOTH function of the device you want to communicate with is on, and the device is not in the power saving mode.
- Check that the BLUETOOTH function of the device you want to communicate with is enabled.

Refer to the manual that came with the device for more information.

 If the device you want to communicate with is already communicating with another BLUETOOTH device, it may not be found or it may not be able to communicate with your VAIO computer.

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Why is my BLUETOOTH(R) connection slow?

- Data transfer speed depends on obstructions and/or the distance between the two devices, radio wave quality, and the device configuration or software in use.
 Move your VAIO computer and BLUETOOTH device closer to each other.
- If a version of a BLUETOOTH standard employed on the BLUETOOTH device with which
 you want to communicate is not the same version as the one employed on your VAIO
 computer, the communication speed may become slower.
- When your VAIO computer is equipped with BLUETOOTH Core Specification Version 2.1
 + EDR, if both the BLUETOOTH function and the wireless LAN function are enabled, interference may occur resulting in slower communication speed or other problems.
- Your VAIO computer and BLUETOOTH devices need to be compliant with BLUETOOTH
 Core Specification Version 3.0 + HS for high-speed communication between them.
 Furthermore, enable both the wireless LAN and BLUETOOTH functions on the computer
 beforehand. Some BLUETOOTH profiles do not support high-speed communication.

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Why can't I use the BLUETOOTH(R) function when I log onto my VAIO computer as a user with a standard user account?

• The BLUETOOTH function may not be available to a user with a standard user account on your VAIO computer.

Log onto the computer as a user with administrative rights.

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Why can't I use BLUETOOTH(R) devices when I switch users?

• If you switch users without logging off your system, BLUETOOTH devices will not work. Be sure to log off before switching users.

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Why can't I exchange business card data with a mobile phone or PDA?

• The business card exchange function is not supported.

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What should I do if the drive tray does not open?

- The drive tray may not open with the drive eject button depending on your VAIO computer status.
 - Exit all running software and press the drive eject button.
 - If the drive tray still does not open, restart the computer and press the drive eject button again.
- The drive tray does not open while your VAIO computer is in a power saving mode.

 [Details]

Resume the computer from a power saving mode and then restart the computer.

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Why does it take time to write data to DVD writable media?

• In disc-at-once mode, it may take about 20 to 40 minutes to complete the writing process after the progress bar reaches 100%. This is normal and does not indicate a malfunction, so wait until the process is complete.

Because disc-at-once mode writes all the data to a disc at one time, the optical disc drive writes 1 GB of dummy data to a disc even when the actual data size is less than 1 GB to ensure playback compatibility.

Some players can play only discs that are created in disc-at-once mode. When you play the created disc on a player other than your VAIO computer, make sure if the player supports disc writing mode you selected.

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What should I do if I cannot play a disc, or dropped frames and/or sound interruptions occur during playback?

- Exit all running software other than playback software.
- Try using other playback software, such as DVD playback software.
- Change the theme to Windows 7 Basic from Control Panel if the current theme is Windows Aero.
- To play DVD media with Content Protection for Recordable Media (CPRM), you need to install a CPRM pack for playback software on your VAIO computer.
- Uninstall playback or writing software installed on your VAIO computer after purchase.
 For instructions on how to uninstall the software, refer to the help file included with the software or Windows Help and Support.

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Why can't I write data to a disc?

- DVD+R DL, DVD+R, DVD-R DL, or DVD-R media are not rewritable. You can write data to such media only once and cannot delete data on the media.
- See Supported Discs for more information. [Details]

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

 This is normal. Because your VAIO computer's CPU utilizes a type of CPU speed controlling technology for power conservation purposes, the **System Properties** window may display the current CPU speed instead of the maximum speed.

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Why is my VAIO computer running slowly and the CPU clock frequency low while the computer is running on battery power?

 While your VAIO computer is running on battery power, the CPU clock frequency is reduced for power conserving purposes, which causes the computer to run slowly. This is normal and does not indicate a malfunction.

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What should I do if I cannot boot my VAIO computer from the floppy disk drive?

• Turn on your VAIO computer and press the **F11** key repeatedly until the VAIO logo disappears.

