

SAMSUNG

User Manual

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Getting started

About this manual

- This user manual is specially designed to detail the computer's functions and features.
 - The user manual supplied with the computer may vary depending on the model.
 - Please read this manual before using the computer to ensure safe and proper use.
 - Optional accessories, some devices, and software referred to in this manual may not be provided or may not be subject to upgrades. Note that the computer environment referred in the user manual may not be the same as your environment.
 - Descriptions are based on the computer's default settings and the Windows 7 operating system. Available features and additional services may vary depending on the computer or operating system.
- This user manual describes procedures for using the keyboard, mouse and touch screen. Instructions for using the touch screen are for models with the touch screen feature.
 - Images and screenshots are those of the representative model of the series and may differ in appearance from the actual product.
 - Content may differ from the final product and is subject to change without prior notice. For the latest version of the manual, refer to the Samsung website, www.samsung.com.

Instructional icons and expressions



Warning: situations that could cause injury to yourself or others



Caution: situations that could cause damage to the computer or other equipment



Note: notes, usage tips, or additional information



The path you should follow to carry out an instruction. For example, “select **Settings** → **Devices**” indicates that you should select **Settings** and then **Devices**.

Select Click the mouse or tap the touchpad or touch screen.

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As an ENERGY STAR® Partner, Samsung has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



- The ENERGY STAR Program has reduced greenhouse gas emissions and saved energy through voluntary labeling.
- Power management setting of this product have been enabled by default, and have various timing settings from 1 minute to 5 hours.
- The product can wake with a button press on the chassis from sleep mode.

Data precautions

Samsung Electronics shall not be liable for any data loss. Please take care to avoid losing any important data and back up your data to prevent any such data loss.

Operating system and software support

If you change the product's factory OS (Operating System) to another OS or if you install software which is not supported by the product's original factory OS, you will not receive any technical support, product exchange or refund, and a fee will be charged when requesting a service.

Please use your computer with the original factory OS. If you install an OS other than the factory OS, data may be deleted or the computer may not start.

Recommended screen resolutions

It is recommended to set the resolution of your display based on standard Windows settings.

If you set a high resolution, such as QHD+ (3200x1800), it may not correctly display some applications.

Product capacity representation

Storage capacity representation

The capacity of the storage device (HDD, SSD) of the manufacturer is calculated assuming that 1 KB = 1,000 Bytes.

However, the operating system (Windows) calculates the storage device capacity assuming that 1 KB = 1,024 Bytes. Therefore, the available capacity of the HDD in Windows is smaller than the actual capacity due to the difference in capacity calculation. For example, for an 80 GB HDD, Windows calculates the capacity as 74.5 GB, $(80 \times 1,000 \times 1,000 \times 1,000) \text{ Bytes} / (1,024 \times 1,024 \times 1,024) \text{ Bytes} = 74.505 \text{ GB}$.

In addition, the capacity representation in Windows may be even smaller because some programs, such as Samsung Recovery Solution, may reside in a hidden area of the HDD.

Memory capacity representation

The available memory capacity in Windows is less than the actual capacity of memory. This is because some memory is required for regular system operations.

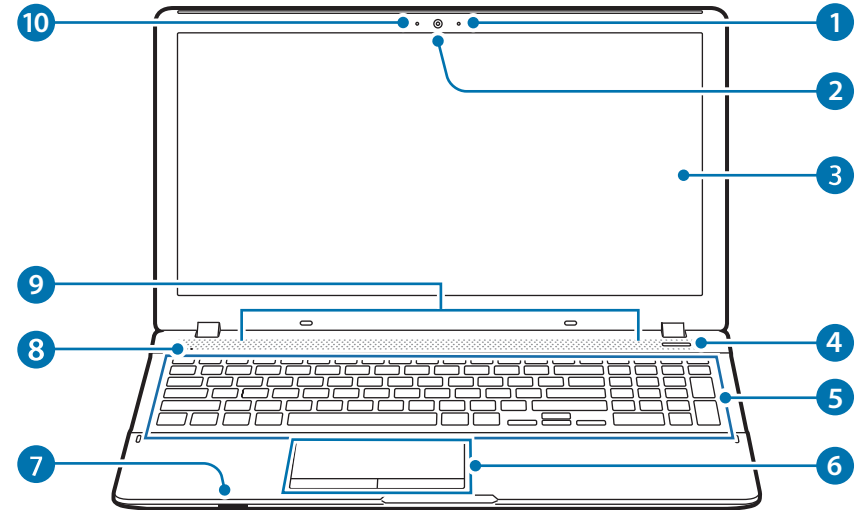
For example, for 1 GB (= 1,024 MB) memory installed, Windows may report the capacity as 1,022 MB or less.


Layout




- Features or options may differ depending on the model.
- The items marked as optional may not be provided or may be provided in different locations.
- Since some space on the HDD/SSD is reserved for system recovery and operations, the available space on the HDD/SSD may be less than the actual capacity.

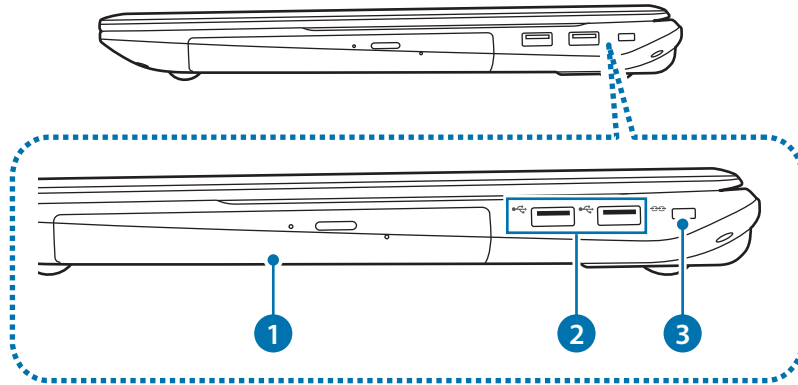
Front view





Number/Name	Description
1 Microphone (optional)	<ul style="list-style-type: none"> You can use the built-in microphone.
2 Camera (optional)	<ul style="list-style-type: none"> Using this camera, you can take still pictures and record video.
3 LCD	<ul style="list-style-type: none"> The screen's images are displayed here.
4 Power button 	<ul style="list-style-type: none"> Turns the computer on and off.
5 Keyboard	<ul style="list-style-type: none"> Enter text or control computer functions.
6 Touchpad/ Touchpad buttons	<ul style="list-style-type: none"> Moves the cursor and selects options. Functions as a mouse.

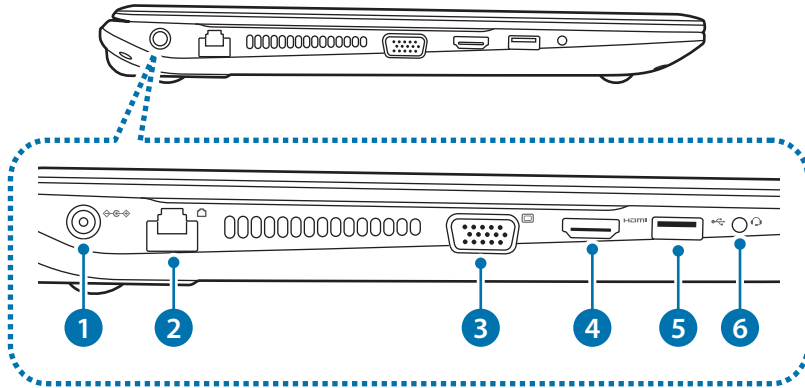
Number/Name	Description
7 Memory card slot 	<ul style="list-style-type: none"> Insert a memory card into the slot.
8 Operating status LED	<ul style="list-style-type: none"> Shows the operating status of the computer. <ul style="list-style-type: none"> Red: Charging Green: Fully charged Blue: Turned on
9 Speaker	<ul style="list-style-type: none"> Sound is emitted from the speakers.
10 Camera indicator light (optional)	<ul style="list-style-type: none"> This indicates the camera operating status.










Right view



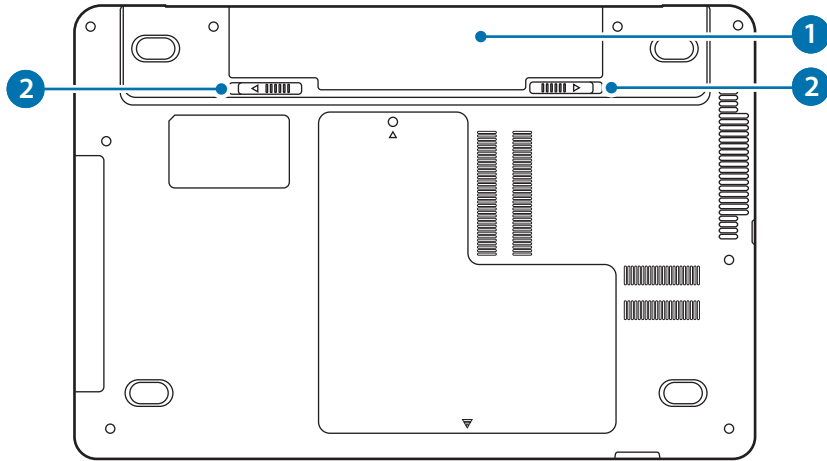
Number/Name	Description
1 CD/DVD drive (ODD) (optional)	<ul style="list-style-type: none">• Reads CDs or DVDs.• Since the CD/DVD drive is optional, the drive may vary by model.
2 USB 2.0 port 	<ul style="list-style-type: none">• Connect various peripheral devices, such as a mouse, camera, or keyboard.
3 Security slot 	<ul style="list-style-type: none">• Secure the computer by connecting an optional lock and cable to it.


Left view



Number/Name	Description
1 DC jack 	<ul style="list-style-type: none"> This jack connects to the AC adapter to supply power to the computer.
2 Wired LAN port 	<ul style="list-style-type: none"> Connect the Ethernet cable to this port.
3 External monitor port 	<ul style="list-style-type: none"> Connect a monitor, TV, or projector to your computer using a 15 pin D-SUB interface.
4 HDMI port HDMI	<ul style="list-style-type: none"> Used to connect an HDMI cable to an external device.
5 USB 3.0 port  or chargeable USB 3.0 port  (optional)	<ul style="list-style-type: none"> USB ports to which you can connect USB devices as well as a chargeable USB port are provided. The USB port can be used to connect and charge a USB device. <p> The port can be distinguished by the figure ( or ) printed on the port of the product.</p>
6 Earpiece/Headset jack 	<ul style="list-style-type: none"> Connect an earpiece or a headset to the computer to listen to audio.

Bottom view



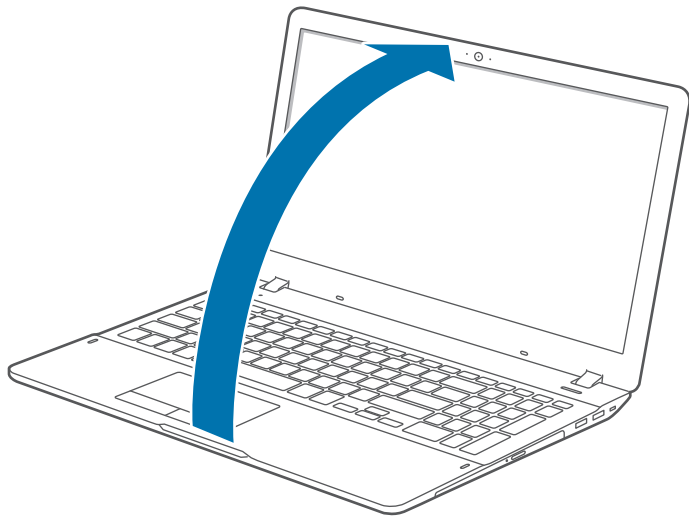
Number/Name	Description
1 Battery	<ul style="list-style-type: none">• A rechargeable Lithium-ion battery that supplies power to the computer.
2 Battery latches 	<ul style="list-style-type: none">• The latches used to secure and release the battery.

Turning the computer on and off

 Fully charge the battery using the AC adapter before using the computer **for the first time**.

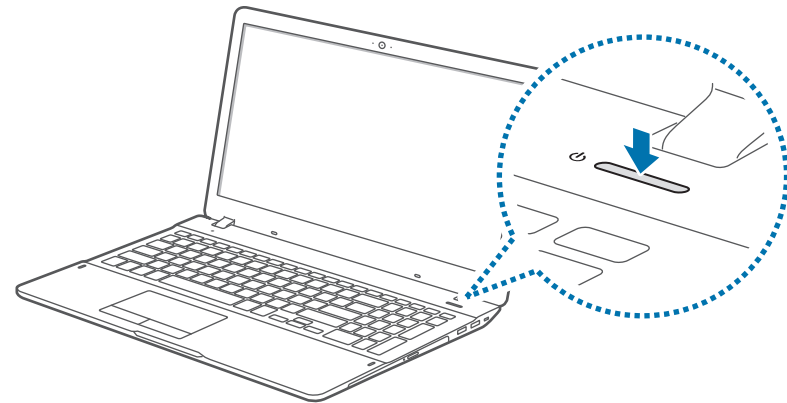
Turning the computer on


- 1 Before turning on the computer, check that the battery is charged and charge it if necessary.
- 2 Open the LCD panel.



- 3 The computer turns on automatically when the LCD panel is opened.

If the computer does not turn on automatically, press the Power button.



 Set the device not to automatically turn on the computer when the LCD panel is opened.

1. Select the Start button (🌐) → **All Programs** → **Samsung** → **Easy Settings**.
2. Select **Boot Management** and deselect **Auto Booting** in the **Lid Open Action** section.

About Windows Activation

When you turn the computer on for the first time, the Windows activation screen appears.

