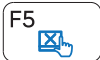
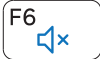


Shortcut Keys	Name	Function
	Easy Settings	The Samsung software control program, the Easy Settings , is launched.
 	Screen Brightness Control	Controls the screen brightness.
	CRT/LCD	Switches the screen output to the LCD or external monitor when an external monitor (or TV) is connected to the computer.
	Touchpad	Turns the Touchpad function on or off. When using an external mouse only, you can turn the Touchpad off.
	Mute	Press this button to turn the audio on or off.
 	Volume Control	Controls the volume.
	Silent Mode	Reduces the Fan noise so that users can use the computer without hearing noise.
	Wireless network	You can turn the wireless network device on or off. (Only for models with a wireless network device.)

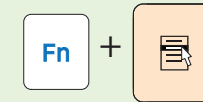
Numeric Key (For 15.6 inch models)

If you press the **Num Lock** key, you can use the numeric keys.



Other Function Keys (Optional)

Performs the right-click mouse function (touchpad).



- If you press the **Fn Lock** key, you can use the hot key functions without pressing the **Fn** key.



- **If the Fn Lock function is On:** You can use the hot key functions without pressing the Fn key.
- **If the Fn Lock function is Off:** You can use a hot key function by pressing the Fn key + the hot key at the same time.



If the hot keys do not work properly, you have to install the **Easy Settings**.

The touchpad provides the same function as a mouse and the left and right buttons of the touchpad plays the role of the left and right buttons of a mouse.

To use the touchpad, the touchpad driver is required.

A built-in Windows driver and a driver provided by the manufacturer are provided. For a better performance, using the driver provided by the touchpad manufacturer is recommended.

The driver provided by the touchpad manufacturer is already installed in this product by default when you purchase this product. **When you reinstall Windows or change the operating system, using the driver provided by the corresponding manufacturer is recommended.**



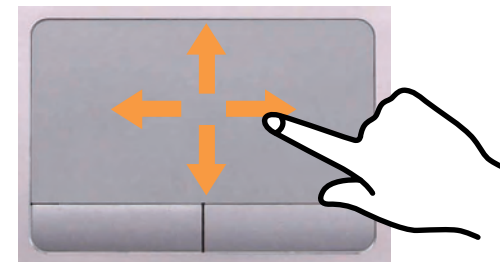
- Touch the touchpad with your fingers only. Anything other than your fingers, such as a ball-point pen, will not be recognized by the touchpad.
- If you touch the Touchpad or press the Touchpad buttons while booting up, the Windows boot time may be extended.
- Checking the touchpad manufacturer Click the **Start > Control Panel > Hardware and Sound > Mouse > Hardware** tab and check the device (E.g. Elan, Synaptics, etc.).
- The Windows driver provides basic touchpad functions (moving the pointer, clicking, etc.) but the gesture function is not supported.

Basic Touchpad Functions

Moving the cursor on the screen

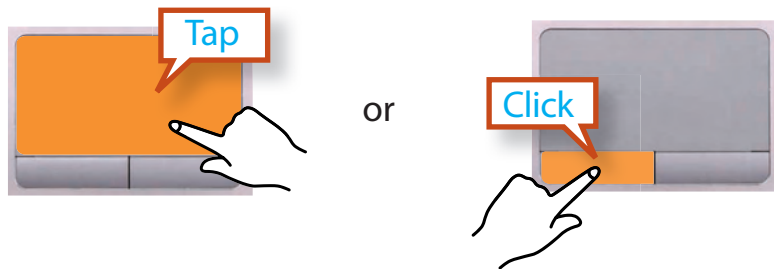
Place your finger on the touchpad slightly and move your finger.

The mouse cursor will move accordingly. Move your finger in the direction you wish to move the cursor.



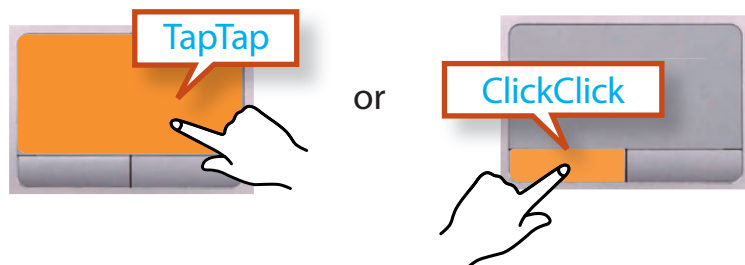
Click Function

Place a finger on the touchpad and click on an item once.
Alternatively, press the left button once quickly and release it.



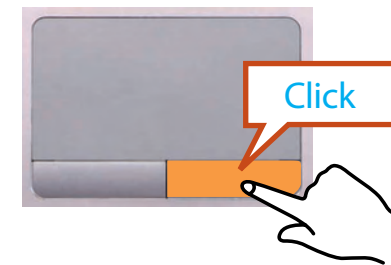
Double-Click Function

Put your finger on the touchpad and quickly tap twice with your finger on an item you want.
Alternatively, press the left touchpad button twice quickly.



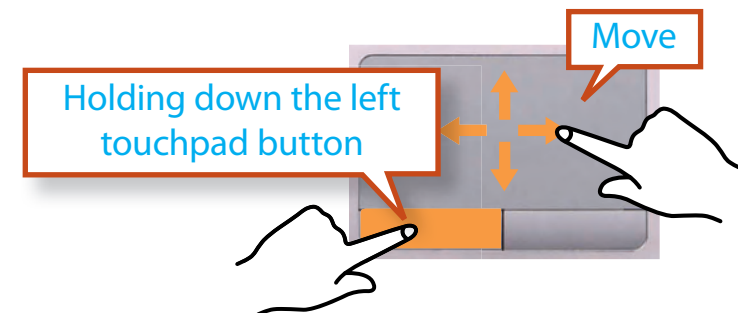
Right Button Function

This corresponds to clicking the right mouse button.
Press the right touchpad button once. The corresponding pop-up menu appears.



Drag Function

Dragging refers to moving an item to another place after selecting it.
Press and hold down the left touchpad button over an item you want to drag and move the item to the new location.



The Gesture Function of the Touchpad (Optional)



- The Touchpad Gesture function may not be provided and the version of the function may differ depending on the model. Some usage procedures may differ depending on the version.
- For detailed usage procedures, refer to the description in the Touchpad Settings window.
- Since these descriptions are written on the basis of the latest operating system, Windows 7, some of the content and the figures of the descriptions may differ depending on the operating system. Since the procedures for other Windows operating systems are similar, use the computer referring to these descriptions.

Using the Touchpad, you can use the following additional Gesture functions.

- **Scroll function**
- **Zoom functions**
- **Page Move Function**

Configuring the Gesture Function

Some gesture functions may not be configured.

In this case, you can configure them using the following path.

1

► When using the Elan driver

Click the **Start > Control Panel > Hardware and Sound > Mouse > ELAN > Options** button.

► When using the Synaptics driver

Click the **Start > Control Panel > Hardware and Sound > Mouse > Device Settings** tab > **Settings** button.

2

The Touchpad Settings window appears. Click over the corresponding item to select the item in the **Select an item** and click **OK**.