If the computer does not boot, restart the computer and try again.

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What should I do if I cannot remove my floppy disk?

• Close open file(s), make sure the indicator light on the USB floppy disk drive is off, and then remove your floppy disk from the drive.

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What should I do if my VAIO computer does not recognize the floppy disk?

- Make sure the floppy disk is properly inserted in the USB floppy disk drive connected to your VAIO computer.
- Make sure the floppy disk is right-side up before inserting it into the drive.
- Make sure the USB floppy disk drive is securely connected to your VAIO computer. Remove the floppy disk from the drive and then insert it again.

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What should I do if I cannot save data on my floppy disk?

- Make sure your floppy disk is properly inserted in the USB floppy disk drive connected to your VAIO computer.
 - Make sure the floppy disk is right-side up before inserting it into the drive.
- If a message indicating that your floppy disk is full appears, your floppy disk does not have enough free space.
 - Change the floppy disk to another with enough free space and then save data again.
- If a message indicating that your floppy disk is write-protected appears, slide a write-protect tab on the floppy disk to disable the write-protect feature.
 Sliding the write-protect tab to the open position enables the write-protect feature.

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What should I do if the pointer does not move?

- When the pointer does not move because your finger reached an edge of the touch pad, take the finger off the touch pad and put the finger on the touch pad around the center of the touch pad.
- The pointer may not move as intended depending on the software you are using.
 In such a case, wait for a while before moving the pointer again.
 If the pointer still does not move, press the Ctrl+Alt+Delete keys and click (shut down) located at the lower right corner of your VAIO computer screen to turn off the computer.

If the problem persists, press and hold the power button or slide the power switch to the right for more than four seconds.

Turning off the computer with the **Ctrl+Alt+Delete** keys, the power button, or the power switch may cause loss of unsaved data.

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What should I do if my VAIO computer screen freezes?

Restart your VAIO computer.
 Press the Ctrl+Alt+Delete keys and click (arrow) and Restart.
 If the problem persists, press and hold the power button for more than four seconds, or slide the power switch to the right for more than four seconds.

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

- · Check if the Caps lock indicator light is on or off. If the indicator light is on, characters appear in uppercase when you press a key without holding down the Shift key. Press the Shift+Caps Lock keys to turn off the indicator light, and then you can type characters in lowercase. [Details]
- · Check if the Num lock indicator light is on or off. If the indicator light is on, you can type numeric characters printed on each key on the keyboard.

If the indicator light is off, you can type alphanumeric characters printed on each key on the keyboard.

Press the **Num Lk** key to turn on the indicator light. Press the key again to turn off the indicator light. [Details]

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What should I do if my keyboard configuration is wrong?

The language layout of your keyboard is labeled on the packaging box. If you choose a
different regional keyboard when you complete the Windows setup, the key configuration
will be mismatched. To change the keyboard configuration, refer to Windows Help
and Support.

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Why doesn't the "Memory Stick Duo" icon appear in the Computer window?

• The icon does not appear when no "Memory Stick Duo" is inserted into the slot.

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Why can't I write data to a memory card?

 Some types of memory cards are equipped with an erasure prevention switch to protect data from unintentional erasure or overwriting. Make sure the erasure prevention switch is off.

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Why doesn't the memory card icon appear in the Computer window?

• The icon will not appear if no memory card is inserted in the slot.

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What should I do if I forget the Windows password?

- The Windows password is case-sensitive. Check your password and enter again.
- Log on using a user account that has system administrator privileges to reset your password.
 - If you forget all passwords for system administrator accounts, you cannot reset any Windows passwords. You need to perform system recovery. [Details]

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What should I do if the Enter Onetime Password message appears and Windows does not start after I enter a wrong power-on password three times consecutively?

- Press and hold down the power button for more than four seconds and check if the power indicator light is off. Then, restart your VAIO computer and enter the correct password.
 The password is case-sensitive, so be sure to check letters for the current case before you enter the password.
- If you forget the power-on password, you cannot start your VAIO computer. [Details]

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Why do sound interruptions and/or dropped frames occur when I play high-definition videos, such as those recorded with the AVCHD digital video camcorder?