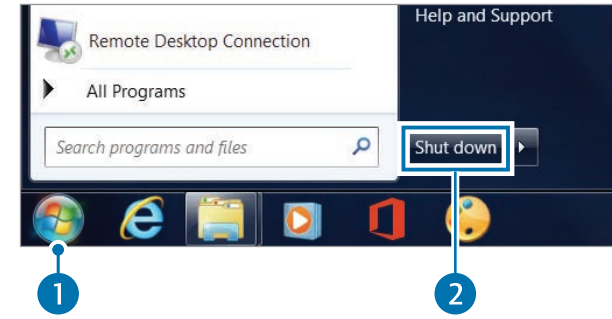
Follow the activation procedures according to the instructions on the screen to use the computer.

The computer's date and time may be incorrect when you turn it on for the first time. They may also be incorrect if the battery has been fully discharged or removed. To set the date and time, go to the desktop taskbar and right-click the clock area. Then, select **Adjust date/time** and set the current date and time.

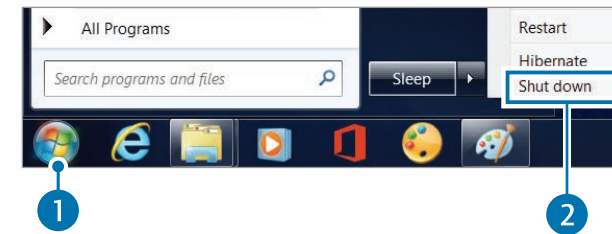
Turning the computer off

1 Select the Start button (🌐).

2 Select **Shut down**.



or



- Save all data before turning off the computer.
- Since the procedures to turn the computer off may differ depending on the installed operating system, turn the computer off according to the procedures for the purchased operating system.
- If **Easy Settings** is installed, the system shutdown location may differ.

Basics

Keyboard

Enter text or access computer functions with the keyboard.

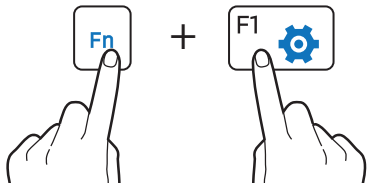


- Images and available features may differ depending on the model and operating system.
- The keyboard layout may differ depending on the country.

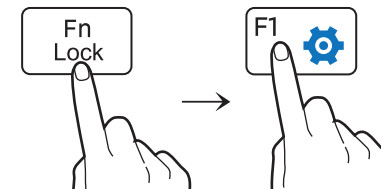
Using hot keys

To use keyboard hot keys, do one of the following:









- Press and hold the **Fn** key and press a hot key.








- Press the **Fn Lock** key and then press a hot key.



Hot key functions

Key/Icon	Description
F1 	• Easy Settings: Launch the Easy Settings application.
F2 	• Screen brightness control: Adjust the brightness of the display.
F3 	
F4 	• LCD/External monitor: Switch between the LCD and an external display device when an external display device is connected to the computer.
F5 	• Touchpad: Turn the touchpad function on or off.
F6 	• Mute: Mute or unmute the audio.
F7 	• Volume Control: Adjust the volume level.
F8 	

Key/Icon	Description
F9 	• Turn the LCD on or off.
F10 	• Hide a selected window by decreasing its brightness and opacity.
F11 	• Turn off the camera and sound recorder to prevent unauthorized access and illegal recording.
F12 	• Wi-Fi network: Turn the Wi-Fi feature on or off.
Fn + 	• Right-click: Perform the right-click function.



If the hot keys do not work properly, install the **Easy Settings** application.

Touchpad

Use the touchpad to move the cursor or select an item. The left and right buttons of the touchpad act the same as the left and right buttons of a mouse.

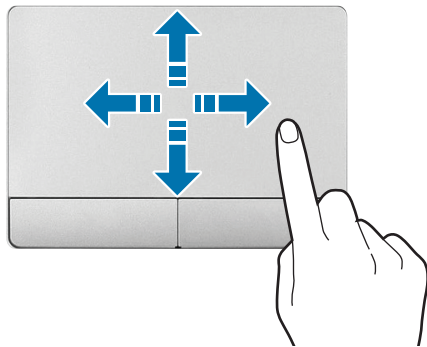


- Use the touchpad only with fingers. The touchpad will not recognize actions of other objects.
- Images and the touchpad layout may differ depending on the model.

Basic touchpad functions

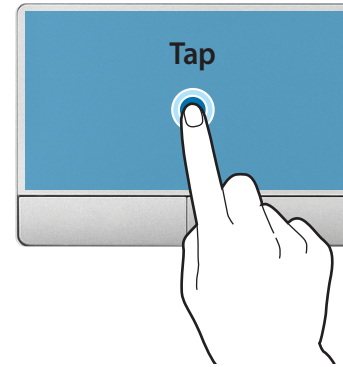
Moving

To move the cursor, move a finger on the touchpad.

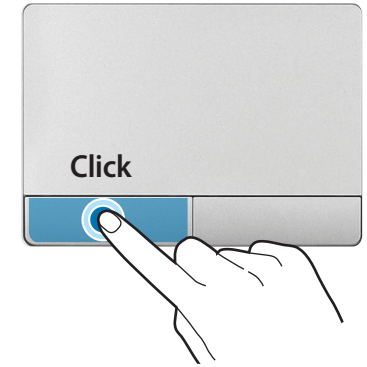


Clicking

Tap the touchpad or press the left touchpad button.

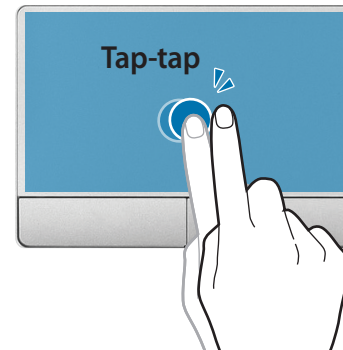


or



Double-clicking

Double-tap the touchpad or press the left touchpad button twice.



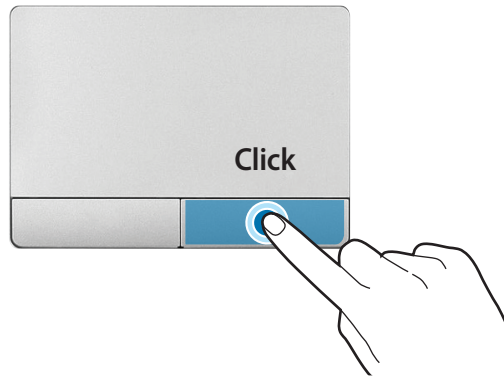
or



Right-clicking

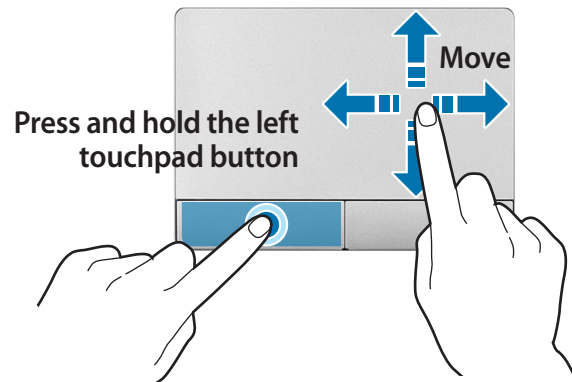
This function enables right-clicking.

To right-click an item, press the right touchpad button.



Dragging

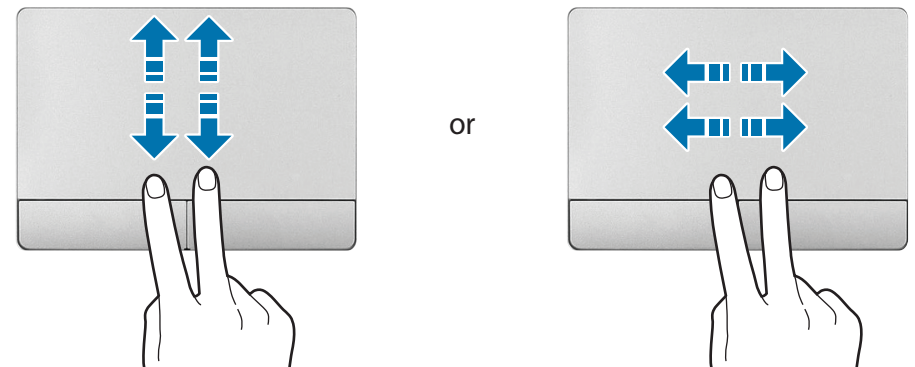
To move an icon or an app tile to a desired location, press and hold it and then drag it to the target position with the left touchpad button pressed.



Gesture functions

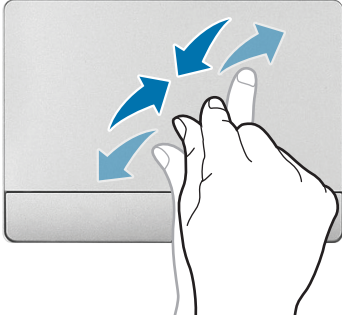
Swiping

To scroll up, down, left or right to a desired location, swipe with two fingers on the touchpad.



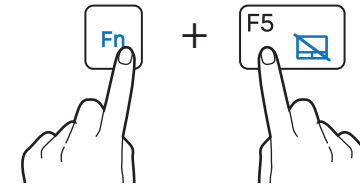
Pinching

To zoom in, spread two fingers apart while viewing a website, map, or image. Pinch to zoom out.



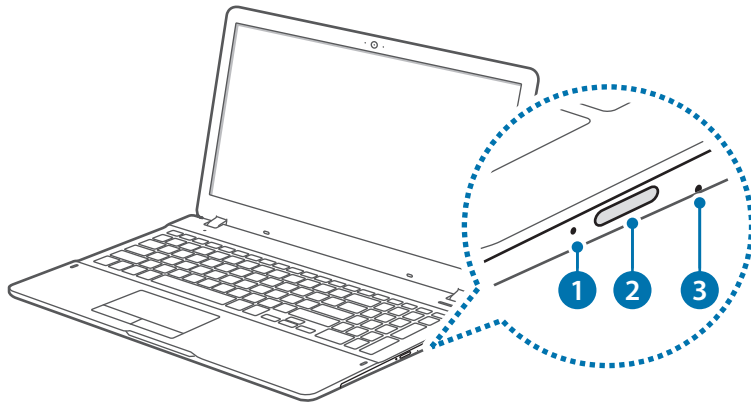
Touchpad lock

Press and hold the **Fn** key and press the **F5** key to lock the touchpad.



CD/DVD drive (ODD) (optional)

- 1 Press the Eject button on the optical disc drive.



Number	Description
1	• Operating status LED
2	• Eject button
3	• Eject pinhole

- 2 When the CD tray ejects, insert a CD or DVD.

- 3 Push the CD tray inward until it clicks into place.

The operating status LED of the CD/DVD drive will turn on.



- Do not insert warped, cracked, or heavily scratched discs into the drive. Damaged discs may spin too quickly and can damage the drive.
- Do not eject discs while the operating status LED is on.



- The appearance of your external drive may differ in appearance from the images in this manual.
- If the drive will not open when the power is off, insert a paper clip (—) into the eject pinhole to open the tray manually.
- When cleaning a CD or DVD, wipe it with a soft cloth from the inside edge towards the outside edge.
- Reading and writing speeds may differ depending on the condition of the disc and the media type.
- Do not insert a CD or DVD that is not circular.

Memory card

Use a memory card to transfer data to other devices, such as digital cameras or MP3 players. Memory cards are sold separately. Purchase a memory card with the necessary capacity for the requirement.

This computer supports the following types of memory cards.

Abbreviation	Description
SD	• Secure Digital
mini SD	• mini Secure Digital
micro SD	• micro Secure Digital
SDHC	• Secure Digital High Capacity
mini SDHC	• mini Secure Digital High Capacity
micro SDHC	• micro Secure Digital High Capacity
SDXC	• Secure Digital eXtended Capacity
micro SDXC	• micro Secure Digital eXtended Capacity

To use a mini or micro card, insert the card into an adapter before inserting it into the memory card slot.



- Some memory cards may not be fully compatible with the computer. Using an incompatible card may damage the computer or the memory card, or corrupt the data stored in it.
- Use caution to insert the memory card in the indicated direction.
- Store the card separately to prevent losing the card when moving the computer.
- Memory card speeds vary.

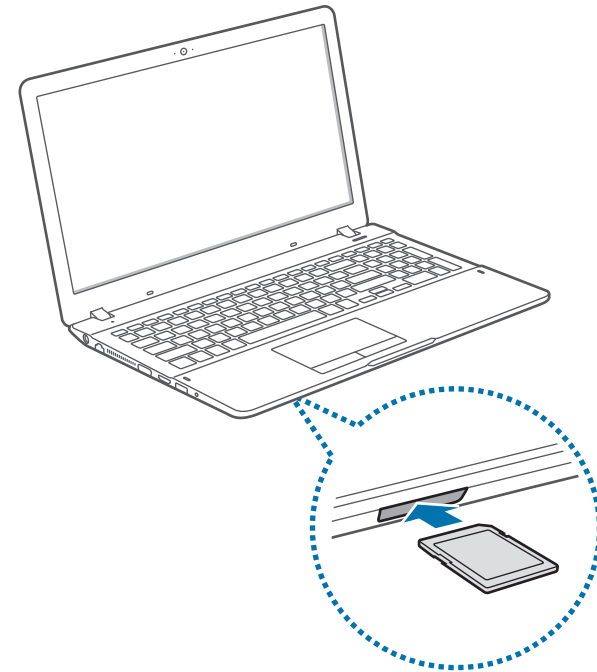
Inserting a memory card

- 1 If a dummy card or a memory card adapter is inserted in the memory card slot, remove it.
- 2 Insert a memory card into the memory card slot in the indicated direction.

Use a memory card adapter to insert a micro memory card into the memory card slot. For mini memory cards, use a mini card adapter.



A memory card adapter is an optional item and may not be provided with some models.



- 3 Select the pop-up message to open the memory card folder.
If a pop-up message appears, select the corresponding window → **Continue without scanning**.
- 4 Select **Open folder to view files**.
- 5 Save, move, or delete data on the memory card.
The memory card folder opens only on the desktop.

Removing a memory card

Grasp the end of the card and pull it out of the slot.