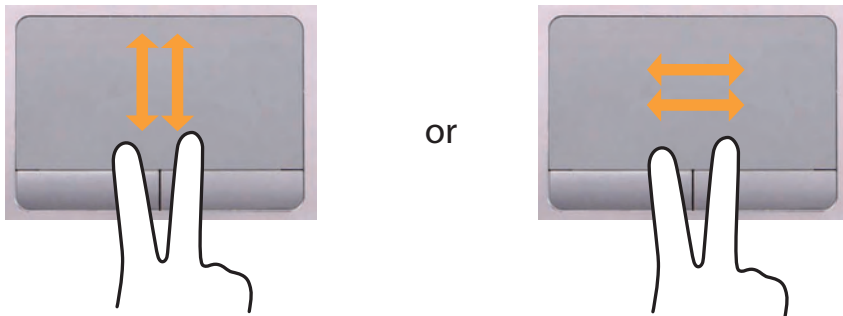


To cancel the Gesture function, unselect the corresponding item in the Touchpad Settings window and click **OK**.

The Scroll Function

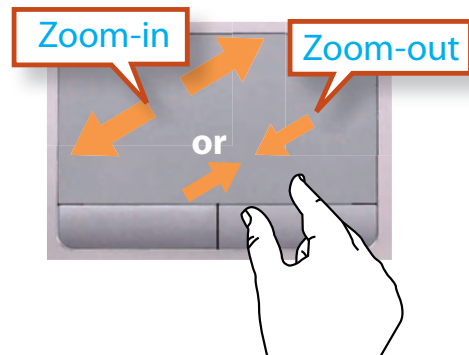
This function is the same as the scroll area of the Touchpad.

If you place two fingers over the Touchpad and move them up, down, left or right, the screen is scrolled up, down, left or right accordingly.



Zoom Functions

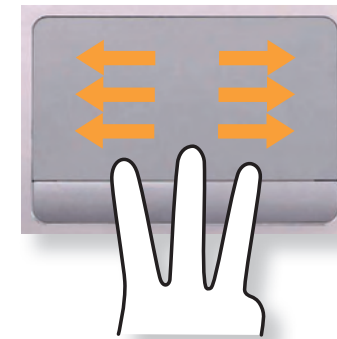
If you place two fingers over the Touchpad together or apart, the current image or text is zoomed in or out.



Page Move Function

You can move to the previous or next page when you are looking at a photo or surfing the Internet.

For example, if you lightly brush three fingers to the left while you are looking at a web site, you will return to the previous page.



Setting the Touchpad Sensitivity

If the touchpad reacts too sensitively or the pointer moves unintentionally, please adjust the touchpad pointer speed and sensitivity.

Adjusting the Touchpad Pointer Speed

Click **Start > Control Panel > Hardware and Sound > Mouse > Pointer Options** and then adjust the pointer speed.

Adjusting the Touchpad Palm Detection Function

The palm detection function is to avoid malfunctions when the palm touches the touchpad by mistake.

 This function is provided by the touchpad driver provided by the manufacturer.



► When using the Elan driver

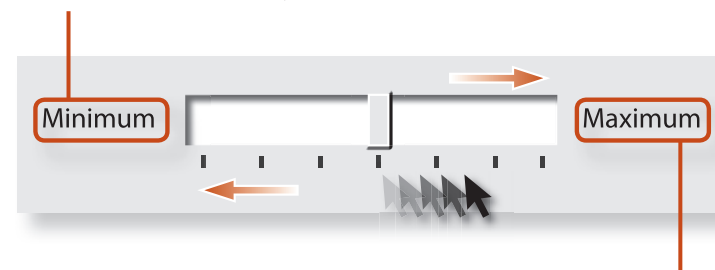
Click **Start > Control Panel > Hardware and Sound > Mouse > ELAN > Options > PalmTracking** and then adjust the sensitivity.

► When using the Synaptics driver

Click **Start > Control Panel > Hardware and Sound > Mouse > Device Settings > Settings > SmartSense** and then adjust the sensitivity.

When the touchpad pointer does not move smoothly:

Slide the bar appropriately in the direction of Minimum.



When the touchpad pointer moves unintentionally (excessively):

Slide the bar appropriately in the direction of Maximum.

Touchpad On/Off Function

Locking with shortcut keys

If you want to use the mouse only without using the touchpad, you can turn the touchpad off.

To lock the touchpad function, press the  +  keys.



You can set the touchpad and touchpad button settings in the tabs that appear when clicking **Start > Control Panel > Hardware and Sound > Mouse**.

Auto-locking when connecting USB mouse

► When using the Elan driver

Click **Start > Control Panel > Hardware and Sound > Mouse > ELAN**, and check the **Disable When external USB mouse plug in** option. This will turn the touchpad off when a USB mouse is connected.

► When using the Synaptics driver

Click **Start > Control Panel > Hardware and Sound > Mouse > Device Settings**, and check the **Disable internal pointing device when external USB pointing device is attached** in option. This will turn the touchpad off when a USB mouse is connected.



This auto-locking function is not provided for some models.

An optical disk drive is optional and may differ depending on your computer model. For detailed specifications, refer to the catalogue.

- ! Do not insert a cracked or scratched CD. Otherwise, the CD may break and damage the optical disk drive when the CD rotates at a high speed.
- When you clean a CD or DVD title, wipe with a soft cloth from inside to outside.
- Insert a Mini CD into the center of the CD drive.
- The figures used for the description are of a representative model. Therefore the figures may differ from the real ones.
- Using a CD that is not in the shape of a circle is not recommended.

Using CD Drive (For 14 inch models)

- 1 Press the **Eject** button of the optical disk drive at the side of the computer.



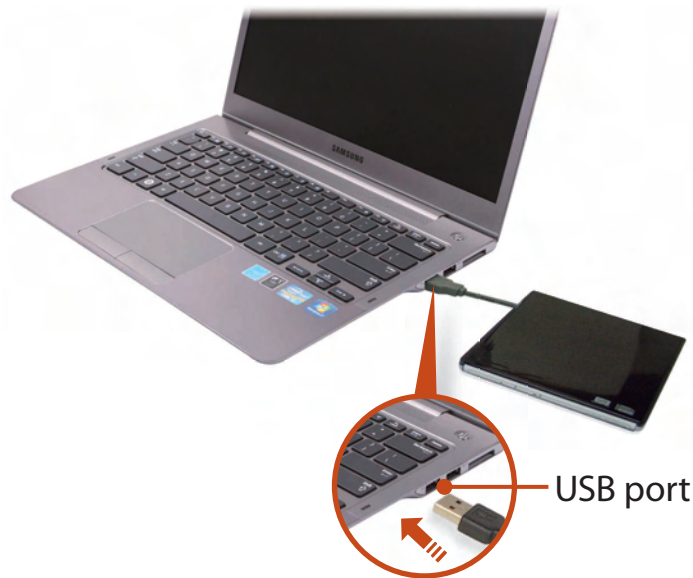
- 2 When the CD tray opens, insert a CD or DVD and push the tray in until it clicks.



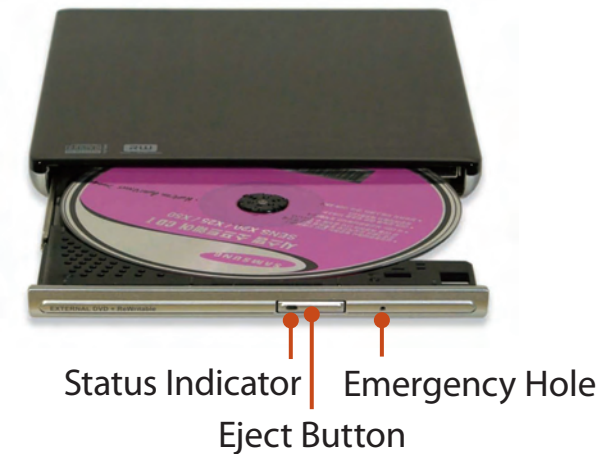
- 3 Push the CD tray inward until it clicks.
The CD drive status indicator is turned on.