 Playing high-definition videos requires substantial hardware resources, such as CPU, GPU, or system memory performance on your VAIO computer. During the video playback, some operations and/or functions may become unavailable, and sound interruptions, dropped frames, and playback failure may occur depending on the configuration of the computer.

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

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



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What should I do if I cannot print a document?

- Make sure the printer settings are correctly configured.
 For information on the printer settings, refer to the manual that came with your printer.
- Make sure your printer is on.
 Refer to the manual that came with your printer for more information.
- Make sure the connections between the printer's power cord and AC adapter and between the AC adapter and an AC outlet are securely made.
- Make sure the appropriate printer driver is installed.
 When you connect a new printer, you first need to set up the printer driver. For information on how to set up the printer driver, refer to the manual that came with your printer, or visit the website of the manufacturer.
- Make sure the status of your printer is displayed as online or ready. Then, make sure the
 printer settings are correctly configured as instructed in the manual that came with the
 printer.
- Make sure your printer is set to Set as Default Printer. Refer to Windows Help and Support for more information.
- Make sure your printer is compatible with Windows installed on your VAIO computer.
- Make sure your printer is connected to your network (LAN).
 If the printer is directly connected to the network (LAN), make sure a router or a hub is on.
 - If the printer is connected to a printer server, make sure an error message is not displayed on the printer server.
- Make sure your software is working properly.
 The software may not support your document format. In such a case, your document will not be printed properly. Contact the software publisher or the manufacturer of your printer.
- Make sure the correct printer port for your printer is selected.
 For more information on the printer port settings, refer to the manual that came with the printer, or contact the manufacturer.

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What should I do if my VAIO computer does not recognize the USB device?

- · Check if the USB device is on and using its own power supply.
 - o If you are using a digital camera, check if the battery is charged.
 - If you are using a printer, check if the power cable is connected properly to an AC outlet.
- You may need to install a USB driver for the USB device before connecting the device.
 Refer to the manual that came with the USB device for more information.
- Try using another USB port on your VAIO computer. The USB driver could be installed to the specific port you used the first time you connected the device.
- USB hubs may prevent the USB device from working because of a power distribution failure. We recommend you connect the device directly to your VAIO computer without a hub.

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What should I do if a message appears indicating that the battery pack is incompatible or has been incorrectly installed, after which my VAIO computer enters Hibernate mode?

- This problem could be due to the battery pack not being installed properly. To solve this
 problem, turn off your VAIO computer and remove the battery pack, then reinstall it.
 [Details]
- If the problem persists, it is likely the installed battery pack cannot be used with your VAIO computer, or may have failed. Turn off the computer, remove the battery pack and replace it with a new one specified by Sony.

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Why can't I fully charge my battery pack?

 If ambient temperature is outside the specified range or the power consumption of your VAIO computer is high when you charge the battery pack, the charge current may be reduced.

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Why doesn't my VAIO computer enter Hibernate mode when the battery pack is running out of power?

• This problem occurs when Windows does not allow a task to be suspended, depending on the running software or the connected external device.

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quality images?

Why does the viewfinder show no images or poor-

- The built-in camera cannot be shared by more than one software application. Exit the current application before starting another.
- On models with **Media Gallery**, you cannot use another camera application that uses the built-in camera while using the gesture function of **Media Gallery**.
- The viewfinder may show some noise, for example horizontal streaks, when you are viewing a rapid-moving object. This is normal and does not indicate a malfunction.
- If the problem persists, restart your VAIO computer.

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Why is the video input from the built-in camera suspended momentarily?

- The video input may be suspended momentarily if:
 - A shortcut key with the **Fn** key is used.
 - The CPU load increases.

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Why are captured images poor in quality?

- Images captured under fluorescent light may contain light reflections.
- A dark portion in captured images may contain noise.
- The area on and around the built-in camera is soiled. Clean the area. [Details]

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What should I do if captured images contain dropped frames and audio interruptions?