Formatting a memory card

Format the memory card to remove all data or before using it for the first time.



Formatting a memory card deletes all data saved on the card. If necessary, back up important data before formatting the card.

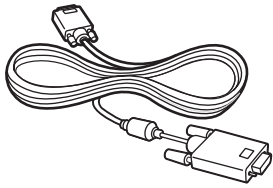
- 1 Select the Start button (🌐) → **Computer**.
- 2 Right-click the memory card drive, and then select **Format**.
- 3 Select **Start**.



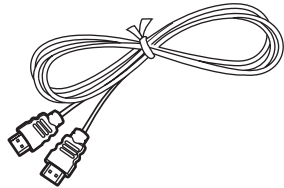
- To use a memory card to exchange data with a digital device, such as a digital camera, formatting the data with the digital device is recommended.
- When trying to use a formatted memory card in another digital device, format the memory card again in the device.
- Data protected by copyright laws cannot be reviewed or modified.
- Inserting and removing a memory card repeatedly may damage the memory card.
- Secure Digital Input Output (SDIO) is not supported.
- If the write-protect tab is in the locked position, you cannot format, write, or delete data on the card.

External display

Connecting the computer to an external display device can be useful for presentations or when watching a movie. The cables required to connect an external display are sold separately. The computer supports either VGA or HDMI cables.



VGA cable



HDMI cable



- Check the available ports on the display device to ensure that it is compatible with the computer.
- If both types of ports are available, the HDMI port is recommended for better audio and video quality.
- An external display is not supported when using DOS.

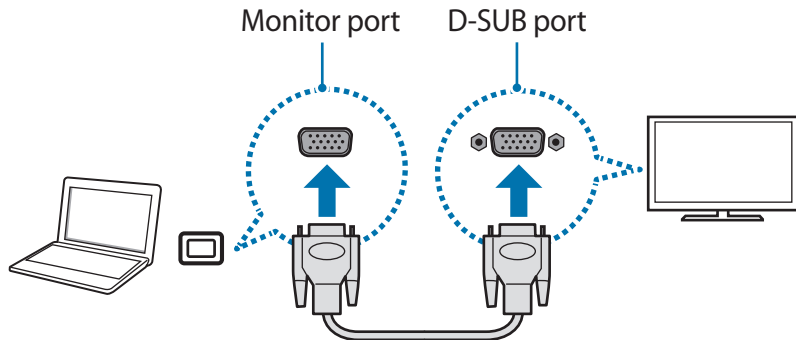
Connecting to a display

- 1 Connect the VGA cable or HDMI cable to the corresponding port of the computer.

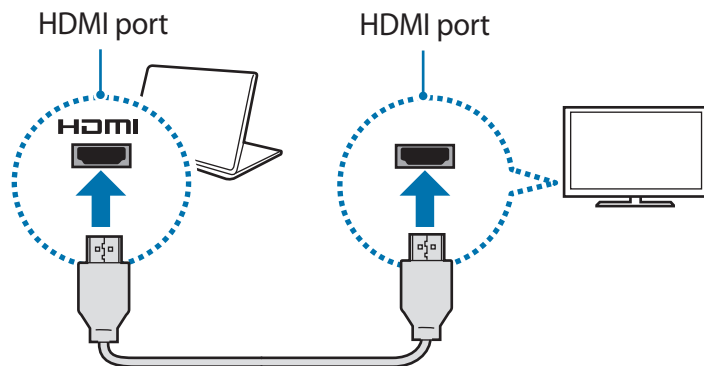
2 Connect the other end of the cable to the D-SUB port or HDMI port of the external display.

If the display has several HDMI ports, connect the cable to the DVI IN port.

<When using a VGA cable>



<When using a HDMI cable>



3 Connect the power cord to the external display.

4 Turn on the display and change its display mode to one that supports an external input.

5 Press and hold  and press . The display mode selection window will appear.

While pressing and holding , press  to select a mode.

- **Duplicate:** Show the screen on both the computer and the external display.
- **Extend:** Extend the screen to the external display.
- **Computer only:** Show the screen on the computer monitor only.
- **Projector only:** Show the screen on the external display only.

Wired LAN

To access the Internet at home, set up an account with an Internet service provider (ISP). To purchase Internet service and a modem, contact a local ISP.

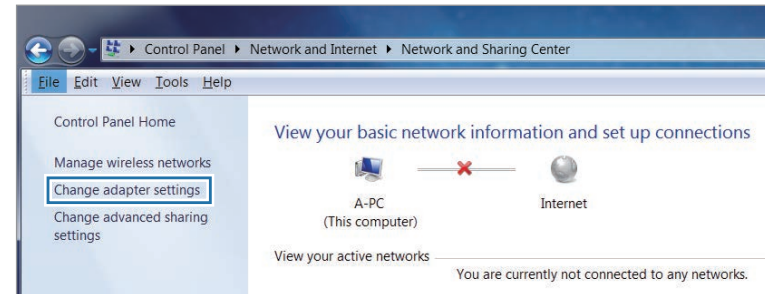


- Some features or procedures may differ depending on the model.
- These descriptions are written for Windows 7, so some figures and descriptions may differ from your operating system. Since the procedures for other Windows operating systems are similar, use the computer referring to these descriptions.

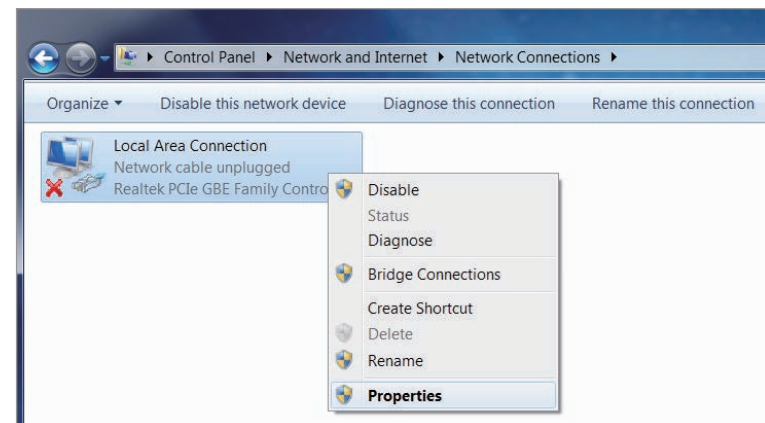
Wired LAN

- 1 Connect a LAN cable to the LAN port on the computer.

- 2 Select Start button (🌐) → **Control Panel** → **Network and Internet** → **Network and Sharing Center** → **Change adapter settings**.

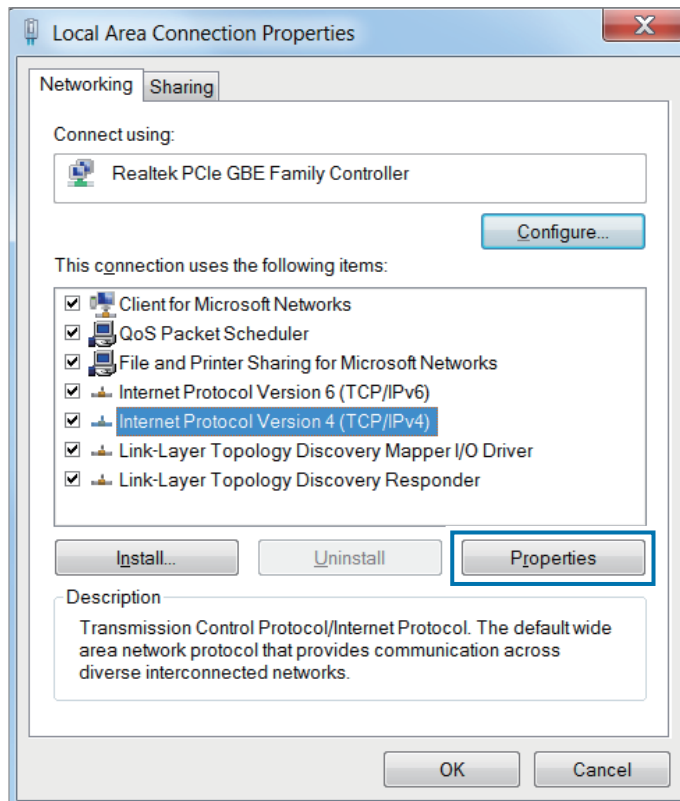


- 3 Right-click **Local Area Connection** and select **Properties**.



4 Select **Internet Protocol Version 4(TCP/IPv4)** from the list of Network Components and select **Properties**.

- The Network Component name may differ depending on the operating system.



- To add a network item such as a client, service, or protocol, select **Install...** under the list of network items.

5 Configure the IP settings.

- When using DHCP, select **Obtain an IP address automatically**.
- When not using DHCP, contact the network administrator for the IP address. To use a static IP address, select **Use the following IP address** and set the IP address manually.

6 Select **OK** to save the settings.

Wake on LAN (WOL) feature

Activate the system remotely from sleep mode when a signal, such as a magic packet command, is received via a wired LAN.

- 1 Select the Start button (🌐) → **Control Panel** → **Network and Internet** → **Network and Sharing Center** → **Change adapter settings**.
- 2 Right-click **Local Area Connection** and select **Properties**.
- 3 Select **Configure...** → **Power Management** → **Allow this device to wake the computer** → **OK**.

- 4 Restart the computer.
 - If the computer wakes up from sleep mode inadvertently, disable the Wake on LAN feature.
 - If you turn off the computer without disabling the Wake on LAN feature while connected to a network, the LAN LED may not turn off.
 - The Wake on LAN feature may not work when simultaneously connected to a wired and wireless LAN. To use the Wake on LAN feature, set the Wireless LAN to **Disable**.
 - The Wake on LAN feature may not work while using the Hybrid power saving feature. To disable the Hybrid power saving feature, select **Control Panel** → **Power Options**.



- Using the Wake on LAN feature with a Ping command is not supported on Windows 7.
- When connected to a 100 Mbps/1 Gbps wired LAN, a message appears informing the user of connection to a 10 Mbps/100 Mbps wired LAN when the computer wakes from sleep mode. This happens because restoring the network takes about 3 seconds. When the network is restored, the computer will be connected to the 100 Mbps/1 Gbps LAN.

It may take about 20 seconds for the connection to be established when connecting a LAN cable.

- When the system is running on battery power, it may take a few seconds for the connection to be established when connecting a LAN cable. This is the result of power saving features designed to reduce battery consumption.
- When the system is running on battery power, the speed of a wired LAN is decreased automatically to reduce battery consumption. In this case, a 1 Gbps/100 Mbps LAN would function at the speed of a 100 Mbps/10 Mbps connection.

Wireless LAN


Connect the computer to a wireless network to use the Internet.

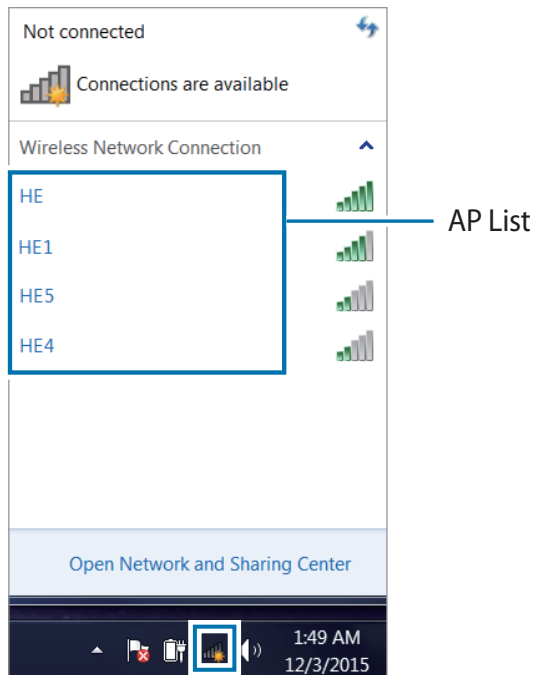


The descriptions below are for computer models with a Wireless LAN card or device. A Wireless LAN device is optional. The pictures in this manual may differ from the actual product depending on the wireless LAN device model.

About Access Point (AP)

An Access Point (AP) is a network device that bridges wired and wireless LANs and corresponds to a wireless hub in a wired network. Multiple devices can be connected to an AP.

- 1 On the taskbar, select . A list of available APs will appear. When you select an AP, the **Connect** option will appear.



- 2 Select **Connect**. If the AP is password protected, enter the password and then select **Connect**.



If you require a network password, contact the system administrator.

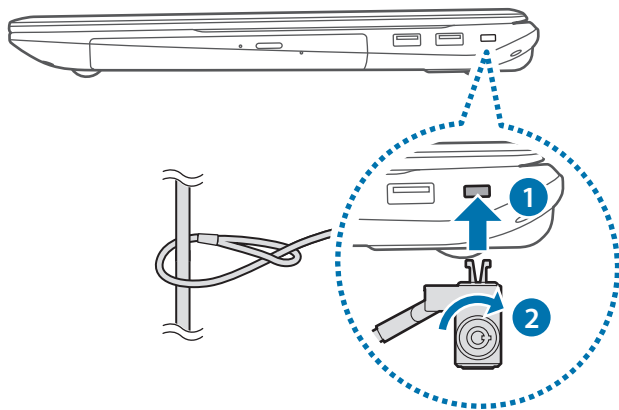



- 3 When the AP connection complete window appears, select **Close**.

Using the security slot

You can secure the computer by connecting a lock and cable to the security slot.

Tie the lock and cable to a fixed object and install the other end of the cable to the security slot.




 To use this feature, you must purchase a lock and cable (sold separately). Your product may differ from the one shown above. For more information, refer to your lock's manual.