Using External type CD Drive (For 13.3 inch models, to be purchased)

Connect the CD drive to the **USB port**.



- 1 Press the **Eject** button of the CD drive.



- 2 When the CD tray opens, insert a CD or DVD and push the tray in until it clicks.
- 3 Push the CD tray inward until it clicks.
The CD drive status indicator is turned on.



- A CD drive's reading and writing speed may differ depending on the condition and type of the media.
- To eject a CD when the CD drive does not work or the computer is off, place the end of a paper clip () into the Emergency Hole until the CD tray is ejected.

Using the multi card slot, you can read and write data to cards.

You can use a card as a removable disk and conveniently exchange data with digital devices such as a digital camera, digital camcorder, MP3, etc..



- Supported Cards : SD Card, SDHC Card, SDXC Card
- You have to additionally purchase a multi card with the necessary capacity depending on your requirements.
- You can use a multi card just like any data storage device. A copyright protection function is not supported.
- Since you can lose a card when moving the computer, keep the card separately.
- The figures used for the description are of a representative model. Therefore the figures may differ from the real ones.
- If a slot protection dummy card is inserted into your computer, remove the dummy card before using the computer.
- These descriptions are written based on Windows 7, the latest operating system. Therefore, some descriptions and figures may differ from your operating system. But as the usage is similar to other Windows operating systems, you can use these descriptions for reference.

Using the card

- 1 Insert the card into the multi card slot in the indicated direction.

► For 13.3 inch models



► For 14 inch models

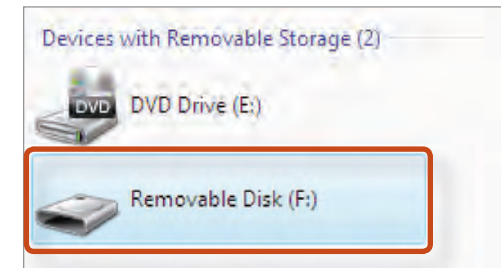


- 2** The card drive appears. Click **Open folder and view files**.
If the window does not appear, click **Start > Computer**.



If a window asking to scan and change appears, click **Continue Without Scanning**. This will proceed to Step 2 above.

- 3** You can save, move and delete data by double-clicking the corresponding drive.
You can only use the card after formatting it.



The device name of the card drive may differ depending on your computer model.

Using a Mini SD

Since the above cards are too small, you cannot insert the cards into the slot directly.

Insert the card into the dedicated adapter (available from most electronic retailers) and then insert the adapter into the multi card slot.

To remove a memory card

Take hold of the end of the card and remove the card.

To format a memory card

When using the memory card for the first time, you must format the card before using it.

 Formatting a card deletes all data saved on the card. If the card includes data, backup the data before formatting it.

- 1 Click **Start > Computer**.
- 2 Right-click over a card drive with the touchpad and select **Format**.
- 3 Click **Start** to the formatting.



- To use a card to exchange data with a digital device such as a digital camera, formatting the data using the digital device is recommended.
- When you try to use a card, which is formatted in the computer, in another digital device, you may have to format the card again in the device.
- You cannot format, write or delete data from a SD, or SDHC card with a write protection tab when it is in the Lock position.
- Inserting and removing a memory card repeatedly may damage the memory card.

If you connect an external display device such as a monitor, TV, projector, etc., you can view the picture on the wider screen of the external device when you give a presentation or watch a video or movie.

The computer provides an analog monitor port (RGB) and a digital video/audio port (HDMI).

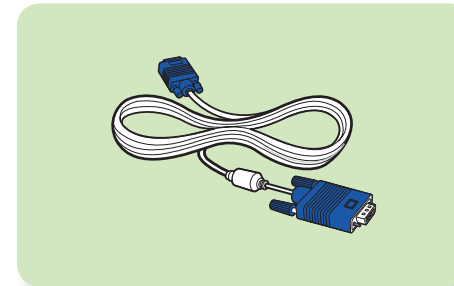
The visual quality is sharper when a display device is connected through the HDMI port rather than the analog monitor port (RGB) port. Therefore, when multiple ports are supported, connect a display device to a port that provides the better visual quality.



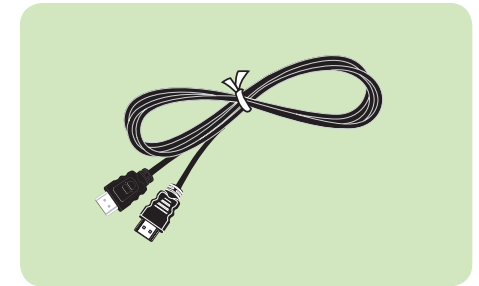
- Before you start, check the port and cable of the external display device and then connect the display device to the computer.
- Due to restrictions of the operating system the DualView function is not supported for Windows 7 Starter.

About the connection cable

Users should additionally purchase the necessary connection cables.



Analog Monitor (RGB) Cable



HDMI Cable

Connecting to the monitor port (Optional)

You can experience a wider screen by connecting the computer to a monitor, TV or projector with a monitor port.

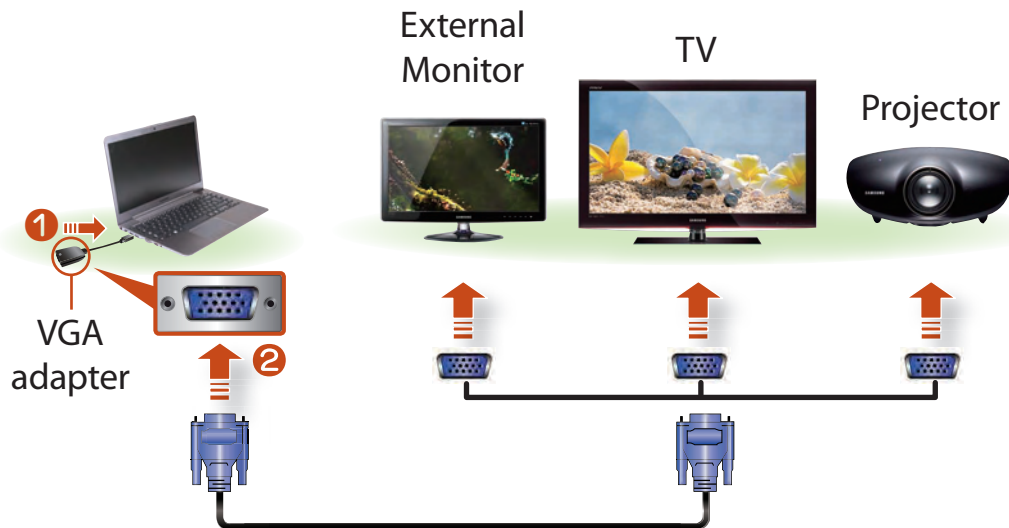
You can give better presentations by connecting the computer to a projector.



The VGA adapter is optional and to be purchased.