- The effect settings on your software application may cause dropped frames. Refer to the help file included with your software application for more information.
- There may be more software applications running than your VAIO computer can handle. Exit the applications that you are not currently using.
- This problem may occur while your VAIO computer is running on the power saving plan, which reduces the CPU performance. Check the current power plan. [Details]

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What should I do if captured images flicker?

This problem occurs when you use the built-in camera under fluorescent lights due to a
mismatch between the lighting output frequency and the shutter speed.
 To reduce flicker noise, change the direction of your VAIO computer so that you can
adjust the direction of the built-in camera. Some software applications offer adjustable
parameters, such as brightness, to eliminate flicker noise.

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What should I do if my computer screen goes blank?

- Make sure your VAIO computer is on and not in a power saving mode. [Details]
- Make sure your VAIO computer is securely plugged into an AC outlet [Details] and the power indicator light is on.
- The computer screen may be off.
 Press any key on the keyboard.
- The display output may be set to an external display.
 Press the Fn+F7 keys several times to select your desired display output, and then press the Enter key. [Details]
- If your VAIO computer is running on battery power, make sure the battery pack is installed properly and is charged. [Details]
- If you wait for a while and the computer screen remains blank, follow the procedures below:
 - Press and hold down the power button for more than four seconds, check if the power indicator light is off, and then turn on your VAIO computer.
 - If the problem persists, press and hold down the power button for more than four seconds and check if the power indicator light is off. Disconnect all cables and peripheral devices, such as the power cord and the USB device, and wait about five minutes. Then, put them back in place and turn on your VAIO computer again. For notebooks, remove the battery pack before restarting the computer.

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What should I do if I cannot see proper images on the computer screen?

Make sure the screen color setting is set to True Color (32 bit). Refer to Windows
 Help and Support for more information on how to change the setting.

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What should I do if videos are not displayed on the computer screen?

- The video memory of your VAIO computer may be insufficient for displaying high resolution videos. In such a case, lower the resolution of the LCD screen. [Details]
- If the external display is selected as the display output with the Fn+F7 keys and is
 disconnected from your VAIO computer, the computer screen may become unable to
 display a video.

In such a case, stop video playback, press the **Fn+F7** keys to select the computer screen as the display output, and then press the **Enter** key. Then, restart video playback.

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What should I do if videos are not displayed smoothly?

- It is recommended you disable your screen saver.
 If the screen saver is enabled, it may be activated during DVD playback and prevent the playback from running successfully. Some screen savers have been found to even change the display resolution and colors.
- If you have set the display output to both the computer and an external display, change the display output to either of them.
- If you are running aero, change the current theme.

 Refer to **Windows Help and Support** for information on how to change the theme.
- Some videos may not be displayed smoothly depending on the type or bit rate of the videos. Lowering the screen resolution may improve video playback performance.
 [Details]

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What should I do if no image is displayed on my TV screen or external display connected to the HDMI output port?

- Reconnect the HDMI cable (not supplied). [Details]
- Make sure you are using an HDCP-compliant display. The copyright protected content is not displayed on a non-HDCP compliant display.

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How do I change the LCD brightness?

- Press the Fn+F5 or Fn+F6 keys to adjust the LCD brightness of your VAIO computer.
 [Details]
- To adjust the LCD brightness of the connected external display, such as a computer display or a TV, use the brightness control on the external display.

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What should I do if no image is displayed on my external display or TV screen?

Press the Fn+F7 keys several times to select your desired display output, and then
press the Enter key. [Details]

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What should I do if some items do not fit on the computer screen?

Check that the text size is set to 100%. If not, some items, for example a software menu, may not be displayed correctly, depending on the software you are using.
 Refer to Windows Help and Support for more information on how to change the text size.

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What should I do if the top, bottom, and sides of images are not displayed because they are too large to fit on the computer screen?

- Change the resolution (size) of the screen image. [Details]
- Adjust the screen resolution in the HDMI output resolution settings. [Details]

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What should I do if black bars appear along the top, bottom, and sides of the computer screen when I display images?

- Change the resolution (size) of the screen image. [Details]
- Adjust the screen resolution in the HDMI output resolution settings. [Details]

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What should I do if 3D images are not displayed on my 3D TV connected to the HDMI output port?