Easy Settings (optional)

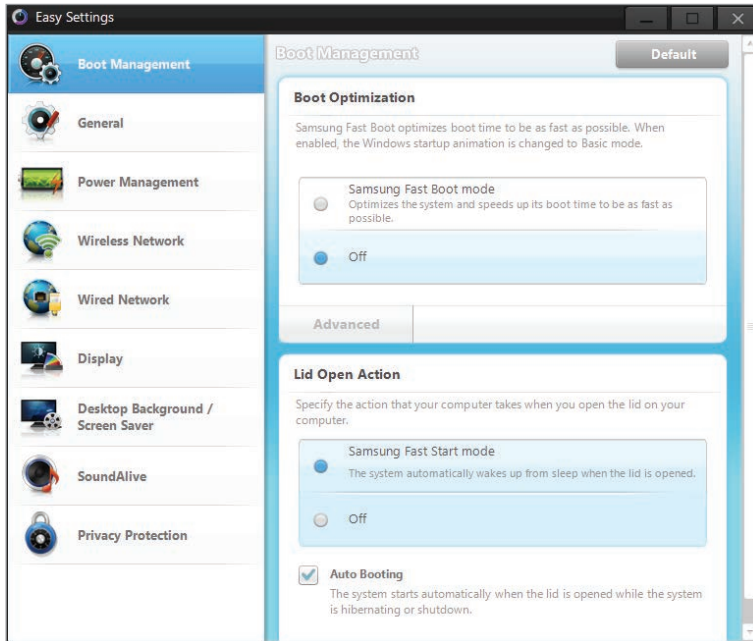
Easy Settings, a Samsung-integrated settings application, offers various settings functions.



- This description is for models that support this function and run Windows 7.
- Images and features may differ depending on the model and the application version.

1 Select the Start button () → **All Programs** → **Samsung** → **Easy Settings**.

2 Select an option to configure the corresponding function.



Menu	Description
Boot Management (optional)	<ul style="list-style-type: none"> • Set Boot Optimization and Lid Open Action settings.
General	<ul style="list-style-type: none"> • Set Silent Mode and User Account Control settings.
Power Management	<ul style="list-style-type: none"> • Set Power Plan (High-performance, Power-saving, or Samsung optimal mode), Eco Mode, the power-saving, the display, and Battery Life Extender + settings.
Wireless Network	<ul style="list-style-type: none"> • Set whether to use the Wi-Fi or mobile AP features.
Wired Network	<ul style="list-style-type: none"> • Set automatic or fixed IP settings.
Display	<ul style="list-style-type: none"> • Set the screen brightness and color.
Desktop Background / Screen Saver	<ul style="list-style-type: none"> • Set the desktop background and the screen saver settings.
SoundAlive	<ul style="list-style-type: none"> • Set sound settings.
Privacy Protection	<ul style="list-style-type: none"> • Set security functions and settings.

Samsung Update

Install and update Samsung applications and drivers on the computer easily and conveniently. This application enables the user to search for or download the BIOS, drivers, and applications over the Internet. Keep the computer performing better and more stably with **Samsung Update**.



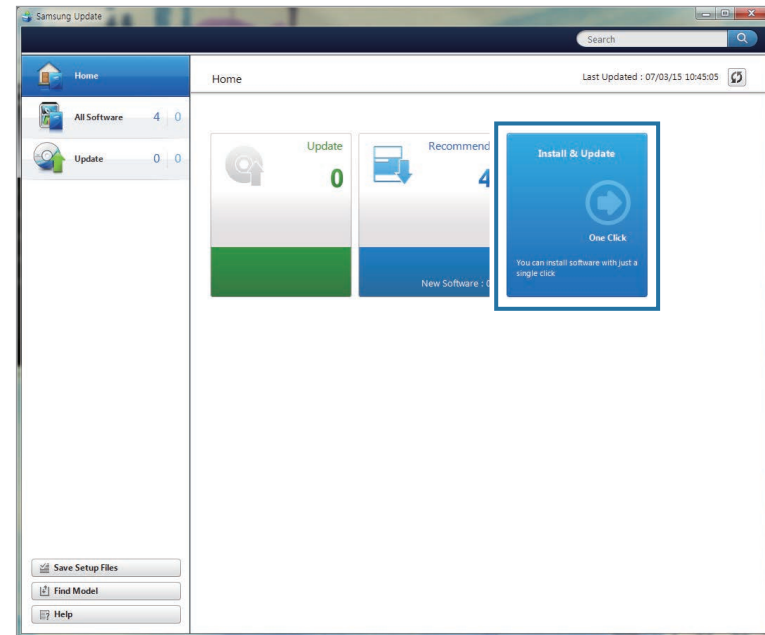
- To check for available updates, the computer must be connected to the Internet.
- Only applications that have been installed with this application can be updated.
- Images and features may differ depending on the model and the application version.

1 Select the Start button (🌐) → **All Programs** → **Samsung** → **Samsung Update**.

2 Read and agree to the User Agreement.

This step appears only when the application runs for the first time.

3 Select **Install & Update**.



4 Select items to update and select **OK**.

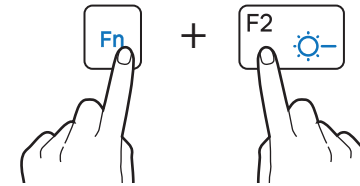
Settings & Upgrade

LCD brightness

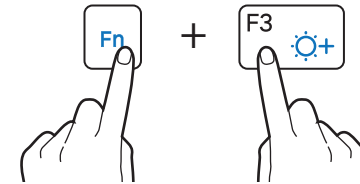
Adjust the LCD brightness to reduce eye strain and save power.

Controlling brightness using the keyboard

- To dim the LCD screen, press and hold the **Fn** key and press the **F2** key.



- To brighten the LCD screen, press and hold the **Fn** key and press the **F3** key.

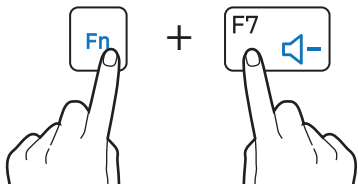


Volume

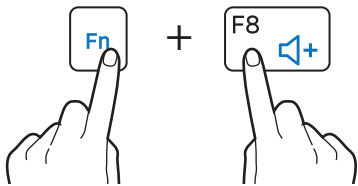
Adjust the system volume or sound volume when playing music or video.

Controlling volume using the keyboard

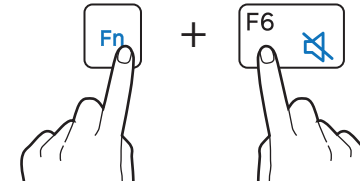
- To turn down the volume, press and hold the **Fn** key and press the **F7** key.




- To turn up the volume, press and hold the **Fn** key and press the **F8** key.

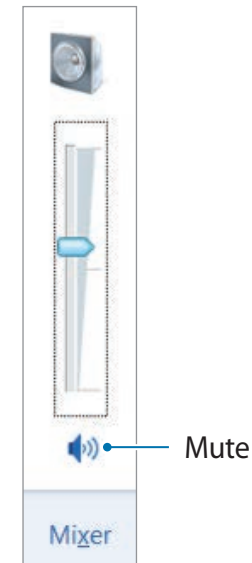


- To mute or unmute the volume, press and hold the **Fn** key and press the **F6** key.



Controlling volume using the taskbar

Select  on the taskbar. Drag the adjustment bar to the desired volume.



BIOS (Setup utility)

Define a boot password, change the boot priority, or configure the system's equipment-related settings.



- Incorrect settings may cause the system to malfunction or crash.
- The BIOS setup screens, menus, and items may appear differently depending on the model and BIOS version.
- BIOS setup functions are subject to upgrades.

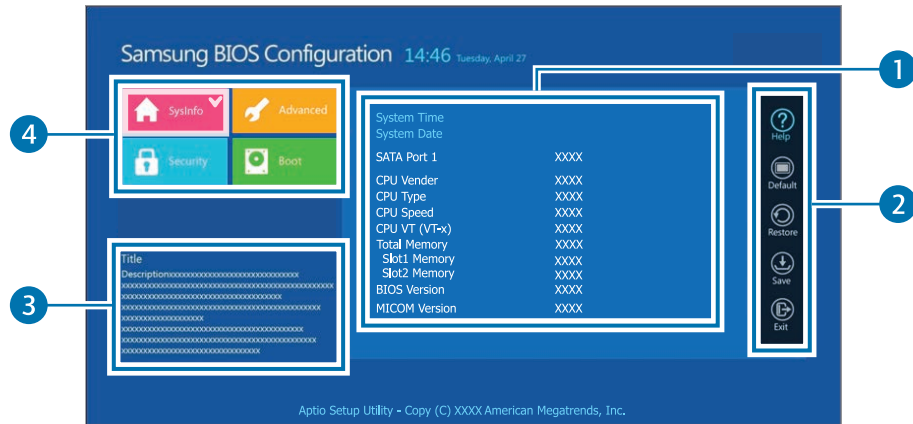
Entering the BIOS screen

- 1 Turn on the computer.
- 2 Press the **F2** key several times.
 - If the computer is password-protected, press the **F2** key several times before the password screen appears.
 - If the password screen or the Windows start screen appears, restart the computer and try again.

The BIOS screen

The BIOS setup screen appears as shown below.

You can change BIOS settings using the keyboard or mouse.



Number	Name
1	<ul style="list-style-type: none"> Setup items
2	<ul style="list-style-type: none"> Setup tools <ul style="list-style-type: none"> Help: View the help for BIOS set up. Default: Return to the default settings. Restore: Cancel changes. Save: Save settings. Exit: Exit BIOS setup.
3	<ul style="list-style-type: none"> Help
4	<ul style="list-style-type: none"> Setup menu <ul style="list-style-type: none"> SysInfo: View the basic specifications of the computer. Advanced: Configure the chipsets and additional functions. Security: Configure security functions. Boot: Configure peripherals and boot-related settings.



The BIOS setup screen appears only in English.

Boot password

Setting a password with the BIOS enhances protection against viruses and hacking attacks.



- Do not forget your password or expose it to others.
- If you forget the **Supervisor Password** or **HDD Password**, request assistance from the Samsung Service Center. In this case, a service fee will be charged.
- If you forget the **User Password**, disable the **Supervisor Password**, and the **User Password** is also automatically disabled.

Setting passwords

There are three password settings available: **Supervisor Password**, **User Password**, and **HDD Password**.

- **Supervisor Password** (low security level): This password is required when turning on the computer or entering the BIOS setup.
- **User Password** (low security level): This password is required to enter the BIOS setup. This password will be deactivated automatically if the **Supervisor Password** is disabled.
- **HDD Password** (high security level): This password is required to access the hard disk drive (HDD) from another computer. This password may not be supported, depending on the model.

Setting a boot password

- 1 Turn on the computer.
- 2 Before the Samsung logo appears, press the **F2** key several times.
- 3 Access the **Security** menu.
- 4 Select a password type (**Supervisor Password**, **User Password**, or **HDD Password**).


If you cannot select an item or the **HDD Password Frozen** message appears, turn off the computer and turn it on again. Then, press the **F2** key several times before the Samsung logo appears to enter the BIOS setup screen.

- 5 Enter a password and select **Ok**.
The password can be up to 20 characters.
- 6 Enter the password again to confirm it and select **Ok**.
- 7 Select **Save** → **Yes** to save and restart.



- To enable the **Password On Boot** option, set a **Supervisor Password** and enter the password when starting up the computer.
- To change the **HDD Password** after setting it, restart the computer.
- For some models, if the password entered message appears in the Setup Notice window, select **Ok** to complete the setup.

Removing a password

- 1 Turn on the computer.
 - 2 Before the Samsung logo appears, press the **F2** key several times.
 - 3 Access the **Security** menu.
 - 4 Select a password type (**Supervisor Password**, **User Password**, or **HDD Password**).
 - 5 Enter the current password and select **Ok**.
 - 6 Without entering any characters, select **Ok** → **Ok**.
-  For some models, to cancel the password, select **Cancel** in the Setup Notice window.

Boot priority

Change the boot priority from the BIOS setup.

- 1 Turn on the computer.
- 2 Before the Samsung logo appears, press the **F2** key several times.
- 3 Access the **Boot** menu.
- 4 Select **Boot Device Priority**.
- 5 Select an option menu to open the list.
- 6 Select an option.
- 7 Select **Save** → **Yes** to save and restart.
Select **Exit** → **Yes** to restart without saving the changes.

Battery

Fully charge the battery using the AC adapter before using the computer for the first time.



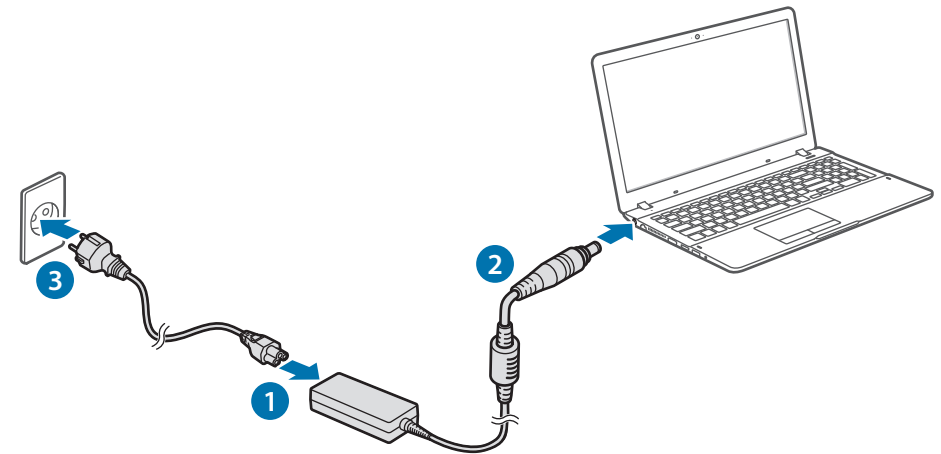
- Use only Samsung-approved AC adapters, batteries, and cables. Unapproved adapters or cables can cause the battery to explode or damage the computer.
- Incorrectly connecting the charger may cause serious damage to the computer.
- You can use the computer while it is charging, but the battery charging time may increase. If the battery temperature rises too much, the charging may stop as a safety measure.



