SAMSUNG

SAMSUNG *Q1*
User's Guide

DIGITall FREEDOM

Product Features

Small but Strong UMPC (Ultra Mobile PC)

- Intel Celeron M ULV Processor
- 256MB~Up To 1GB DDR2 Memory
- 1.8", 20~60GB High-Capacity Hard Disk Drive

7" WVGA TFT LCD

- Basic Resolution of 800x480 Pixels, Maximum Resolution of 2048x1536 Pixels (when an external display is connected)
- Auto Scaler (Automatic Resolution Adjustment) Function to Support High Resolution Output
- Easy-to-Use Touch Screen usable with your fingers.

Microsoft Windows XP Tablet PC Edition

- Resolve PDA and Pocket PC restrictions
- Usability Similar to a Normal PC with Windows

Powerful Multimedia Functions

- Various Multimedia Programs Such as AVStation etc.
- 2 Built-in Array Microphones for Higher Audio Recording Quality SRS Surround Sound

Multiple Network Support

- Wired LAN, Wireless LAN, Bluetooth (Optional)
- Resolves Space Restrictions through the Wireless Communication Function

Compact, Light-Weight Design for Portability / Polished Design

- A mere 779g (Without the Bluetooth modules)
- High-Gloss Front Panel

Optional Accessories for Additional Convenience

- USB Data Cable Enabling Data Exchange with another PC.
- USB External ODD, Ultra-Slim USB External Keyboard
- Power Bank to Extend Use Time

Using Your Document

Congratulations on your purchase of a computer with the Windows® XP operating system. Whether you are new to using a portable computer or are an experienced user, this user's manual can help you get the most from your computer.

Manual Documentation Conventions

Some devices and software may differ from the descriptions in the User's guide or may not be supplied with the product depending on your computer model.

The actual appearance of the computer may differ from the pictures printed on the cover and in the User's guide.

This manual describes procedures with both the **Stylus Pen** and **Mouse**.
'**Single-Click**' in this manual also means '**Single-tap**' for the Stylus Pen.

Information Icons

Three icons and their associated messages appear in this manual. The information icons are placed before the step/information they apply to:

Warning
Indicates the possibility of personal injury.

Caution
Warns you of possible damage to equipment or data.

Note
Informs you of special circumstances.

Before you start !
Informs you of special requirements or limitations for use of item(s).

p.xx
Shows the page number you can refer to for more detailed information.

Contents

Chapter 5. Using Applications

Chapter 6. Settings

Chapter 7. Troubleshooting / Appendix

Safety Precautions

For security purposes and to prevent damage, please read the following safety instructions carefully.

Warning
Failing to follow the instructions marked with this symbol, may cause personal injury and even fatality.

Caution
Failing to follow the instructions marked with this symbol, may cause slight injury to yourself or damage to the product.

⚠ Warning

Installation Related

- **Do not install the product in places exposed to humidity such as bathrooms.**
  There is a danger of electric shock. Use the product within the operating conditions specified in the User Guide.

- **Keep the plastic bags out of reach of children.**
  There is a danger of suffocation.

Power Related

- **Do not touch the power cord when hands are wet.**
  There is a danger of electric shock.

- **Take care not to exceed the standard capacity (voltage/current) of a multi-tap or power outlet extension when using it for the product.**
  Electric leakage may cause electric shock or fire.

- **If the power cord or power outlet makes a noise, disconnect the power cord from the wall outlet and contact a service center.**
  There is a danger of electric shock or fire.

- **Do not use a damaged or loose power cord or power outlet.**
  There is a danger of electric shock or fire.

- **Plug the power cord into the power outlet firmly.**
  Failing to do so may cause fire.

- **Do not unplug the power cord by pulling the cable.**
  If the cord is damaged, this may cause electric shock.

- **Do not bend the power cord excessively or do not place a heavy object over the power cord. Keep the power cord out of reach of infants and pets.**
  If the cord is damaged, this may cause electric shock or fire.

- **Use a wall outlet or multi-tap with a grounding port.**
  Otherwise, there is a danger of electric shock.

- **If water or another substance flows into the power input jack or into the computer, disconnect the power cord and contact the service center.**
  Damage to the device within the computer may cause electric shock or fire.

- **Keep the power cord and power outlet clean.**
  There is a danger of fire.