- Check if the Blu-ray Disc playback software settings are correctly configured.
- If your VAIO computer is connected to your 3D TV through an AV amplifier, make sure the AV amplifier supports 3D playback.
- Check the HDMI output resolution settings on your VAIO computer. If the resolution is not set to **1920x1080** or **1280x720**, images are not displayed in 3D.
- You should also refer to the manual that came with your 3D TV for more information on 3D playback.

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What should I do if I cannot find [] (the VAIO Smart Network icon) in the desktop notification area?

• Click (arrow) in the desktop notification area to view all the icons.

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What should I do if I cannot use the wireless LAN function?

- Make sure the **WIRELESS** switch is set to **ON**. [Details]
- To use the wireless LAN function on your VAIO computer, you need to set up the function. Check the wireless LAN settings of the computer. [Details]
- If connection utility software supplied with a third-party wireless LAN product is installed, uninstall it.
 - If connection utility software is installed, Windows may fail to configure the wireless LAN settings. Be sure to take a note of your settings, (such as security keys) before uninstalling.

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What should I do if I do not know the SSID or security key for the access point?

• You can find the key in the setting screen of your access point.

Refer to the manual that came with your access point for more information.

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What should I do if I cannot connect my VAIO computer to an access point (or the Internet)?

- See What should I do if I cannot use the wireless LAN function?. [Details]
- · Make sure power to the access point is on.
- Check the access point settings.
 In the following settings, your VAIO computer may fail to connect to an access point, or the connection may be unstable.
 - When the access point is set to refuse communication with a device whose SSID is set to "ANY," and the SSID of your VAIO computer or the access point is set to "ANY."
 - When the access point is in stealth mode.
 For more information, refer to the manual that came with your access point, or consult your wireless LAN service provider.
- Make sure your VAIO computer and access point are connected to one another. [Details]
- Connection capability is affected by distance, obstructions, device configuration, radio wave strength/interference, wall materials, running software, etc.
 Move your VAIO computer away from obstructions or closer to any access point you may be using.
- Check that your access point is displayed in the Currently connected to window.
 Click (Start), Control Panel, Network and Internet, Network and
 Sharing Center, and Connect to a network, and then check that your access point is displayed in the Currently connected to window.
- Make sure the security key is correct.
 The security key is displayed as "•" for security reasons. Enter once more. [Details]
- Make sure that the wireless LAN function settings of your VAIO computer correspond with the settings of your access point. [Details]
- Make sure your VAIO computer is properly configured for Internet access.
 If your antivirus software or firewall function of the Windows operating system imposes restrictions on Internet access, your VAIO computer may not connect to the Internet.
 Check the settings.
- Make sure Maximum Performance is selected for Wireless Adapter Settings in the Power Options window.
 Click (Start), Control Panel, System and Security and Power Options.
 Click Change plan settings for the current power plan and Change advanced

Click Change plan settings for the current power plan and Change advanced power settings. Select the Advanced settings tab and double-click Wireless Adapter Settings and Power Saving Mode, and then select Maximum Performance.

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What should I do if I cannot play back movies or audio tracks received via wireless LAN, or their playback is interrupted? Why is the data transfer speed slow?

- Move your VAIO computer away from obstructions, or closer to any access point you
 may be using.
 - Connection capability is affected by distance, obstructions, device configuration, radio wave strength/interference, wall materials, running software, etc.
- If you are using an access point, the device may be temporarily overloaded depending on how many other devices are communicating via the access point.
 Wait for a while and try again.
- Change the channel setting of your access point. By changing the channel, interference
 on your wireless network may be reduced and data transfer speed may improve.
 If access point channel interference occurs, data transfer speed may be reduced.
- If your access point interferes with other access points, change the access point channel. Refer to the manual that came with your access point for more information.
- Make sure that a microwave oven is not operating near your wireless LAN devices.
 The 2.4 GHz frequency band, on which the wireless LAN operates, is used by various devices and apparatus. If you use a microwave oven while communicating via wireless LAN, data transfer rate may slow down, communication range may narrow, or communication may be interrupted.
- Make sure Maximum Performance is selected for Wireless Adapter Settings in the Power Options window. [Details]

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How can I find the physical address (MAC address) of the built-in wireless network interface of my VAIO computer?