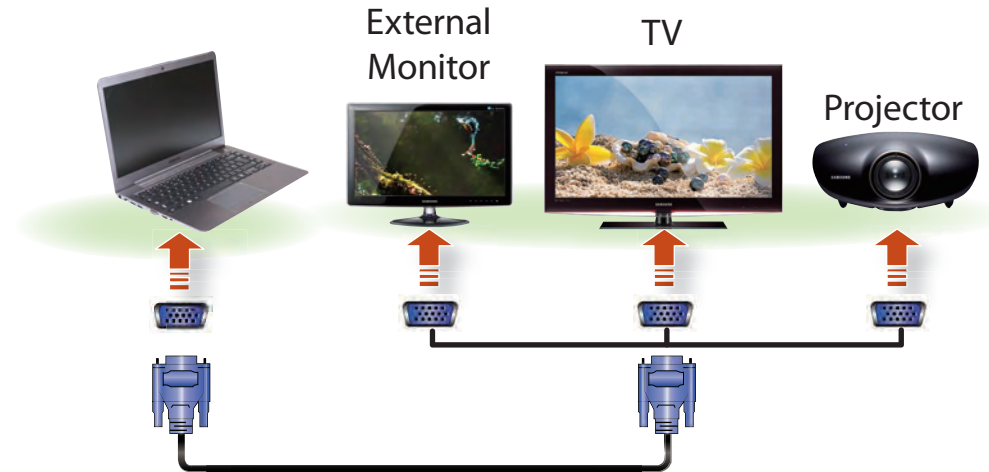
1 ► For 13.3 inch models

Connect the VGA adapter to the monitor port of the computer. Connect the VGA cable (15-pin) to the connected VGA adapter and then connect the other end of the VGA cable to the VGA port of the monitor or the TV.



► For 14 inch models

Connect the RGB port of the computer and the port of the monitor or TV with the monitor cable (15 pin).



2 Connect the power cord of the connected monitor, TV or projector and turn the power on.

3 Press the **Fn** + **F4** key combination once. Then the setting screen appears where you can select the monitor mode.

Since pressing the **F4** key while holding down the **Fn** key changes the selection, select a display device.

LCD	
CRT	
LCD+CRT Clone	
LCD+CRT Dual View	



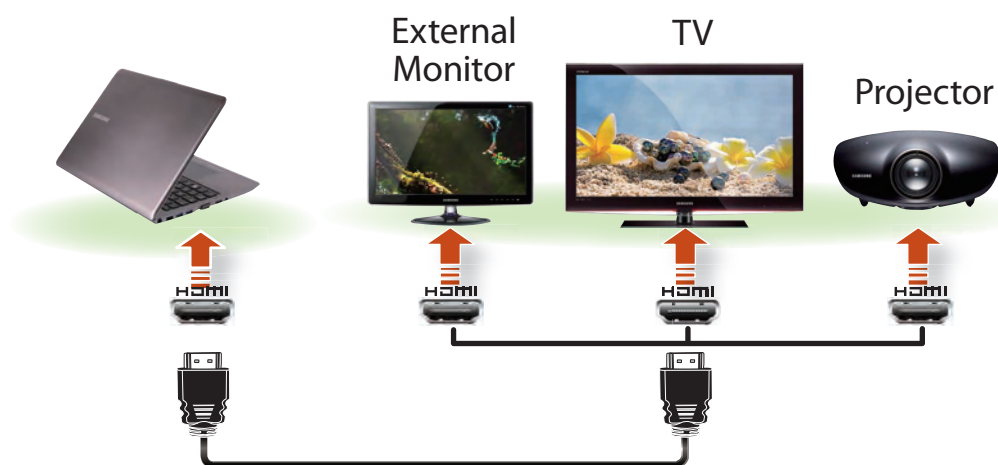
- If the screen is not switched even if you press the **Fn** + **F4** key combination, you have to install the **Easy Settings** program.
- **Alternatively, to set up dual view:**
Open the **Display Settings** window in the Control Panel, select **Monitor 2** and select the **Expand to fit to this monitor** checkbox to set dual view. For more detailed information, refer to the Windows online help.

Connecting through the HDMI port (Optional)

By connecting the computer to a TV with a HDMI port, you can enjoy both a high visual quality and a high sound quality.

After connecting a TV through HDMI, you have to configure the screen and sound.

- 1 Connect the HDMI cable to the HDMI port of the TV.



- This is only supported for models that support a TV output port (HDMI).
- When a TV provides more than one HDMI port, connect the computer to the **DVI IN** port.
- When connecting the computer to a TV, switch the external input mode of the TV to **HDMI**.

- 2 Press the **Fn** + **F4** key combination once. Then the setting screen appears where you can select the monitor mode.

Since pressing the **F4** key while holding down the **Fn** key changes the selection, select a display device.

HDMI	
LCD+HDMI Clone	
LCD+HDMI Dual View	

- External Monitor / TV is not supported in the DOS Command Prompt window.
- Simultaneous output to all 3 (LCD + CRT + HDMI) is not supported.
- If the screen is not switched even if you press the **Fn** + **F4** key combination, you have to install the **Easy Settings** program.

Setting up HDMI TV video (Optional)

If the Desktop screen displayed on the TV does not fit to the TV screen, configure it as follows depending on the graphics card.



- You can view the graphics card type by selecting **Device Manager > Display adapters** and then clicking the + symbol.
- The screen images and terms may differ from actual product depending on the computer model and driver version.

► For Intel graphics cards

1 Right-click over the Desktop and select **Graphics Properties**.



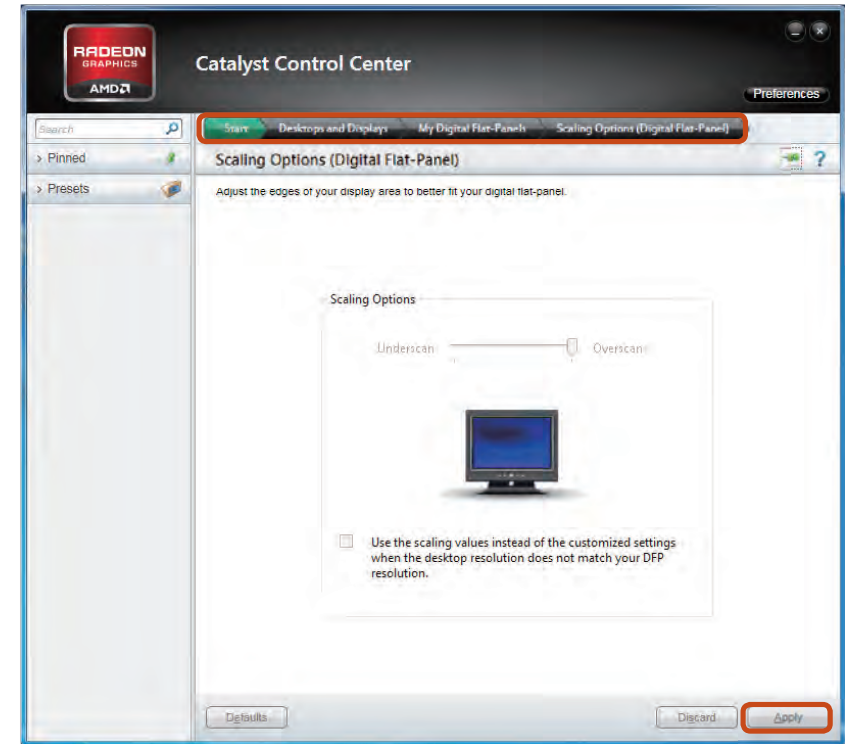
If a window appears where you can select the mode, select **Basic Mode** and click **OK**.