Use Related

- **Do not place a cup or container filled with water or chemicals over or near the computer.**
  If water or chemicals flow into the computer, it may cause fire or electric shock.

- **When dropping the computer or the computer is broken, disconnect the power cord and contact a service center for a safety check.**
  If you use a broken computer, there is a danger of electric shock or fire.

- **Avoid direct sunlight when it is in an air-tight location such as inside a vehicle.**
  The computer may become deformed or fire may be caused by high temperatures.

- **Do not scratch the surface of the LCD with a sharp object such as a knife.**

(Hg) LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. For details see lamprecycle.org, eise.org, or call 1-800-Samsung.

Upgrade Related

- **Never disassemble the power supply or AC adapter.**
  There is a danger of electric shock.

- **Use only authorized parts (multi-bay, battery and memory) and never disassemble parts.**
  There is a danger of damage to the product, electric shock or fire.

Custody and Movement Related

- **Follow the instructions of the relevant location (e.g. airplane, hospital, etc.) when using a wireless communication device (wireless LAN, Bluetooth, etc.).**

⚠ Caution

Installation Related

- **Do not block the ports (hole), vents, etc. of the product and take care not to insert alien substances into the product.**

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

- **Do not place a heavy object over the product.**

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

Battery Use Related

- **Dispose of worn-out batteries properly.**

  Failing to do so may cause fire or an explosion.

  Follow the proper disposal method relevant to your region. The battery disposal method may differ depending on your location.

  Dispose of the used battery in the appropriate way.

- **Do not throw or disassemble the battery.**

  This may cause injury, fire or an explosion.

- **Use only batteries authorized by Samsung Electronics.**

  Otherwise, there is a danger of an explosion.

- **Avoid contact with metal objects such as car keys or clips when storing or carrying a battery.**

  Contact with a metal part may cause an excessive current and a high temperature. It may damage the battery or cause fire.

- **Change the battery according to the instructions in the manual.**

  Otherwise, the product might be damaged.

- **Do not place the battery into a fire or heat it.**

  There is a danger of fire or explosion.

Use Related

- **Do not place a candle, lighted cigar, etc. over the product.**
  There is a danger of fire.

- **Make sure to test the product for safety by a service engineer after repairing the product.**
  Using a repaired product without testing it for safety might cause electric shock or fire.

- **In case of lightning, immediately turn the system off and disconnect the power cord from the wall outlet.**
  There is a danger of electric shock or fire.

- **Connect only permitted devices to the connectors or ports of the computer.**
  Otherwise, it may cause electric shock or fire.

- **When using the computer for a long time, there may be an odd smell.**
  Ventilate the room frequently and use the computer carefully.

- **Do not press the Eject Button while the CD-ROM drive is operating.**
  You might lose data. The disk may suddenly eject and this may cause injury.

- **When using a walkie-talkie, please keep the distance between the walkie-talkie and the computer at least at 1m.**
  Since a walkie-talkie's transmission power is very high, this may cause a computer malfunction.

- **Avoid dropping the product while using it.**
  - Dropping the product may damage the product or cause data loss.
  - Take care not to drop the product when using the computer on the stand.

- **Do not touch the antenna and power outlet.**
  There is a danger of electric shock.

Upgrade Related

- **Take care when touching the product or parts.**
  The device may be damaged or cause injury.

- **Take care not to drop any computer part or device.**
  Dropping a device or part may cause injury or damage to the product.

- **Use parts authorized by Samsung Electronics only.**
  Otherwise, there is a danger of fire or damage to the product.

- **To connect a device that is not manufactured or authorized by Samsung Electronics, ask at a service center before connecting the device.**
  Otherwise, there is a danger of damage to the product.

Custody and Movement Related

- **When moving the product, turn the power off and separate all connected cables first.**

  Otherwise, the product might be damaged or users may trip over the cables.

- **Keep the Stylus Pen out of reach of children.**

  Children may injure themselves by swallowing it or damaging their eyes.

- **Use a computer cleansing solution when cleaning the product.**

  Using a cleansing solution or chemical that is not developed for a computer may damage the product.

- **Do not use or watch the computer while driving a vehicle.**

  This may cause a traffic accident. Concentrate on driving.

Avoiding Data Loss (HDD Management)

- **Take care to not damage the data on a hard disk drive.**
  - A hard disk drive is extremely sensitive to external impact that any external impact may cause data loss on the surface of the disk.
  - The company is not liable to any loss of user data due to a user's carelessness or any external impact.