 If MAC address filtering of your access point is enabled, register the MAC address of your VAIO computer in the setup screen of the access point. Otherwise, the computer cannot connect to the access point.

Click (Start), All Programs, Accessories, Command Prompt, and then enter "ipconfig /all" and press the Enter key. You can find the physical address (MAC address) in the Physical Address field under Wireless LAN adapter Wireless Network Connection:. Enter the address in the setup screen of the access point.

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Why doesn't my computer screen turn off after the automatic turn-off time has passed?

Some software applications or screen savers are designed to temporarily disable the
feature of Windows that turns off the computer screen or places your VAIO computer into
Sleep mode after a certain period of inactivity. To solve this problem, exit the running
software application(s) or change the current screen saver.

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What should I do if my VAIO computer does not turn on (the power indicator light does not turn on in green)?

- Make sure all cables are securely connected to devices, such as between your VAIO
 computer and the AC adapter; the AC adapter and the power cord; and the power cord
 and an AC outlet. [Details]
- If you plug the power cord of your VAIO computer into a power strip with a switch, make sure the switch is turned on and the power cord of the power strip is securely plugged into an AC outlet.
- If you do not turn off your VAIO computer through the normal procedure, the power
 controller may be suspended due to a program error.
 Disconnect all cables and peripheral devices, such as the power cord and the USB
 device, remove the battery pack, and wait about five minutes. Then, put them back in
 place and turn on the computer again.
- Before using your VAIO computer for the first time, you need to connect the computer to a power source with the AC adapter.
- Check that you are using the supplied Sony AC adapter. For your safety, use only the genuine Sony rechargeable battery pack and AC adapter, which are supplied by Sony for your VAIO computer.
- Make sure the battery pack is installed properly.
- The battery pack may have run out of power.
- Make sure your VAIO computer is not in Hibernate mode by pressing the power button on the computer. Note that if you press and hold down the power button for more than four seconds, the computer will turn off.
- If you bring your VAIO computer directly from a cold location to a warm one, or use it in a high humidity location, moisture may condense inside the computer.
 In such a case, allow at least one hour before turning on the computer.
 Do not use the computer in a high humidity location (a relative humidity of more than 80 %), as it may cause the computer to malfunction.

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What should I do if my VAIO computer does not turn on or the power button does not work (the power indicator light blinks fast)?

- The battery pack may not be installed properly.
 Remove the battery pack and reinstall it properly. [Details]
- If the problem persists, it means the installed battery is not compatible with your VAIO computer.
 Remove the battery pack.

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What should I do if the power indicator light turns on in green when I press the power button but the screen remains blank?

- · Make sure the brightness and contrast controls are adjusted correctly.
- An external display may be selected as the display output.
 Press the Fn+F7 keys several times to select your desired display output, and then press the Enter key.
- If you are using an external display, make sure it is plugged into an AC outlet and is on.
 Make sure the brightness and contrast controls are adjusted correctly.
 Refer to the manual that came with your display for information on how to change the settings.
- Press the Alt+F4 keys several times to close the application window.
 An application error may have occurred.
- If you wait for a while and the computer screen remains blank, restart your VAIO
 computer by following the procedures below in order. Note that following these
 procedures may cause working data to become corrupted.
 - Disconnect all peripheral devices, such as a printer or a USB device, and your VAIO computer from the network, if any.
 - Press and hold down the power button for more than four seconds and make sure the power indicator light is off. Then, turn on your VAIO computer again.
 - If the problem persists, press and hold down the power button for more than four seconds and make sure the power indicator light is off. Disconnect all cables connected to your VAIO computer, such as the AC adapter, remove the battery pack, and wait more than five minutes. Then, put all cables, peripheral devices, and the battery pack back in place and turn on the computer again.
- If an extra memory module is not installed properly, your VAIO computer may not turn on.
 Use of memory modules not specified by Sony or improper installation of memory modules may cause the computer to fail to boot or to become unstable.
 In such a case, reinstall the memory module.
 - If you use a memory module other than the Sony branded memory module, contact the sales dealer or the manufacturer of the memory module.
- If you bring your VAIO computer directly from a cold location to a warm one, or use it in a high humidity location, moisture may condense inside the computer.
 In such a case, allow at least one hour before turning on the computer.
 Do not use the computer in a high humidity location (a relative humidity of more than 80 %), as it may cause the computer to malfunction.