2 Click **Display > General Settings**, select **Customize Aspect Ratio** in the **Scaling** field, fit the Desktop to the TV screen and click **OK**.



► For AMD graphics cards

- 1 Right-click on the Desktop and select **Graphics Properties > Desktops and Displays > My Digital Flat-Panels > Scaling Options (Digital Flat-Panel)**.
- 2 Adjust the size to the edges of the TV screen using the resize bar and click **Apply**.



Setting up HDMI TV audio (Optional)

You can configure the sound of the computer to be played through the HDMI TV.

You have to configure the sound device in the Control Panel whenever you connect the HDMI TV in order to hear sound from the computer on the TV.



The screen images and terms may differ from actual product depending on the computer model.

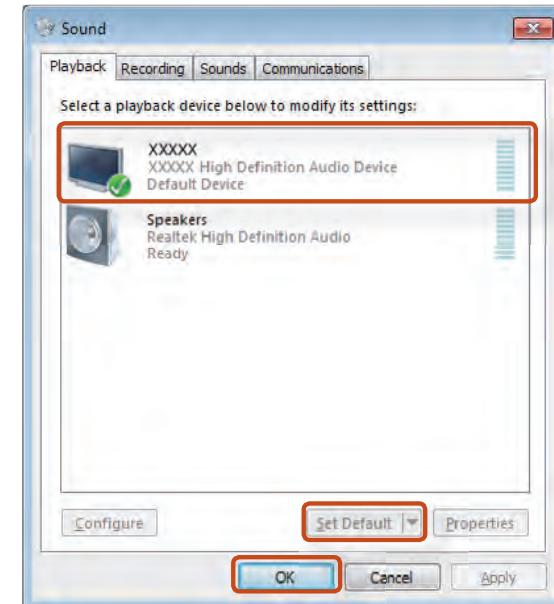
1

Right-click over the **Volume** Control icon  in the notification area at the bottom right of the Desktop and select **Playback Devices**.

(Alternatively, click the **Control Panel > Hardware and Sound > Sound**.)

2

Change the setting to Digital Audio (HDMI), HDMI Device or Digital Output Device, click **Set Default** and click **OK**.



HDMI Output Device may not appear on the playback device list depending on the computer model.

In this case, turn on the TV, connect the TV to the computer using a HDMI cable and then switch to HDMI or LCD+HDMI Clone or LCD+HDMI DualView mode using the Shortcut

Key( + ).



To listen to sound on the computer after disconnecting the HDMI TV, you have to set the Playback Device to Speakers.

Using AMD Graphics Effectively (optional)

PowerXpress is Switchable Graphics technology that selectively enables either the internal or external graphics chipset depending on the program to extend the battery life time while maintaining the graphics performance.

This technology uses the internal graphics by default to reduce battery consumption and switches to the external graphics when the user uses some program functions that require a high graphics performance such as games and playing videos.



- This description is only for Windows 7 and models with AMD PowerXpress technology.
- This function is not supported for Windows 7 Starter.
- If Windows XP is installed, you can only use Internal Graphics.

► Adding programs for PowerXpress graphics technology

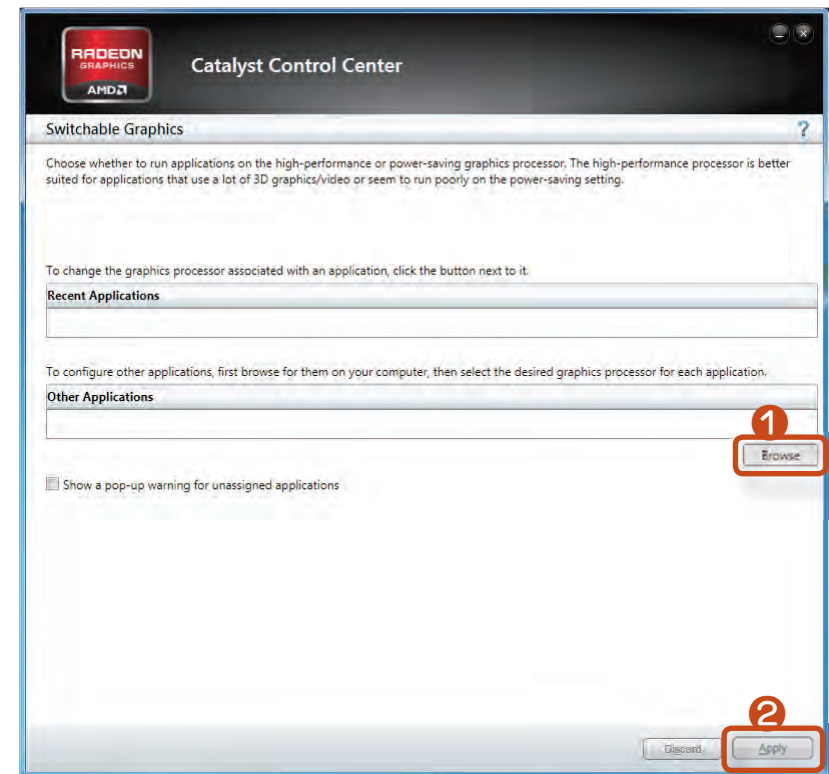
You have to register the program to run some functions of a program using the external graphics chipset.

Some programs are pre-registered. To register more programs, complete the following steps.



- Unregistered programs will run using the internal graphics chipset.
- You can register executable files (EXE) only.

- 1 Right-click on the Desktop and select **Configure Switchable Graphics** from the popup menu.
- 2 Click the **Browse** button and register the software and click the **Apply** button.



- 3 From now on some of the functions of the registered program that require a high graphics performance will run with the external graphics chipset without additional configuration.

Using NVIDIA graphics more efficiently (optional)

NVIDIA Optimus is a function that enables automatic selection and usage of the internal or external graphics chipsets depending on the currently running software.

For example, the internal graphics chipset can be used for Internet surfing or word processing to minimize battery power consumption and the high-performance external graphics graphic chipset can be used for gaming or video processing to deliver a more realistic experience.



- The NVIDIA Optimus model supports Windows 7 only.
- This function is only available in models that support the NVIDIA Optimus technology.

Registering programs to be executed by the external graphics chipset

To run a program using the external graphics graphic chipset, you have to register the program in the NVIDIA Panel.

Some programs are pre-registered. To register more programs (e.g. 3D games, etc.), complete the following steps.