- **Causes that may damage the data of a hard disk drive.**
  - The data may be lost when there is an external impact to the disk while disassembling or assembling the computer.
  - Data may be lost when the computer is turned off or reset by a power failure while the hard disk drive is in operation.
  - Data may be lost if the power is turned off while running a program.
  - Moving the computer or any impact caused to it while the hard disk drive is in operation, may damage the data on the hard disk drive.

  To prevent data loss due to damage to the hard disk drive, please backup your data frequently.

Proper Posture During Computer Use

Maintaining a proper posture while using the computer is very important for avoiding physical discomfort or even harm.

The following instructions are about keeping the proper posture during computer use developed through human engineering. Please read and follow them carefully when using the computer.

Otherwise, the probability of (RSI: Repetitive Strain Injury) through repeated operations may increase and serious physical bodily harm may be caused.

> The recommendations (System specification, 📄 p.138) have been prepared so that they can be applied within the coverage of general users.
> If users are not included in the coverage, the recommendations are to be applied according to the user's needs.

Proper Posture

- Do not use the computer on your lap or close to your skin for a long time.
  There is a danger of burns due to the high temperature of the computer.

- To use the computer while talking over the telephone, use the ear-microphone phone.
  When using the computer while holding a phone over your shoulder and talking on the phone, your posture becomes bad.

- Keep frequently used work items within an easy working range (where you can reach them with your hands easily).

Eye Position

Keep a distance of at least 50cm between the LCD and your eyes.

- Adjust the height of the LCD screen so that its top height is equal to or lower than your eyes.
- Avoid setting the LCD excessively bright.
- Keep the LCD screen clean.
- When wearing glasses, clean them before using the computer.

Hand Position

- It is recommended to connect and use an external keyboard and mouse when using the computer for a long time.
- Do not hold the Stylus Pen with excessive force.
- Do not press the touch screen with excessive force.

Volume Control (Headphone and Speaker)

Check the volume level before listening to music.

- Check if the volume level is too high before using headphones.
- Do not set the volume to the maximum from the beginning. Set the volume low and find a comfortable level while turning it up.
- Do not use the headphones for long periods of time.

Use Time (Break Time)

- When working for more than one hour, take a 10 minute break after every 50 minutes of work.
- Using this computer for two hours or less a day is recommended.

Illumination

- Do not use the computer in a dark location. The illumination level for computer use must be bright so that you can read a book.
- Indirect illumination is recommended. Use a curtain to prevent the reflection of the LCD screen.

Operating Conditions

- Do not use the computer in hot and humid locations.
- Use the computer within the allowed temperature and humidity ranges specified in the User Guide.

Chapter 1. Getting Started

Overview

💡 **Before You Start!**
The actual appearance and color of the contents may differ from the pictures used in the material.

Front View / Status Indicators

❶ LCD

❷ Speaker(L)

❸ Joystick

❹ Auto Scaler Button

❷ Speaker(R)

❾ Quick Launch Button

❽ Enter Button

❼ Menu Button

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❺ Status Indicators

❻ Array Microphone

❶	**LCD**	The screen images from the computer are displayed here.
❷	**Speaker**	Used to generate sound.
❸	**Joystick**	Plays the same role as the direction keys (←, →, ↑, ↓) on the keyboard.
		Used as a joystick when playing games.
❹	**Auto Scaler Button**	(Automatic Resolution Adjustment Button)
		Press this button to change the screen resolution.
		Auto Scaler provides 3-step resolutions. Whenever you press this button, the screen resolution changes to 800x480 (Default Resolution) > 800x600 > 1024x600 sequentially. (📄 p.30)
❺	**Status Indicators**	Shows the operating status of the computer. The corresponding operating LED is lit when the corresponding function operates. (📄 p.15)
❻	**Array Microphone**	Used to record sound. (📄 p.97)
❼	**Menu Button**	Press this button to launch the Menu Program. (📄 p.27)
		The Menu Program provides shortcuts to frequently used functions on the computer. You can easily change the settings.
❽	**Enter Button**	Press this button to select an item. It is the same as the Enter key on the keyboard.
❾	**Quick Launch Button**	You can register a frequently used program to launch it just by pressing this button. (📄 p.28)