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What should I do if I cannot turn off my VAIO computer?

- Follow any of these procedures to exit all running software and then turn off your VAIO computer again.
 - o Click the close button in the window of the running software.
 - o Press the Alt+F4 keys. If there is unsaved data, a message prompting you to save data appears. Click the button to save data.
 - Press the Alt+F4 keys until the Shut Down Windows window appears, select **Shut down** from the drop-down list, and click **OK**.
- If you have installed new software on your VAIO computer, check if the software is working properly, its data is normal, and you have operated it correctly.
- Contact the software publisher or designated provider for technical support.
- If you connect peripheral devices, such as a printer or a USB device, to your VAIO computer or connect the computer to your network, disconnect all peripheral devices or the computer's network connection and then turn off the computer. While the computer is communicating with a peripheral device or the network, Windows does not allow you to turn off the computer. In addition, some peripheral device drivers
- If the computer screen freezes, press the Ctrl+Alt+Delete keys and click (Shut) down) in the lower right corner of the computer screen.

for the peripheral devices do not support the feature to force the computer to shut down.

- If your VAIO computer freezes with a message indicating the settings are being saved or the computer is shutting down displayed, follow these procedures in order.
 - Press the Enter key. Wait for a while.
 - If the problem persists, press the Ctrl+Alt+Delete keys. Wait for a while.
- If you still cannot turn off your VAIO computer even after you follow all the above procedures in this topic, perform the following operations. Note that performing these operations may cause working data to become corrupted. Be sure to disconnect the computer from the network before performing the following operations.
 - Press the Ctrl+Alt+Delete keys and click (Shut down) in the lower right corner of the computer screen.
 - o Press and hold the power button for more than four seconds.
 - Unplug the AC adapter and remove the battery pack from your VAIO computer.

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Why does my VAIO computer automatically turn off?

When the battery pack is running out of power, your VAIO computer automatically enters
Hibernate mode and eventually turns off.
 Connect the AC adapter to the computer or charge the battery pack.

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What should I do if my VAIO computer does not enter Hibernate mode?

 If the utility program, such as a printer utility program, is running, exit the program or temporarily disable it.
 If the problem persists, click Change advanced power settings and check if

Allow hybrid sleep under Sleep is set to Off. If it is set to On, change it to Off and

• Your VAIO computer may not enter Hibernate mode if you execute a task on the computer before the computer completely enters Hibernate mode.

then click **OK**. [Details]

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What should I do if my VAIO computer does not enter Sleep mode?

- If the utility program, such as a printer utility program, is running, exit the program or temporarily disable it.
- Depending on the type of your screen saver, your VAIO computer may not enter Sleep mode while the screen saver is activated.
- Your VAIO computer may not enter Sleep mode if you execute a task on the computer before completely entering Sleep mode.

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Why can't I use the touch pad?

- The touch pad is disabled.
 - Press the Fn+F1 keys to enable the touch pad. [Details]
 Alternatively, you can click (Start), All Programs, and VAIO Control
 Center, and then enable the touch pad in the VAIO Control Center window.
 - o Disconnect a mouse from your VAIO computer, if it is connected.

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How do I disable the touch pad?

Press the Fn+F1 keys to disable the touch pad. [Details]
 Alternatively, you can change the touch pad settings to disable the touch pad in the VAIO Control Center window. Click (Start), All Programs, and VAIO Control Center to display the window.

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How do I avoid unintentional clicks caused by a light touch on the touch pad?

• Disable the tapping function. [Details]

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Why can't I activate the Quick Web Access function?

You cannot activate the Quick Web Access function if Windows is running.
 If your VAIO computer is in Hibernate mode or Sleep mode, turn off the computer and activate the Quick Web Access function.