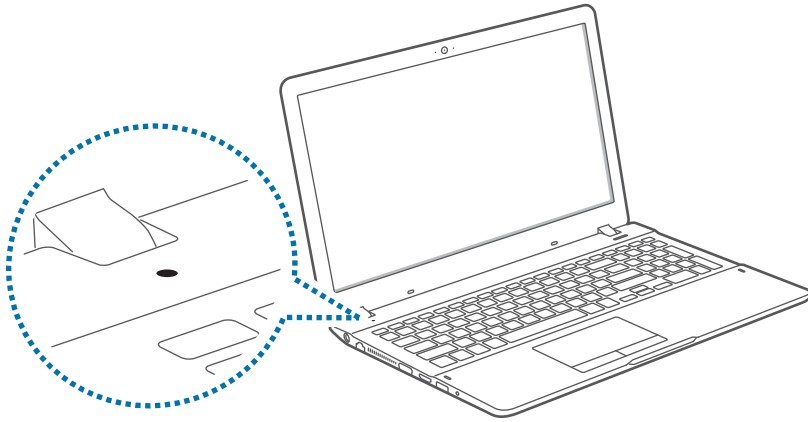
To restore the battery power after cutting it, connect the AC adapter.




Charging the battery

- 1 Connect the power cable to the AC adapter.
- 2 Connect the AC adapter to the DC jack of the computer.
- 3 Plug the power cable into an electric socket.




- 4 When the battery is fully charged, the operating status LED turns green. Disconnect the AC adapter from the computer.

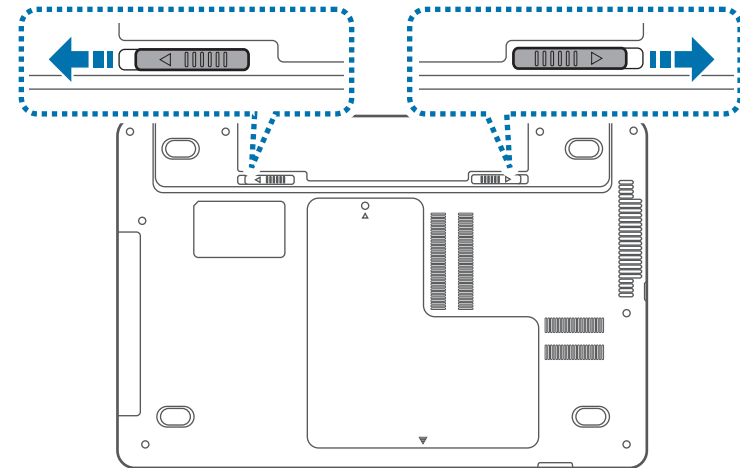


Operating status LED	Status
	• Red: Charging
	• Green: Fully charged
	• Blue: Turned on

- 5 Unplug it from the electric socket.

Installing/Removing the Battery

- 1 Shutdown the system, close the LCD panel and place the computer upside down on a flat surface.
- 2 Pull the two battery latches outward , then remove the battery.



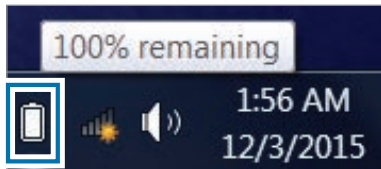
- 3 To reinstall the battery, slide the battery into the computer. The battery latches will automatically secure the battery to the computer.



Check if the battery latches have moved inward.

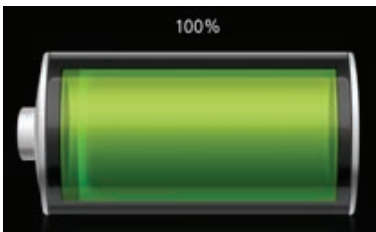
Battery status

Move the cursor over the battery icon on the taskbar to view the current battery charge.



Viewing the current battery charge when the computer is turned off

Connect or disconnect the AC adapter from the computer to view the current battery charge when the computer is turned off.



Battery usage time

Batteries are replacement items and over time the battery's capacity to hold a charge and its power level is reduced. If a battery can only hold its charge for half of the time that it could when new, it is recommended to purchase a new, replacement battery.

When not using the battery for extended periods, charge the battery to 30–40% of full charge before storing it. This extends battery life.

Troubleshooting

Samsung Recovery Solution

Samsung Recovery Solution is an application that enables restoring or backing up the hard disk drive for when a problem occurs with the computer.

If the computer fails to boot up, you can restore the computer by pressing the **F4** key in the booting screen.

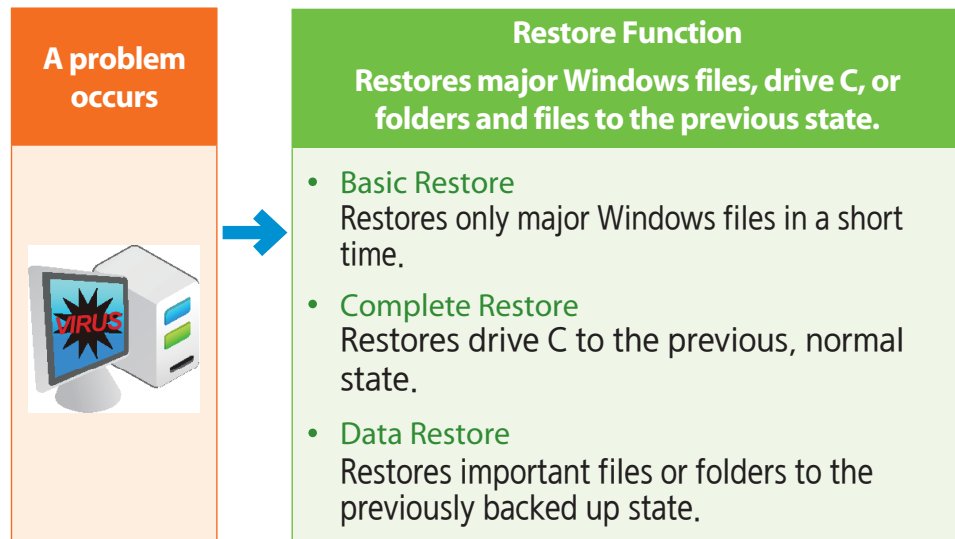


- The **Samsung Recovery Solution** application may not be provided or the application version may differ depending on models. Some functions may differ or may be unavailable depending on the version. Refer to the application's help information.
- The screen images in this document may differ from actual product.
- If your computer does not have an internal DVD, you need an external DVD connected to your computer to use the Backup Function or Restore Function using DVDs.
- When you launch the application for the first time, read and accept the Terms and Conditions when they display on the screen.

Samsung Recovery Solution

Backup/Restore Functions

Backup Function	
Backs up drive C or required folders and files.	
<ul style="list-style-type: none"> • Complete Backup Backs up drive C. 	<ul style="list-style-type: none"> • Data Backup Backs up important folders and files.



Restore Function

Not only can you use **Samsung Recovery Solution** when Windows is running, but also when you are unable to boot up into Windows.

Optional functions such as Initial State Image, Initial Status Backup, and Partitioning are only available in some models.

If the image of the initial state is saved on a DVD or removable storage device, connect the DVD drive or removable storage device to the computer before using the function.

Restoring the computer

1 When Windows is running

Select **Samsung Recovery Solution**.

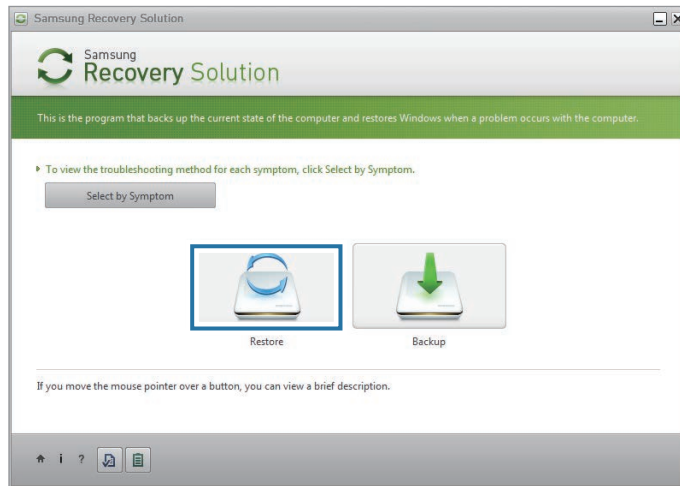
When Windows does not start

Turn the computer on and press the **F4** key when the boot screen (SAMSUNG) appears. After a moment, the computer boots up in restoration mode and the **Samsung Recovery Solution** screen appears.



For computers supporting the touch screen function, the touch screen function does not work during Restore Mode. In this case, please use the touchpad or mouse.

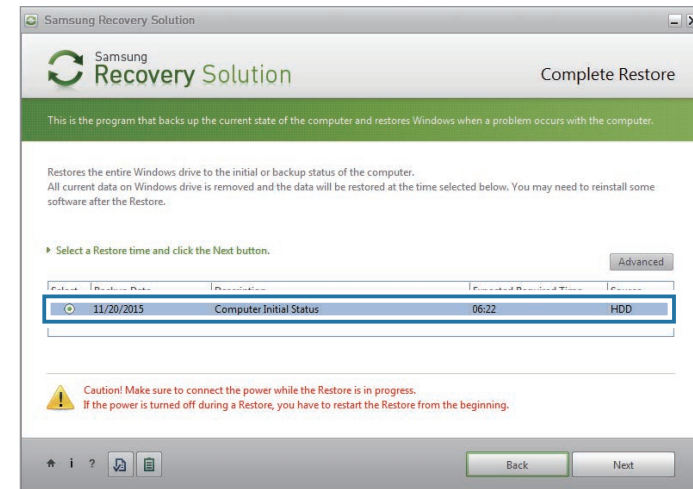
2 If the initial menu screen appears, select **Restore**.



If you select **Select by Symptom**, the Select by Symptom menu appears. If you select a symptom, a recommended restoration option will blink. Select the restoration option to continue.

3 Select either **Basic Restore** or **Complete Restore** from the Restore menu.

To restore the computer to the initial state, select **Computer Initial Status** and perform the restoration process according to the instructions that appear on the screen.



Run **Complete Restore** if the computer does not work even after **Basic Restore** has been completed.



In the **Advanced** menu, you can change the size of the hard drive partitions (e.g. C: and D:).

- Make sure to backup your data in advance, as all data will be deleted after the partition size is changed.
- The **Advanced** menu appears only when the computer boots up in the restoration area by pressing the **F4** key during the booting sequence.



Since a Complete Restore deletes all user data as well as additionally installed programs, please backup your important data first using the Data Backup function, before running Complete Restore.

- 4 The computer boots up into restoration mode and the restoration progress message appears. If you select **OK**, the restoration begins. The restoration may take some time, please wait for a moment.
- 5 When the 'Restart the System' message appears after the restoration is complete, select **OK** to restart the system.



Make sure that the power cord is connected while the restoration is in process. The first time the computer boots up after a Complete Restore has been performed, the speed of the boot process may be slowed down due to the system optimization process. At this time, do not shut the computer down by force.

Complete Backup/Restore

A **Complete Backup** saves the complete image of the C drive onto another drive or DVD.

A **Complete Restore** restores the image file saved by the Complete Backup onto the C drive.

Complete Backup



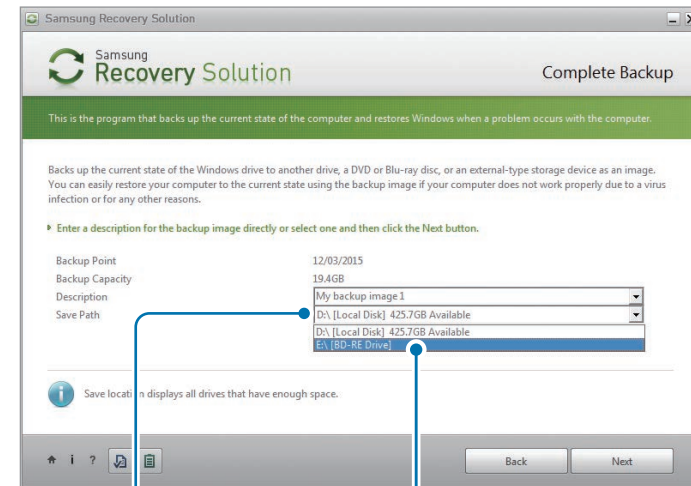
If you perform the Complete Backup function onto a DVD or removable storage device, you can restore your computer even when a problem occurs with the hard disk or when the restoration area is removed.

To create a backup, a removable storage device with at least 15 GB of free space is required.

- 1 Select **Backup** → **Complete Backup** in the start screen of the Samsung Recovery Solution.
- 2 Enter a description of the current status of the computer and select **Next**.



After connecting a DVD drive or removable storage device, you can specify the DVD drive or removable storage device as the Save Path.



Select Drive D.

Select the DVD drive.

3 When the option selection item appears, select an option and select **Next**.



The LiveImaging function is supported as options for the Complete Backup operation.

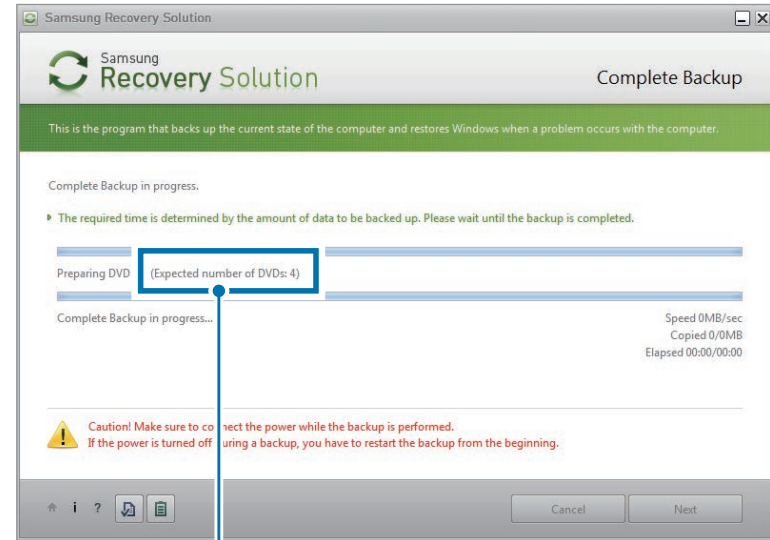
The LiveImaging function performs the Complete Backup operation while Windows is running. The backup operation using LiveImaging may slow down if the hard disk drive is accessed frequently by other applications.