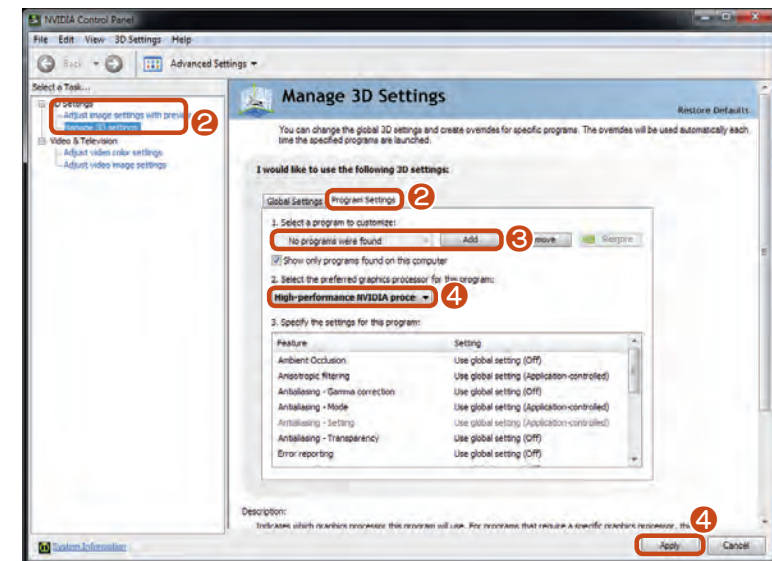
- 1 Right-click over the Desktop and select **NVIDIA Panel**.
- 2 Select **3D Settings > Manage 3D settings** in the left pane and select the **Program Settings** tab.

- 3 In the **Select a program to customize(S)** field, click the **Add** button to register the software.



You can register executable files (EXE) only.

- 4 In the **Select the preferred graphics processor for this program (O)** field, select **High-performance NVIDIA processor** and click the **Apply** button.



- 5 The program has been registered. When you run the registered program, the program is executed using the external graphics chipset without requiring additional configuration.

You can save a file stored on a device onto the computer by connecting a digital device such as a camera, camcorder or mobile phone to the computer and using the file management functions.

Connecting and using a camera or camcorder

If a digital device such as a camera or camcorder is connected with the computer, it is recognized as a removable disk so that you can copy or move the files on the device.

- 1 Connect the USB port of the notebook computer and the USB port of the digital device such as a camera using the USB cable.

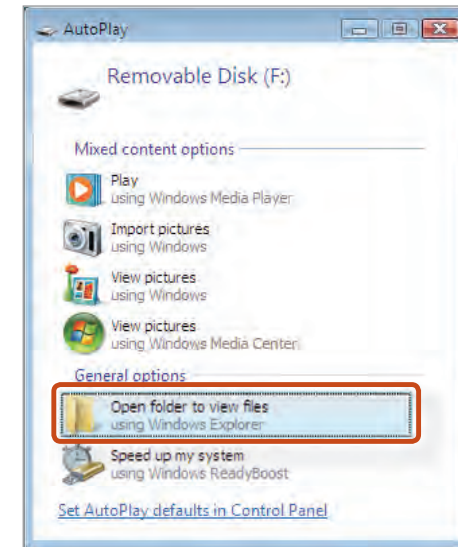


- Both the computer and the digital device must be turned on.
- You have to additionally purchase the USB cable necessary to connect the computer and the device.



- 2 The **Auto run** window appears. Click **Open folder and view files**.

If the window does not appear, click **Start > Computer**.



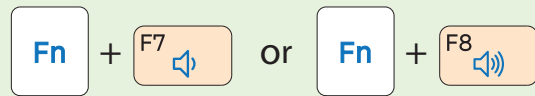
- 3 Double-click the corresponding drive. You can then save, move or delete data.



The device name of the card drive may differ depending on the model.

You can adjust the volume using the keyboard and the volume control program.

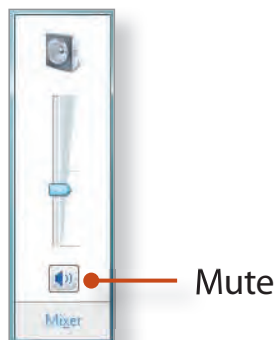
Adjusting the Volume using the Keyboard



Alternatively, press the **Fn** + **F6** key combination to turn the volume on or off.

Adjusting the Volume using the Volume Adjustment Program

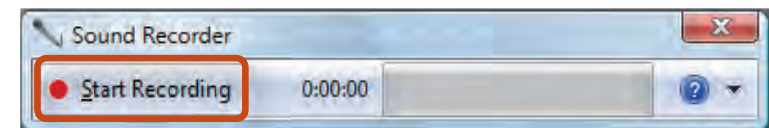
Click the Volume icon  on the taskbar and slide the volume control bar to adjust the volume.



Using the Sound Recorder

The procedures to record sound using the Windows Recorder are described below.

- 1 Connect a microphone to the microphone jack.
You can also use the internal MIC.
- 2 Right-click over the **Volume** icon  on the taskbar and select **Recording Device**.
- 3 Check if the microphone is set as the default recording device.
If this is the case, it is already set as the default device. If not, right-click over the microphone and select **Set default**.
- 4 Click **Start > All Programs > Accessories > Sound Recorder** and click **Start recording** to start a recording.



Using SoundAlive (Optional)

The SoundAlive function enables you to experience more stereophonic sound using stereo speakers.



- SoundAlive is only supported in Windows 7.
- The software programs provider may vary, depending on your computer model.
- In addition, some pictures may differ from actual product depending on the computer model and software version.

- 1 Right-click over the **Volume Control** icon  in the notification area at the bottom right of the Desktop and select **Playback Devices**. (Alternatively, click the **Control Panel > Hardware and Sound > Sound**.)
- 2 Right-click over the **Speakers** and select **Properties**.
- 3 Select the **SoundAlive** tab and select one of the modes.

► Basic Mode

Music	Select this mode to listen to music.
Movie	Select this mode to watch a movie.
Speech	Emphasizes voice over other sounds.
Silver	Silver mode is for people who have difficulty in hearing.
3D Depth Sound Mode	Provides 3D depth perception for movie and game sounds.

► Advanced Mode

Finely tuned 25 presets are arranged on a square according to their relative sound characteristics.

► User Mode

You can control a variety of sound effects.

A wired network is a network environment used for a company network or broadband internet connection at home.



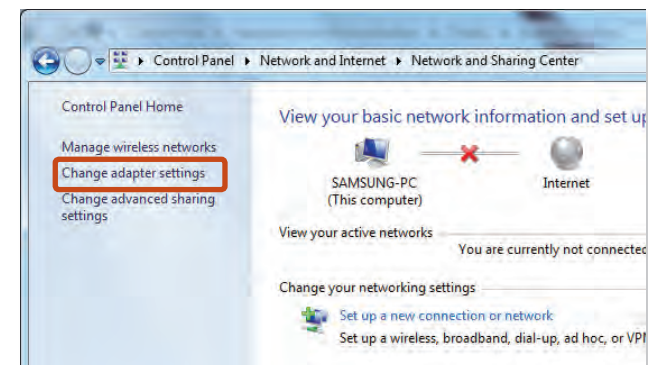
- Since these descriptions are written on the basis of the latest operating system, Windows 7, some of the content and the figures of the descriptions may differ depending on the operating system. Since the procedures for other Windows operating systems are similar, use the computer referring to these descriptions.
- The figures used for the description are of a representative model. Therefore the figures may differ from the real ones.

Connecting to a Wired LAN through Windows

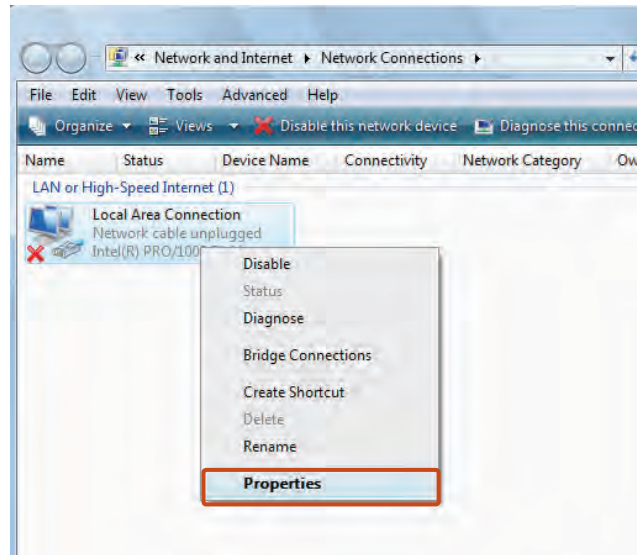
- 1 Open the wired LAN port cover and connect the LAN cable to the LAN port.