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What should I do if my VAIO computer becomes unstable (Windows starts)?

- Try the suggestions below:
 - Start VAIO Care to search for a solution. [Details]
 - Restore computer system files. [Details]
 Use the restore point that you created before your VAIO computer becomes unstable.
 - Uninstall software or a software driver if your VAIO computer has become unstable after you installed the software or the software driver.
 - Reinstall the preinstalled software or software drivers on your VAIO computer if such software or software drivers have not been working properly. [Details]
 - Restore your VAIO computer from a system image backup if you have created the backup. Refer to **Windows Help and Support** for more information.
- If the problem persists, follow the instructions in Recovering from the Recovery Area to recover your VAIO computer. [Details]
 - If you have not yet created Recovery Media, create the Recovery Media. [Details]
 - Be sure to make a backup copy of your valuable data before recovering your VAIO computer. Refer to Windows Help and Support for more information.

Note

 Recovering your VAIO computer will delete all the data on the built-in storage device.

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What should I do if my VAIO computer becomes unstable (Windows does not start)?

- Try the suggestions below:
 - Restore computer system files. [Details]
 Use the restore point that you created before your VAIO computer becomes unstable.
 - Restore your VAIO computer from a system image backup if you have created the backup. Refer to Windows Help and Support for more information.
 Any file you have created or changed after you created the system image backup will not be restored. You need to back up such a file with VAIO Care Rescue. [Details]
- Use VAIO Hardware Diagnostics to identify problems on your VAIO computer
 - With the software, you can check if the computer hardware (a CPU, a memory module, and a built-in storage device) needs to be replaced. To start VAIO Hardware Diagnostics, click Tools and VAIO Hardware Diagnostics in VAIO Care Rescue.
- Follow the instructions in Recovering from the Recovery Area to recover your VAIO computer. [Details]
 - If you have not backed up your data, be sure to make a backup copy of your valuable data using VAIO Care Rescue before recovering your VAIO computer. [Details]
 If you have a backup created with the Windows backup feature before your VAIO computer becomes unstable, but you have created or changed the file after that, back up such a file with VAIO Care Rescue.

Note

 Recovering your VAIO computer will delete all the data on the built-in storage device.

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What should I do if I cannot complete the recovery process?

- Disconnect all unnecessary external devices from your VAIO computer.
- Try the suggestions below:
 - Check the condition of Recovery Media. If you are using optical discs, check the discs for dirt or damage. If the discs are not clean, clean them and try recovering your VAIO computer again.
 - If you cannot recover your VAIO computer from the recovery area, restart the computer and recover the computer from the recovery area again, or use Recovery Media.
 - If you cannot recover your VAIO computer using a USB flash drive, connect the drive to another USB port on the computer and try recovering the computer again.
- If the problem persists, visit the VAIO online support website for further assistance.

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What should I do if I cannot create Recovery Media?

- Try the suggestions below:
 - Restart your VAIO computer. And then, try to create Recovery Media again.
 - Download and install the latest updates using VAIO Update.
 - If you use an external DVD drive that comes with an AC adapter, plug the AC adapter into a power source.
- Try other reliable media.
- If the problem persists, visit the VAIO online support website for further assistance.

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How do I create Recovery Media?

• You can create Recovery Media using VAIO Care. [Details]

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What should I do if I cannot recover my VAIO computer from the recovery area?

- Recover your VAIO computer from Recovery Media if you have used software to modify
 the recovery area, installed a different operating system from the preinstalled one, or
 formatted the built-in storage device without using VAIO Care Rescue.
- If the problem persists, visit the VAIO online support website for further assistance.

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How can I restore my VAIO computer system to its factory default settings?

• There are two ways to recover your VAIO computer system: from Recovery Media [Details] and from the recovery area [Details].

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How can I reinstall the original software and drivers?

You can restore the preinstalled software and drivers using VAIO Care. To restore
them, start VAIO Care [Details] and then click Recovery & restore, Recovery,
and Reinstall Applications and Drivers.
 Refer to the help file included with VAIO Care for more information.