4 When the system restarts in restoration mode, the **Complete Backup** operation begins. Continue with the backup by following the instructions.



- Samsung Recovery Solution supports the DVD+R, DVD-R, DVD+RW and DVD-RW formats.
- If the LiveImaging option has been selected, the Complete Backup operation begins without the computer being restarted.

5 Continue with the Complete Backup operation by following the instructions.



Expected number of DVDs

6 When the 'Restart the System' message appears after the backup is complete, select **OK** to restart the system.



If the LiveImaging option has been selected, the computer is not restarted.

Complete Restore

1 When backing up onto DVD

Turn the computer on and insert the backup DVD into the DVD drive.

If there are multiple backup DVDs, insert the first DVD.

When backing up to a removable storage device

Connect the removable storage device.

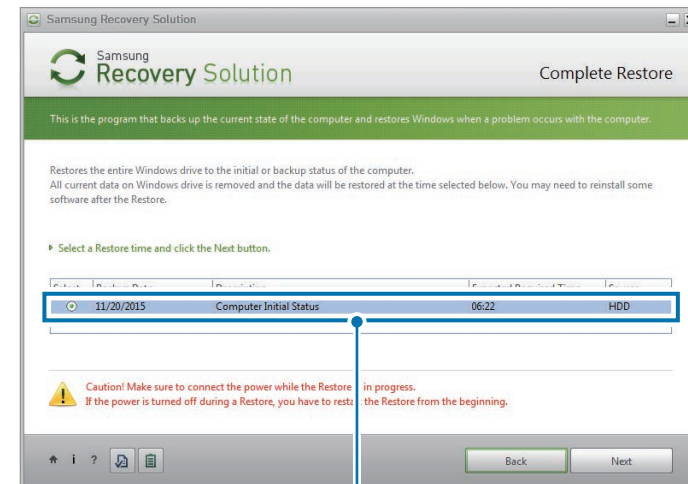
When backing up to another drive

Proceed to Step 2.

2 Select **Restore** → **Complete Restore** in the start screen of the Samsung Recovery Solution.

3 Select a restore time and select **Next**.

The system is restarted.



Restore time

4 The restoration progress message appears after the computer boots up in restoration mode. If you select **OK**, the restoration begins.

5 When the 'Restart the System' message appears after the restoration is complete, select **OK** to restart the system.

Data Backup/Restore

The **Data Backup** function enables you to backup specific files and folders to another drive, DVD or removable storage device.

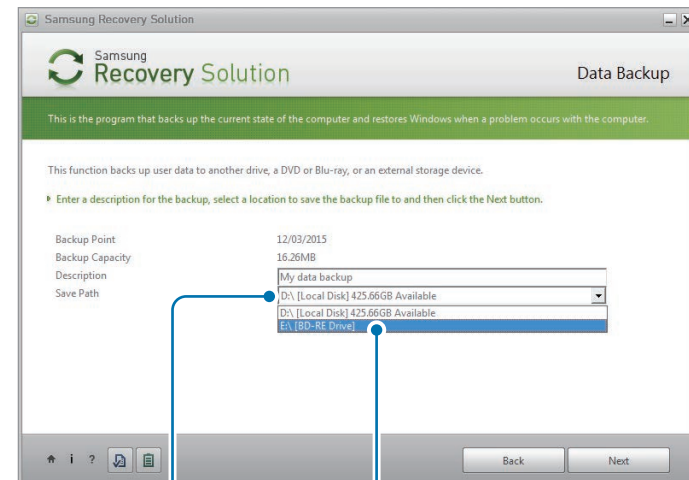
The **Data Restore** function enables you to restore data using the data saved by a Data Backup when data is lost.

Data Backup

- 1 Select **Backup** → **Data Backup** in the start screen of the Samsung Recovery Solution.
- 2 In the data selection screen, select either **Basic Selection** or **Select from all**, select a folder or file to be backed up, and then select **Next**.
- 3 Enter a description for the backup, specify the Save Path, and then select **Next**.



If your computer has a DVD-Writer, you can specify the DVD drive as the Save Path.



Select Drive D.

Select the DVD drive.



If you have specified a hard disk drive or a removable disk as the Save Path, the SamsungRecovery\SamsungData folder is created on the corresponding drive (e.g. D:\) and the data is saved to the folder. Take care to not delete the folder by mistake or on purpose.

- 4 Continue with the Data Backup operation by following the instructions.

The **“Backup is completed”** message appears.

Data Restore

1 When backing up onto DVD

Turn the computer on and insert the backup DVD into the DVD drive.

When backing up to a removable storage device

Connect the removable storage device.

When backing up to another drive

Proceed to Step 2.

2 Select **Restore** → **Data Restore** in the start screen of the Samsung Recovery Solution.

3 Select a backup item to be restored in the backup list and select **Next**.

4 Select a folder for the restoration and select **Next**.
Data Restore begins.

5 When Data Restore is completed, check if the data has been restored to the specified folder.

Uninstalling Samsung Recovery Solution

You can uninstall the Samsung Recovery Solution application.



When you uninstall this application, the recovery area of the hard disk drive will not be deleted. When you press the **F4** key while turning on the computer, the computer boots up in restoration mode. You can use the restore and backup functions in this mode.

1 Select the Start button (🌐) → **Control Panel** → **Uninstall a program**.

2 Select **Samsung Recovery Solution** → **Uninstall**.
The application will be deleted.

Samsung Recovery Solution

What is a Recovery Area?

The computer has an additional partition for restoring data or saving backup files (only for models with the **Samsung Recovery Solution** application). This partition is called a Recovery Area and it includes a recovery image comprised of the operating system and applications.

Why is the capacity representation of the hard disk drive (HDD) in Windows different from the product specifications?

The capacity of the storage device (HDD or SSD) of the manufacturer is calculated assuming that 1 KB = 1,000 Bytes. However, the operating system (Windows) calculates the storage device capacity assuming that 1 KB = 1,024 Bytes, and therefore the capacity representation of the HDD in Windows is smaller than the actual capacity. The capacity representation in Windows may be smaller than the actual capacity because some applications occupy a certain area of the HDD outside of Windows.

For models with the **Samsung Recovery Solution** application, the HDD capacity representation in Windows may be smaller than the actual capacity because the **Samsung Recovery Solution** application uses a hidden area of 5–20 GB of the HDD to save the recovery image, and that hidden area is not counted towards the total size available to Windows. The size of the **Samsung Recovery Solution** application varies by model.

What is a recovery image?

This refers to the operating system, drivers, and software that are converted to a data image. It is required to recover the computer and is embedded in the computer's HDD. However, this is not provided for storage devices where the capacity is less than 64 GB, due to their small capacities.

How can I restore a computer that does not have the Samsung Recovery Solution application?

Restore the computer with the recovery function provided by Windows. Refer to the Recover Functionality item in the help for more details.

Appendix

Product specifications

The system specifications may differ depending on the derived model. For detailed system specifications, refer to the product catalog.

Item	Specification
Operating environment	<ul style="list-style-type: none">• Temperature: -5–40°C for storage, 10–35°C when operating• Humidity: 5–90% for storage, 20–80% when operating
AC/DC rating	<ul style="list-style-type: none">• Input: 100–240 VAC, 50–60 Hz• Output: 19 VDC, 3.16 A, 19 VDC, 4.74 A
PC rating	<ul style="list-style-type: none">• 19 VDC, 3.16 A (60 W), 19 VDC, 4.74 A (90 W)



- Optional components may not be provided or different components may be provided depending on the model.
- The system specifications are subject to change without notice.
- The Storage device capacity of a computer in which **Samsung Recovery Solution** is installed, is smaller than the product specification.
- SSDs are not available for some models.
- The amount of memory that Windows can use may be smaller than the actual amount of memory available.

Ergonomic tips

Maintaining the proper posture during computer use is very important to prevent physical injury. Improper or prolonged keyboard use may result in repetitive strain injury. Viewing the monitor screen for extended periods of time may result in eye strain. Therefore, please follow these guidelines carefully when setting up and using the computer.

Back and neck

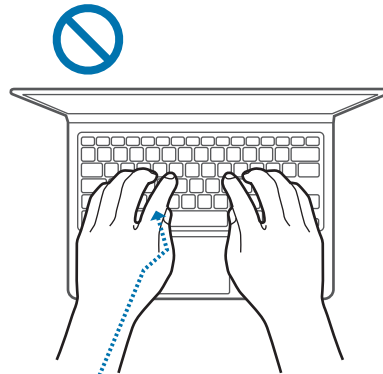
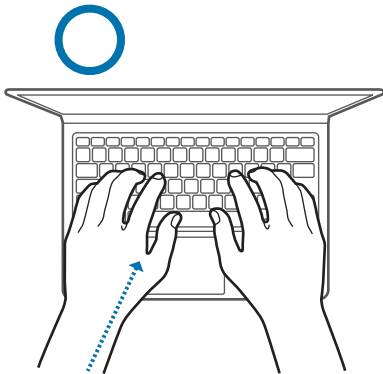
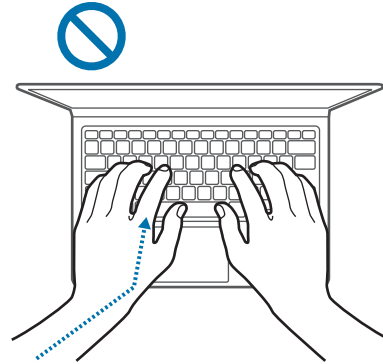
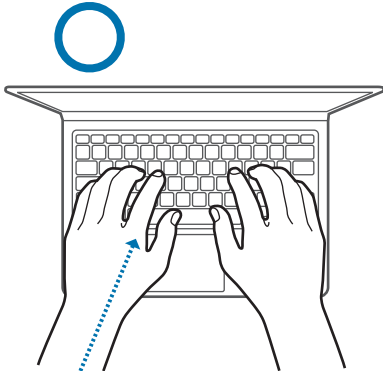


- Use an adjustable chair with firm, comfortable support.
- Adjust the height of your chair so that thighs are horizontal to the floor and feet are flat on the floor.
- The back of the chair should support the lower back. Adjust the backrest to fit your body properly.
- Sit back fully in your chair and straighten the back and neck. Avoid leaning forward or craning your neck toward the computer screen.
- Avoid using the computer while lying down or on your lap. If the computer's temperature increases, there is a danger of burn injury.



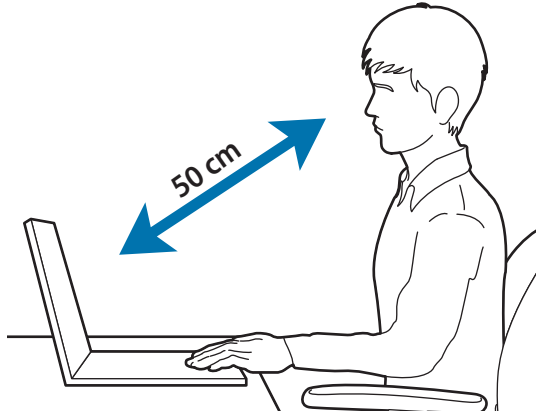
- The instructions in this manual have been prepared so that they can be applied to the range of needs of general users. If the user is not included in the range, the recommendations should be applied according to the user's needs.
- Images may differ from actual products.

Arms and hands



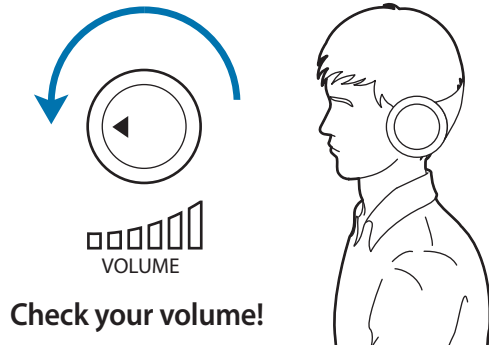
- When using the keyboard and touchpad, the shoulders should be relaxed. The upper arm and forearm should form an angle that is slightly greater than a right angle, with the wrist and hand in almost a straight line.
- Use a light touch when typing or using the touchpad and keep the hands and fingers relaxed. Avoid rolling the thumbs under your palms or supporting the wrists on the desk while typing.
- Use an external keyboard and mouse when using the computer for long periods. When using an external keyboard and mouse, position the devices at the same height as the computer and within comfortable reach.

Eye position and display illumination



- Position the screen at least 50 cm away from your eyes.
- Adjust the height of the screen so that its top edge is equal to or just below the level of your eyes.
- Avoid setting the screen's brightness settings excessively high.
- Keep the screen clean.
- If wearing glasses, clean them before using the computer.
- When referring to printed content while typing, use a static paper holder to hold the paper at about the same height as the monitor.

Hearing and volume control



- Ensure that volume is not too loud before using headphones.
- Avoid using headphones for long periods of time.
- Default audio settings can be changed by software and driver updates without your knowledge. Always recheck equalizer and volume settings before listening to audio.
- To prevent possible hearing damage, do not listen at high volume levels for long periods.



Operating conditions

- Take at least a 10 minute break every hour.
- Avoid using the computer in dark locations. Use the computer with as much ambient light as you would when reading a book.
- Indirect illumination is recommended. Use a curtain to prevent reflections and glare on the screen.
- While operating a computer and talking on the phone, use a headset. Using the computer while holding a phone on your shoulder or with your neck may lead to muscle strain or injury.
- Keep frequently used items within reach.
- Only use the computer within the temperature and humidity ranges specified in this manual.