- 2 Click **Start > Control Panel > Network and Internet > Network and Sharing Center** and click on **Change adapter settings** in the left menu pane.

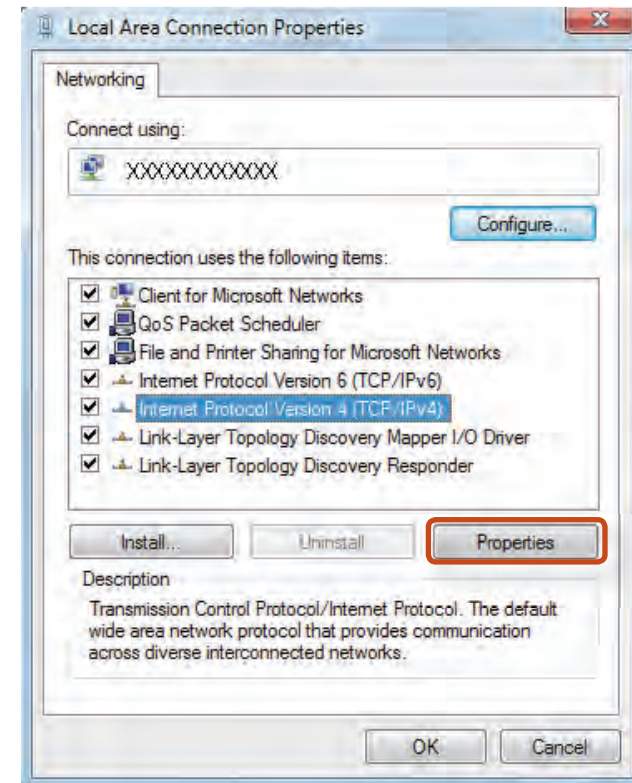


- 3 Select **Local Area Connection** and click the right button of the touch pad and select **Properties**.



The LAN Device name may differ depending on your computer's Network Device.

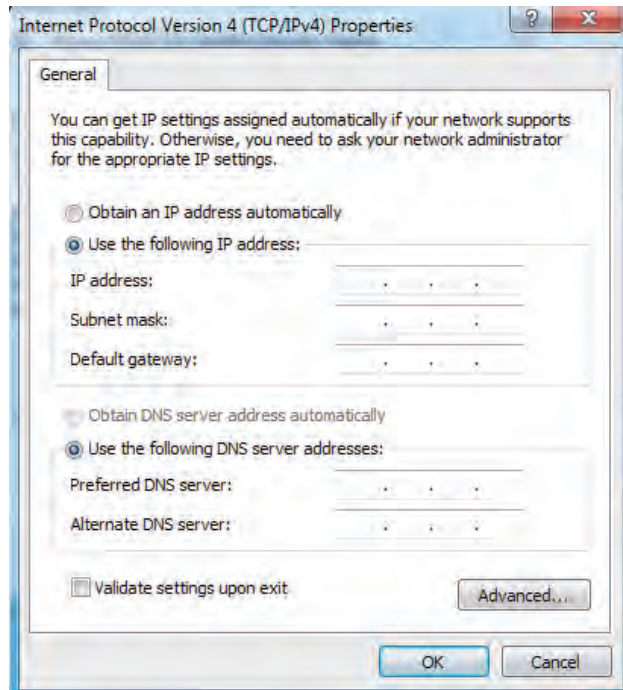
- 4 Select **Internet Protocol Version 4(TCP/IPv4)** from the list of Network Components and click **Properties**.



- The Network Component name may differ depending on the Operating System Installed.
- To add a network component, click Install in the screen shown in the figure above. You can add clients, services, and protocols.

5 Configure the IP settings.

When using DHCP, select **Obtain an IP address automatically**. To use a static IP address, select **Use the following IP address**, and set the IP address manually.



When not using DHCP, ask your network administrator for the IP address.

6 When you have completed the settings, click the **OK** button. The network settings have been completed.

Using the WOL (Wake On LAN) function

<Wake On LAN> is a function that activates the system from Sleep mode when a signal (such as a ping or magic packet command) arrives over the network (wired LAN).

- 1 Click **Start > Control Panel > Network and Internet > Network and Sharing Center** and click on **Change adapter settings** in the left menu pane.
- 2 Right-click on the **Local Area Connection** and select **Properties**.

3 Click **Configure > Power Management** tab. **Select Allow this device to bring the computer out of standby**, then click **OK**. Restart the system.

- If the system wakes up from Sleep mode even though there is no received signal, use the system after disabling the <Wake On LAN> function.
- The LAN LED may not be turned off if System is shutdown without disabling the WOL (Wake on LAN) option.
- Connecting a wired LAN while using a wireless LAN may not activate the <Wake On LAN> function. Set the Wireless LAN to **Disable** to use the <Wake On LAN> function.
- <Wake On LAN> feature may not work while using Hybrid power saving feature.



For Win7, Wake On LAN is not supported by Ping.



When connected to a 100Mbps/1Gbps wired LAN and the computer exits Sleep/hibernation mode, a message appears informing you of a connection to a 10Mbps/100Mbps wired LAN. This happens because when the computer exits standby/hibernate mode, restoring the network takes about 3 seconds. When the network is restored, it operates at 100Mbps/1Gbps.

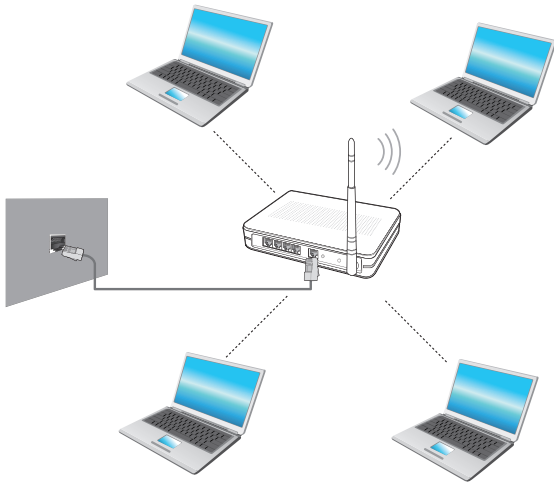


When system is running on battery, some time it takes about 20sec after inserting LAN cable to be able to connect to internet. This symptom happen as a result of power saving feature to reduce battery consumption.



When system is running on battery, the Wired LAN speed is decreased automatically to reduce battery consumption. In such case, a 1Gbps /100Mbps LAN would function at 100Mbps/10Mbps speed.

A wireless network (Wireless LAN) environment is a network environment that enables communicating between multiple computers at home or a small-size office through wireless LAN devices.



- The screen figures and terms may differ depending on the model.
- Depending on the program version, some functions may not be provided or different functions may be provided.
- 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 your wireless LAN device model.
- If the wireless LAN is turned off, press the **Fn** + **F12** key combination to turn it **on**.