Safety precautions

This safety information relates to computer use. Some of the content may be not applicable to your computer. To prevent injury or damage to your computer, read the safety information before using it.

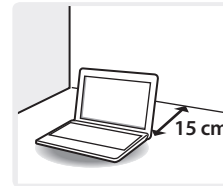


- Since this is commonly applied to Samsung Computers, some pictures may differ from actual products.
- The term “product,” as used in this manual, refers to basic components, such as the computer, battery, adapter, and optional accessories provided by Samsung.

Warning

Failure to follow the instructions marked with this symbol may result in physical injury or fatality.

Installation related



Keep the computer at least 15 cm away from any object.

Failure to do so may cause computer malfunction or damage, or physical injury.



Do not place or use the computer on slanted or vibrating surfaces.

Failure to do so may result in computer malfunction or damage.



To avoid suffocation, keep the plastic bag away from infants and children.

Putting a plastic bag over the head may result in suffocation.

Power related



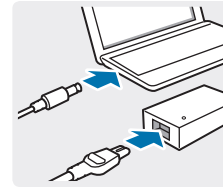
The power plug and wall outlet figures may differ depending on the country and the product model.



Handle the power cord with care.

- Do not touch with wet hands.
- Do not use a damaged or improperly connected power cord.
- Do not overload a multi-outlet or an extension cord beyond the specified voltage/current capacity.
- Firmly insert the power cable into the AC adapter.
- Do not unplug the power cord by pulling on the cable.
- Unplug the wall-mount AC adapter (integrated plug and power adapter) from the wall outlet while holding the body and pulling it in the direction of the arrow.

Failure to do so may result in electric shock or fire.

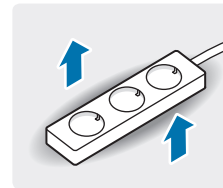


Connect the power cord to the AC adapter firmly.

An improper connection may result in a fire.

Use only the provided AC adapter.

Using a third-party adapter may cause the screen to flicker.



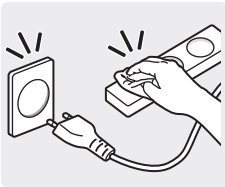
Use only properly earthed electric sockets or extension cords.

Unearthed electric sockets or extension cords may cause electric shock. Any connection to unearthed electric sockets or extension cords may produce an electric field from a current leak.



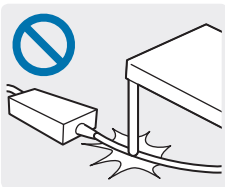
If water or other substances enters the computer, the DC jack, or the AC adapter, disconnect the power cable and contact a Samsung Service Center. For notebook computers that are supplied with an optional removable battery, disconnect the battery.

Failure to do so may result in electric shock or fire.



Do not let dust accumulate on the power cord or the electric socket. Regularly clean the power cord and the electric socket with a dry cloth.

Failure to do so may result in electric shock or fire.



Do not bend or damage the power cable or the AC adapter with a heavy or sharp-edged object.

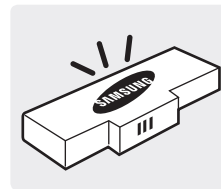
A damaged cable or cord may result in electric shock or fire.

Battery usage related



Keep the battery, AC adapter, and the power cord away from infants, children, and pets.

Failure to do so may result in electric shock or damage.



Use only Samsung-approved batteries, AC adapters, and accessories.

Batteries or AC adapters that are not approved by Samsung may malfunction from a defective safety device, resulting in an explosion or fire.



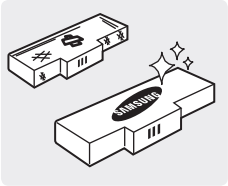
Take care not to allow metal objects such as a key or clip to touch the battery terminal (metal parts).

This may cause excessive current and result in fire, burns, or damage to the battery.



If the computer or the computer battery leaks, emits strange odors, or swells, immediately stop using the computer and contact a Samsung Service Center.

Failure to do so may result in an explosion or fire.



Replace a run-down battery with a new, Samsung-approved battery.



When removing the real time clock (RTC) battery, keep it away from infants and children.

If a child swallows the battery, the child may suffocate. If this happens, immediately contact a doctor.

Usage related



Do not use the computer on heated floors or electric pads, or on beds, blankets, or cushions that block the ventilation of the computer.

In such environments, be careful not to block the vent of the computer, which is normally at the side or bottom of the computer. A blocked vent causes the computer to overheat, resulting in an explosion, fire, burns, or computer malfunction.



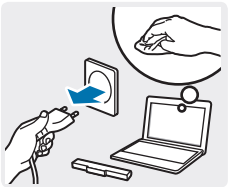
Do not use the computer in humid locations, such as a bathroom.

Failure to do so may result in computer malfunction or electric shock. Use the computer within the recommended temperature and humidity range (10–35°C, 20–80% RH).



Never heat the computer (or the battery) or put the computer (or the battery) into a fire. Do not put or use the computer (or the battery) in a hot location, such as in a sauna or inside a vehicle when the outside temperature is high.

There is a danger of an explosion or fire.



Before cleaning the computer, disconnect all the cables that are connected to the computer. For notebook computers that are supplied with an optional removable battery, disconnect the battery.

Failure to do so may result in electric shock or fire.



Keep the computer away from water or liquid.

Water or liquid entering the computer may short-circuit the computer, resulting in electric shock or fire.



If the computer is dropped or broken, disconnect the power cord and contact a Samsung Service Center. For notebook computers that are supplied with an external removable battery, disconnect the battery as well.

Using a broken computer may result in electric shock or fire.



Do not touch the computer vents or the connected AC adapter for extended periods while the computer is on.

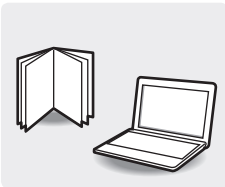
Contact with the vent or the connected AC adapter for extended periods may result in low-temperature burns, such as redness on the skin.

Upgrade related



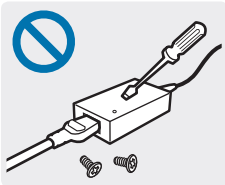
Do not attempt to upgrade the computer, unless you are qualified.

Otherwise, contact a Samsung Service Center or an authorized technician.



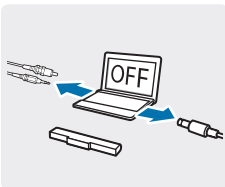
Follow the specified instructions contained in the manual for user maintenance.

Do not disassemble any other parts by yourself. Failure to do so may result in computer malfunction, electric shock, or fire.



Do not disassemble the power supply unit, the AC adapter, or the battery in any circumstances.

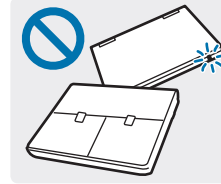
Failure to do so may result in electric shock, fire, or an explosion.



Shut down the computer and disconnect all cables before disassembling the computer. If the notebook has a removable battery, remove the external battery.

Failure to do so, may cause electric shock.

Storage and movement related

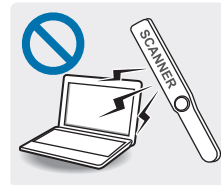


Do not store the computer in an enclosed space, such as a computer bag, while it is running.

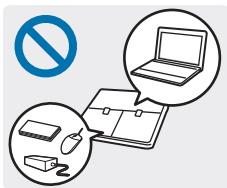
Failure to do so may result in fire. Completely shut down the computer before putting the computer into an enclosed space.



When using wireless communication (LAN, Bluetooth, etc.) always follow applicable instructions. For example, airlines and hospitals have strict requirements.



Avoid exposing a drive to magnetic fields. Security devices with magnetic fields include airport walk-through devices and security wands. The airport security devices that check carry-on luggage, such as conveyor belts, use X-rays instead of magnetism and will not damage a drive.



When carrying the notebook computer with other items, such as the adapter, mouse, books etc., take care not to press anything against the notebook computer.

If a heavy object is pressed against the notebook computer, a white spot or stain may appear on the LCD. Therefore, take care not to apply any pressure to the notebook.

In this case, place the notebook computer in a separate compartment away from the other objects.

Caution

Failure to follow instructions marked with this symbol may result in minor physical injury or damage to the computer.

Installation related

Do not block the ports (holes), vents, etc. of the product and do not insert objects.

Damage to a component within the computer may cause electric shock or fire.

When using the computer on its side, ensure the vents are clear and facing upwards.

Failure to do so, may cause the internal temperature of the computer to rise and the computer to malfunction or halt.

Do not place heavy objects on the product.

This may cause a problem with the computer. In addition, the object may fall and cause injury or damage the computer.

Connect the power cord to the nearest socket outlet when charging the computer.

If a problem occurs and disconnection from the socket outlet is delayed, there is a danger of electric shock or fire.

Dispose of worn-out batteries properly.

- There is a danger of fire or explosion.
- The battery disposal method may differ depending on your country and region. Dispose of the used battery in an appropriate way.

Do not throw or disassemble the battery and do not put it into water.

This may cause an injury, fire or explosion.

Only use a Samsung-authorized battery.

Failure to do so may cause an explosion.

Keep the battery terminals away from metal objects such as car keys or paper clips.

If metal objects touch the battery terminals, it may cause excessive current and result in fire or damage to the battery.

Charge the battery according to the instructions in the manual.

Failure to do so may cause an explosion or fire.

Do not heat the product (or battery) or expose it to heat (e.g. inside a vehicle during the summer).

There is a danger of explosion or fire.

Usage related

Use the pen for its intended purpose only.

Using the pen for abnormal actions such as poking eyes or ears may cause physical injury.

Do not place a candle, light cigar, etc. over or on the product.

There is a danger of fire.

Make sure to have the product tested by a safety service engineer after repairing the product.

Authorized Samsung Repair Centers will carry out safety checks after a repair. Using a repaired product without testing it for safety may cause an electric shock or fire.

In case of lightning, immediately turn the system off, disconnect the power cord from the wall outlet and phone line from modem. Do not use the modem or phone.

There is a danger of electric shock or fire.

Connect only permitted devices to the connectors or ports of the computer.

Failure to do so, may cause electric shock and fire.

Close the LCD panel only after checking if the notebook computer is turned off.

The temperature may rise and it may cause deformation of the product.

Do not press the eject button while the CD-ROM drive is in operation.

You might lose data and the disc might be suddenly ejected and could cause an injury.

Do not drop, hit, or apply excessive force to the computer.

Failure to do so may result in physical injury or data loss.

Do not allow the antenna and a source of electricity, such as a socket outlet, to come into contact.

There is a danger of electric shock.

When handling computer parts, follow the instructions on the manual supplied with the parts.

Failure to do so, may cause damage to the product.

If the computer emits smoke or there is a burning smell, disconnect the power plug from the wall outlet and contact a Samsung Service Center immediately. Disconnect the power supply and remove the battery if one is fitted.

There is a danger of fire.

Do not use a damaged or modified CD.

There is a danger of damaging the product or personal injury.

Do not insert the fingers into the PC Card Slot.

There is a danger of injury or electric shock.

Use recommended computer cleansing solutions when cleaning the product and only use the computer when it is completely dry.

Failure to do so may cause electric shock or fire.

You should not use a paper clip to perform an emergency disc ejection while the disc is in motion. Make sure to use the emergency disc eject method only when the Optical Disc Drive has stopped.

There is a danger of injury.

Do not place your face close to the Optical Disc Drive tray when it is operating.

There is a danger of injury due to an abrupt ejection.

Keep the computer away from magnetic material.

- Magnetic materials may cause computer malfunction or cause the battery to discharge.
- To avoid damaging the computer or magnetic stripe cards, such as credit cards, keep magnetic stripe cards away from the computer.

Do not use your computer in a hospital or on an aircraft that can be interfered with by radio frequency.

- Avoid using your computer within a 15 cm range of a pacemaker, if possible, as your computer can interfere with the pacemaker.
- To minimize possible interference with a pacemaker, use your computer only on the side of your body that is opposite the pacemaker.
- If you use medical equipment, contact the equipment manufacturer before using your computer to determine whether or not the equipment will be affected by radio frequencies emitted by the computer.
- When in a hospital, turn off your computer and follow all hospital regulations. Radio frequencies emitted from the computer may affect medical equipment.

Upgrade Related

Take care when touching the product or parts.

The device may be damaged or you may be injured.

Take care not to throw or drop the computer or its components.

This may cause injury or damage to the product.

Make sure to close the computer cover before connecting the power after a reassembly.

There is a danger of electric shock if your body touches an internal part.

Only use parts authorized by Samsung.

Failure to do so, may cause fire or damage the product.

Never disassemble or repair the product by yourself.

If the computer is serviced or repaired by an unqualified person, the warranty will not cover the repair fees. There is a danger of accident. Use authorized Samsung Service Centers.

To connect a device that is not manufactured or authorized by Samsung, enquire at a Samsung Service Center before connecting the device.

There is a danger of damaging the product.

Storage and movement related

Properly shut down, disconnect and secure the computer cables before moving it.

Failure to do so may damage the computer or cause someone to trip over a loose cable.

For long periods of inactivity or storage, discharge the battery and separate it from the computer (for external or removable battery types).

This will extend the battery's lifespan.

Do not operate or look at the computer while driving a vehicle.

There is a danger of a traffic accident. Please concentrate on driving.

Cautions on preventing data loss (hard disk management)

Take care not to damage the data on a hard disk drive.

- A hard disk drive is so sensitive to external impact that an external impact may cause loss of data on the surface of the disk.
- Take extra care, because moving the computer or an impact on the computer when it is turned on may damage the data on the hard disk drive.
- Samsung is not liable for any loss of data on the hard disk drive.

Situations that may damage the data of a hard disk drive and the hard disk drive itself.

- The data may be lost when an external impact is applied to the disk while disassembling or assembling the computer.
- The data may be lost when the computer is turned off or reset by a power failure while the hard disk drive is operating.
- The data may be lost and irrecoverable due to a computer virus.
- The data may be lost if the power is turned off while running an application.
- Sudden impact or movement to the computer while the hard disk drive is operating, may cause files to be corrupted or bad sectors on the hard disk.

To prevent data loss due to damage to the hard disk drive, please back up the data frequently.

LCD bad pixels

Samsung observes strict specifications regarding the quality and reliability of the LCD. However, there is a small chance that a few pixels may be bad. A large number of bad pixels can cause problems with the display, but a small number of bad pixels does not generally affect computer performance.

Samsung's quality standards for bad pixels are as follows:

- Bright dot: 2 or fewer
- Black dot: 4 or fewer
- Combination (bright and dark): 4 or fewer

Cleaning the LCD screen

Clean the LCD screen with a soft cloth dampened with computer cleansing detergent. When cleaning the screen, move the cloth in one direction. Do not use excessive force. Doing so may damage the LCD screen.

Important safety information

Safety instructions

The system is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that the safety instructions marked on the product and in the documentation are followed.



Always follow these instructions to help guard against personal injury and damage to the system.

Setting up the system

- Read and follow all instructions marked on the product and in the documentation before operating the system. Retain all safety and operating instructions for future use.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable work surface.
- The product should be operated only with the type of power source indicated on the rating label.
- Ensure that the electrical outlet to power the equipment is easily accessible in case of fire or short circuit.
- If the computer has a voltage selector switch, make sure that the switch is in the proper position for your area.
- Openings in the computer case are provided for ventilation. Do not block or cover these openings. Make sure you provide adequate space, at least 6 inches (15 cm), around the system for ventilation when setting up your work area. Never insert objects of any kind into the computer ventilation openings.

- Ensure that the fan vents on the bottom of the casing are clear at all times. Do not place the computer on a soft surface, doing so will block the bottom vents.
- When using an extension cord with this system, make sure that the total power rating on the products plugged into the extension cord does not exceed the extension cord power rating.
- For Notebooks with glossy display bezels the user should consider the placement of the Notebook as the bezel may cause reflections from surrounding light and bright surfaces.

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill anything on the computer or its components. The best way to avoid spills is to not eat or drink near the computer or its components.
- Some products have a replaceable CMOS battery on the system board. There is a danger of explosion if the CMOS battery is replaced incorrectly. Replace the battery with the same or equivalent type recommended by the manufacturer. Dispose of batteries according to the manufacturers instructions. If the CMOS battery requires replacement ensure that a qualified technician performs the task.
- When the computer is turned off, a small amount of electrical current still flows through the computer.
To avoid electrical shock, always unplug all power cables, remove the battery and modem cables from the wall outlets before cleaning the system.

- Unplug the system from the wall outlet and contact a Samsung Service Center if:
 - The power cord or plug is damaged.
 - Liquid has been spilled into the computer.
 - The computer does not operate properly when the operating instructions are followed.
 - The computer was dropped or the casing is damaged.
 - The computer performance changes.

Operating instructions

- 1 When installing and operating devices please refer to safety requirements in the user manual.
- 2 Devices can be used only with the equipment specified in the technical specifications of the devices.
- 3 If any smell of burning or smoke is detected from the computer the unit should be switched off and the battery removed. The unit should be checked by a qualified technician before reuse.
- 4 Service and repair of devices should be carried out by authorized service centers.
- 5 Do not allow the portable computer to operate with the base resting directly on exposed skin for extended periods of time. The surface temperature of the base will rise during normal operation (particularly when AC Power is present). Allowing sustained contact with exposed skin can cause discomfort or eventually a burn.

Replacement parts and accessories

Use only replacement parts and accessories recommended by manufacturer.



To reduce the risk of fire, use only No. 26 AWG or larger telecommunications line cord.



Do not use this product in areas classified as hazardous. Such areas include patient care areas of medical and dental facilities, oxygen rich environments, or industrial areas.

Battery disposal



Do not put rechargeable batteries or products powered by non-removable rechargeable batteries in the garbage.

Contact the Samsung Service Center for information on how to dispose of batteries that you cannot use or recharge any longer. Follow all local regulations when disposing of old batteries.



THERE IS RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Laser safety

All systems equipped with CD or DVD drives comply with the appropriate safety standards, including IEC 60825-1. The laser devices in these components are classified as “Class 1 Laser Products” under a US Department of Health and Human Services (DHHS) Radiation Performance Standard. Should the unit ever need servicing, contact an authorized service location.



- **Laser Safety Note:** Use of controls or adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure. To prevent exposure to laser beams, do not try to open the enclosure of a CD or DVD drive.
- Class 1M laser radiation when operating part is open. Do not view directly with optical instruments.
- Class 3B invisible laser radiation when open. Avoid exposure to the beam.

Connect and disconnect the AC adapter

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

Do not unplug the power cord by pulling the cable only.

Power cord requirements

The power cord set (all plug, cable and AC adapter plug) you received with your computer meets the requirements for use in the country where you purchased your equipment.

Power cord sets for use in other countries must meet the requirements of the country where you use the computer. For more information on power cord set requirements, contact your authorized dealer, reseller, or service provider.

General requirements

The requirements listed below are applicable to all countries:

- All power cord sets must be approved by an acceptable accredited agency responsible for evaluation in the country where the power cord set will be used.
- The power cord set must have a minimum current capacity of 7A and a nominal voltage rating of 125 or 250 volts AC, as required by each country's power system (USA only).
- The appliance coupler must meet the mechanical configuration of an EN 60 320/IEC 320 Standard Sheet C7 (or C5) connector, for mating with appliance inlet on the computer.

Regulatory compliance statements

Wireless guidance

(If fitted with 2.4 G band or 5 G band)

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in the notebook system. The following section is a general overview of considerations while operating a wireless device.

Additional limitations, cautions, and concerns for specific countries are listed in the specific country sections (or country group sections). The wireless devices in the system are only qualified for use in the countries identified by the Radio Approval Marks on the system rating label. If the country you will be using the wireless device in, is not listed, please contact your local Radio Approval agency for requirements. Wireless devices are closely regulated and use may not be allowed.

The RF field strength of the wireless device or devices that may be embedded in the notebook are well below all international RF exposure limits as known at this time. Because the wireless devices (which may be embedded into the notebook) emit less energy than is allowed in radio frequency safety standards and recommendations, manufacturer believes these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

Some circumstances require restrictions on wireless devices.

Examples of common restrictions are listed on the next page:



- Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane.

802.11ABGN (also known as wireless Ethernet or Wi-Fi) and Bluetooth communication devices are examples of devices that provide wireless communication.

- In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, Hospitals, and Oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.

- Every country has different restrictions on the use of wireless devices. Since your system is equipped with a wireless device, when traveling between countries with your system, check with the local Radio Approval authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination country.
- If the system came equipped with an internal embedded wireless device, do not operate the wireless device unless all covers and shields are in place and the system is fully assembled.
- Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Please contact the manufacturer for service.
- Only use drivers approved for country in which the device will be used. See the manufacturer System Restoration Kit, or contact the manufacturer's technical support for additional information.

United States of America

USA and Canada Safety Requirements and Notices

Do not touch or move antenna while the unit is transmitting or receiving.

Do not hold any component containing the radio such that the antenna is very close to touching any exposed parts of the body, especially the face or eyes, while transmitting.

Do not operate the radio or attempt to transmit data unless the antenna is connected; if not, the radio may be damaged.

Use in specific environments:

The use of wireless devices in hazardous locations is limited by the constraints posed by the safety directors of such environments.

The use of wireless devices on airplanes is governed by the Federal Aviation Administration (FAA).

The use of wireless devices in hospitals is restricted to the limits set forth by each hospital.



Explosive Device Proximity Warning

Do not operate a portable transmitter (such as a wireless network device) near unshielded blasting caps or in an explosive environment unless the device has been modified to be qualified for such use.



Use On Aircraft Caution

Regulations of the FCC and FAA prohibit airborne operation of radio-frequency wireless devices because their signals could interfere with critical aircraft instruments.

Other wireless devices

Safety notices for other devices in the wireless network:

Refer to the documentation supplied with wireless Ethernet adapters or other devices in the wireless network.



The Part 15 radio device operates on a non-interference basis with other devices operating at this frequency. Any changes or modification to said product not expressly approved by Intel could void the user's authority to operate this device.

Unintentional emitter per FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet helpful: "Something About Interference."

This is available at FCC local regional offices. Our company is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by our company. The correction will be the responsibility of the user. Use only shielded data cables with this system.

Intentional emitter per FCC Part 15

(If fitted with 2.4 G band or 5 G band)

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in the notebook system. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in the system are only qualified for use in the United States of America if an FCC ID number is on the system label.

This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.

Operation of this device is subject to the following two conditions:

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



Wireless devices are not user serviceable. Do not modify them in any way.

Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.

Health and safety information

Exposure to Radio Frequency (RF) Signals Certification Information

This product can contain an embedded radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Council on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

Before a new model is available for sale to the public, it must be certified to the FCC that it does not exceed the exposure limit established by the FCC. Evaluation per each model is performed in positions and locations (e.g. at the bottom on the body) as required by the FCC.

For body worn operation, this model meets the FCC RF exposure guidelines when used with Samsung accessory designated for this product. Non-compliance with the above restrictions may result in violation of FCC RF exposure guidelines.

RF exposure or SAR information can be viewed on-line at www.fcc.gov/oet/ea/fccid/. This site uses this product FCC ID number on the outside of the product. Sometimes it may be necessary to remove the battery pack to find number. Once you have the FCC ID number for a particular product, follow the instructions on the website and it should provide RF exposure information or values for typical or maximum SAR for particular product.

For corresponding model only

The Specific Absorption Rate (SAR) is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC wireless devices to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

SAR level of this device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Canada

Unintentional emitter per ICES-003

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

Intentional emitter per RSS 210

This device complies with RSS 210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

The term “IC” before the equipment certification number only signifies that the Industry Canada technical specifications were met. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication. To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

(If fitted with 2.4 G band or 5 G band)

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in your notebook system. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in Canada if an Industry Canada ID number is on the system label.

When using IEEE 802.11a wireless LAN, this product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. Industry Canada requires this product to be used indoors for the frequency range of 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel mobile satellite systems. High power radar is allocated as the primary user of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage to this device.

The maximum allowed antenna gain for use with this device is 6dBi in order to comply with the E.I.R.P limit for the 5.25 to 5.35 GHz and 5.725 to 5.85 GHz frequency range in point-to-point operation.

The power output of the wireless device (or devices), which may be embedded in your notebook, is well below the RF exposure limits as set by Industry Canada.

Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.



To prevent radio interference to licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.



Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.

Brazil

Este produto está homologado pela ANATEL, de acordo com os procedimentos regulamentados pela Resolução 242/2000, e atende aos requisitos técnicos aplicados.

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

European Union

Band and mode

Band and mode	Output power
Wi-Fi, BT 2.4 GHz	20 dBm
Wi-Fi 5.1–5.7 GHz	23 dBm
Wi-Fi 5.8 GHz	25 mW

The use of WLAN band is restricted to indoor use only. This restriction will be applied in all EU member states.

AT	BE	BG	CH	CY	CZ	DE	DK	EE	ES	EL
FI	FR	HR	HU	IE	IS	IT	LI	LT	LU	LV
MT	NL	NO	PL	PT	RO	SE	SI	SK	TR	UK

Samsung Electronics (UK) Ltd, Euro QA Lab.

Samsung Electronics

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Declaration of Conformity

Samsung Electronics declares that this device complies with the essential requirements and relevant provisions of Directive 2014/53/EU.

Go to www.samsung.com/mobile_doc to view the Declaration of Conformity.

European economic area restrictions

Local restriction of 802.11b/802.11g radio usage

Note to integrator: The following statements on local restrictions must be published in all end-user documentation provided with the system or product incorporating the wireless product.



Due to the fact that the frequencies used by 802.11b/802.11g wireless LAN devices may not yet be harmonized in all countries, 802.11b/802.11g products are designed for use only in specific countries or regions, and are not allowed to be operated in countries or regions other than those of designated use.

As a user of these products, you are responsible for ensuring that the products are used only in the countries or regions for which they were intended and for verifying that they are configured with the correct selection of frequency and channel for the country or region of use. Any deviation from permissible settings and restrictions in the country or region of use could be an infringement of local law and may be punished as such.

The European variant is intended for use throughout the European Economic Area. However, authorization for use is further restricted in particular countries or regions within countries, as follows:

General

European standards dictate maximum radiated transmit power of 100 mW effective isotropic radiated power (EIRP) and the frequency range 2400–2483.5 MHz.

The low band 5.15–5.35 GHz is for indoor use only.

Belgium

For private use outdoors in public spaces, no registration is necessary for distances less than 300 m. For distances greater than 300 m, you must register with the Belgian Institute for Postal services and Telecommunications (BIPT). For commercial use outdoors, you must obtain a license from the BIPT. For registration or licensing, please contact the BIPT.

For other languages, refer to the corresponding manuals.

France

The low band 5.15–5.35 GHz is for indoor use only.

RTC caution

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

WEEE symbol information



Correct disposal of this product (Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (for example, charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

For information on Samsung's environmental commitments and product specific regulatory obligations e.g. REACH visit: samsung.com/uk/aboutsamsung/samsungelectronics/corporatecitizenship/data_corner.html

India only

For more information on safe disposal and recycling visit our website www.samsung.com/in or contact our Helpline numbers - 18002668282, 180030008282.

This product is RoHS compliant.



**Correct disposal of batteries in this product
(Applicable in countries with separate collection systems)**

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material re-use, please separate batteries from other types of waste and recycle them through your local, free battery return system.

USA only

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA.

“Perchlorate Material- special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate.”

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect

or call, (877) 278-0799.

For battery recycling go to call2recycle.org; or call 1-800-822-8837.

Samsung package Take-Back program

In partnering with select recyclers, Samsung offers packaging take-back at no cost to you.

Simply call the following number for the locations nearest you.

CRT Processing, LLC

(877) 278-0799

Kathy Severson – Logistics contact

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect or call, (877) 278-0799

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SAMSUNG