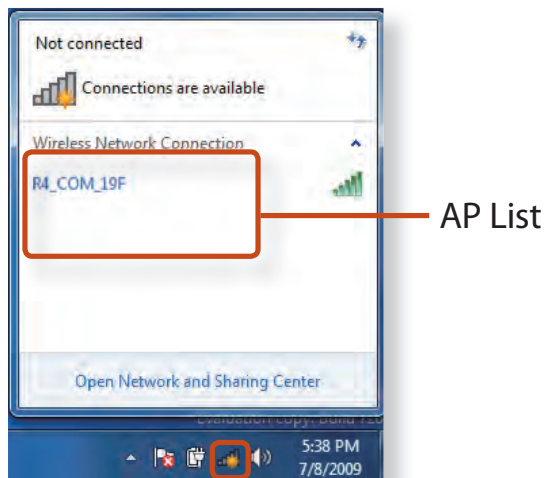
What is an Access Point (AP)?

An AP is a network device that bridges wired and wireless LANs, and corresponds to a wireless hub in a wired network. You can connect multiple wireless LAN installed computers to an AP.

Connecting to a Wireless LAN through Windows

If there is an AP, you can connect to the Internet via the AP using the Wireless LAN connection method provided by Windows.

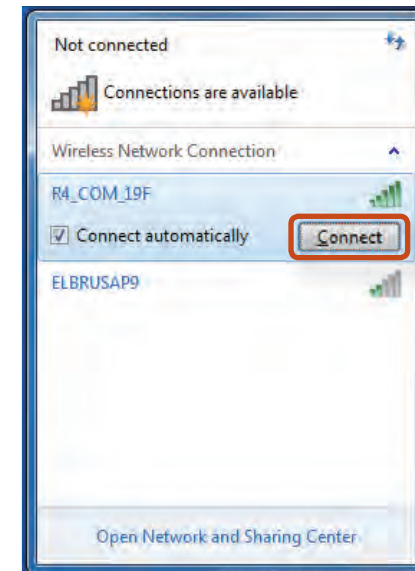
- 1 If you click the **Network Connections**  icon in the system tray, a list of available APs appears. If you select an AP to connect to, the **Connect** button appears.



- 2 Click **Connect**.

If a network key is set for the AP, enter the network key and then click **Connect**.

 For the network key, please ask your network administrator.



- 3 When **Connected** to the AP is displayed, click the **Close** button.

You can access the network.

Normal Wireless LAN Status

If the wireless LAN icon is displayed in the system tray of the Taskbar, it indicates that the computer is connected to the Internet properly (see below).



Abnormal Wireless LAN Status

When the wireless LAN is not connected

If the wireless LAN icon is displayed with an "X" in the system tray of the Taskbar, it indicates that the wireless LAN device is turned off or that there are no available APs. Or the wireless LAN is disconnected.



If the wireless LAN is turned off, press the **Fn** + **F12** key combination to turn it on.



When you are not connected to the Internet

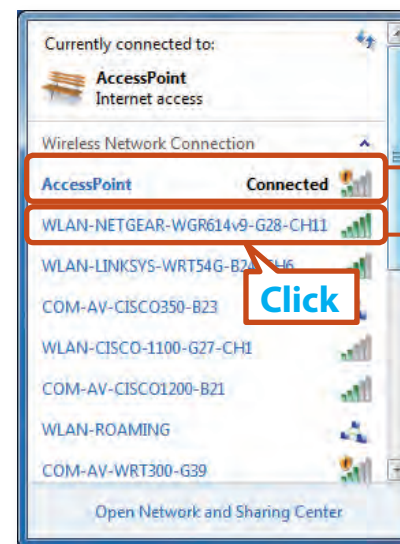
This is indicated by the wireless LAN icon  in the system tray of the Taskbar. In this case, you have to check the IP address settings.

Please contact your network administrator and reconfigure the IP address.



When APs are found but your computer is not connected to the Internet

This is the case when an AP with a weak signal has been set to a high priority. Connect to an AP with a strong signal by clicking it.



The currently connected AP.

The signal strength is low.

An AP with a strong signal strength

A TPM (Trusted Platform Module) security device is a security solution that protects your personal information by saving the user authentication data on the TPM chip installed on the computer.

To use the TPM security device, you have to initialize the TPM chip in the BIOS Setup, initialize the TPM program, and then register the user.



- This function is only supported for models with TPM (security chip).
- For more information, refer to the online help for the program.
- The program version described in this manual is subject to change and the screenshots and terms used in this manual may differ from the actual product.

Setting Up the TPM



To use the TPM function, you have to complete the following steps.

1

Initializing the TPM chip

Initializes the authentication information saved on the TPM chip.

2

Installing the TPM program

Installs the TPM program.

3

Registering the TPM program

Registers the TPM program.

If you complete the steps above, you can use the TPM function.

Initializing the TPM chip

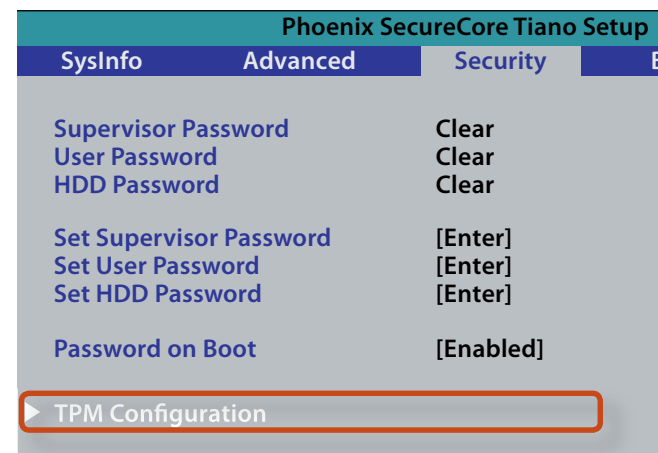
When you use the TPM function for the first time or you want to register the user again, you have to initialize the TPM chip.

- ! Initializing the TPM chip erases all authentication information saved on the TPM chip. Any decision to initialize must be taken carefully.
- To initialize the TPM chip again while the TPM function is in use, you have to decrypt any existing files and folders encrypted by the TPM function first. Otherwise, you will not be able to access the files and folders after re-initialization.

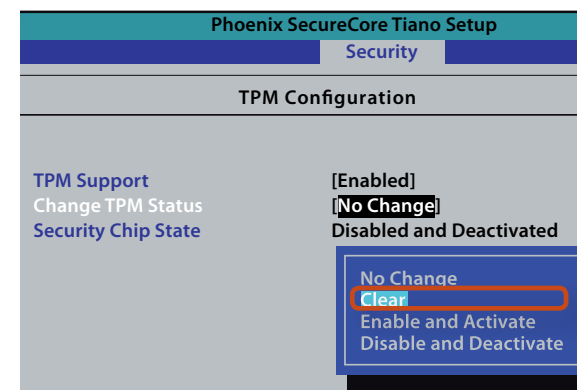
1 Restart the computer.

When the Samsung logo screen appears, press the **F2** key repeatedly.

2 If the BIOS screen appears, select the **Security > TPM Configuration** item and press **Enter**.



3 Set the **TPM Support** item to **Enabled** and set the **Change TPM Status** to **Clear**.



4 Press the **F10** key to save the changes.