Status Indicators

① **HDD**   ④ **Power Status**

② **Wireless LAN**   ③ **Charge Status**

①	**HDD**	This turns on while the hard disk drive is being accessed.
②	**Wireless LAN**	This turns on when the wireless LAN is operating. (📄 p.49)
③	**Charge Status**	This shows the power source and the battery charge status. **Green**: When the battery is fully charged or the battery is not installed. **Amber**: When the battery is being charged. **Blinks**: It blinks for a while when sliding the HOLD switch up or when pressing a button when the HOLD switch is in the HOLD position. **Off** : When the computer is running on battery power without being connected to AC power.
④	**Power Status**	This shows the computer operating status. **On** : When the computer is operating. **Blinks**: When the computer is in Standby mode.

Top View

① **Wired LAN Port**   ③ **Windows Security Button**   ⑤ **Vents**

⑥ **Stylus Pen / Stylus Slot**

② **CF Card Slot**   ④ **Power Switch / AVStation NOW Switch**

①	**Wired LAN Port**	A port to which an Ethernet cable is connected; connects the computer to a LAN. (📄 p.47)
②	**CF Card Slot**	A slot into which a CF card is inserted. (📄 p.31)
③	**Windows Security Button**	Pressing this button is the same as pressing the <Ctrl>+<Alt>+<Del> keys on the keyboard. Press the Stylus Pen, display the **Windows Task Manager** window.
④	**Power Switch / AVStation NOW Switch**	You can turn the computer on or off by sliding this switch to the right and releasing it. (📄 p.18) You can launch AVStation NOW by sliding this switch to the left when the computer is turned off. (📄 p.88) ❗ To turn the computer on, slide the Power switch to the right and hold it for more than 0.1 seconds before releasing it.
⑤	**Vents**	The internal heat of the computer is emitted through these holes. ❗ If the vents are blocked the computer may over-heat. This may be dangerous, so avoid blocking the vents.

| ⑥ | Stylus Pen /
Stylus Slot | The Stylus is used to enter information through the touch screen. (📄 p.20) |
| | | You can keep the Stylus Pen in the Stylus Slot. |

Right View
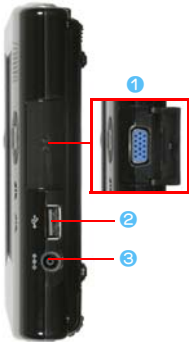
① Monitor Port

A jack used to connect a monitor, TV or projector supporting a 15-pin D-SUB interface. (📄 p.33)

② USB Port

A port used to connect a USB device such as a USB keyboard, mouse, etc.

③ DC-in Jack

A port used to connect the AC adapter supplying power to the computer.

Left View

① External ODD Power Port

A port used to supply power to the external USB ODD.

② USB Port

A port used to connect a USB device such as a USB keyboard, mouse, USB ODD, etc.

③ Headphone Jack

A jack used to connect the headphones.

④ Volume Control Button

A button used to control the volume. (📄 p.26)

⑤ HOLD Switch

When sliding the HOLD switch into the **HOLD** position (upwards), no buttons will work.

When pressing a button or switch in the HOLD status, the **Charge LED** (🔆) blinks for a moment.

To use the computer again, slide the HOLD switch down.

⑥ Hand Strap Hole

You can connect the Hand Strap here.

Rear View

- ❶ 20° Stand
- ❷ 80° Stand
- ❸ Battery Latch
- ❹ Battery
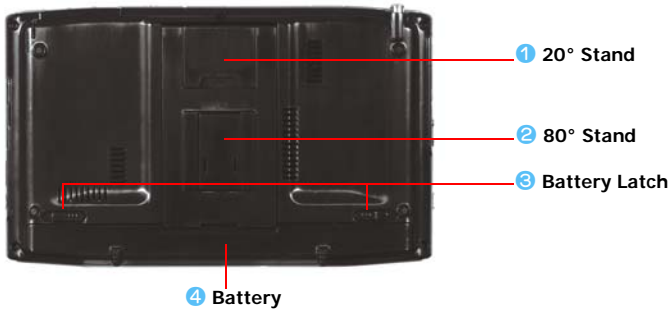
❶ **20° Stand**	You can position the computer at a 20° degree angle so that you can comfortably enter text.	
❷ **80° Stand**	You can position the computer at an 80° degree angle so that you can comfortably view the screen.	
❸ **Battery Latch**	The latch used to remove or install the battery. (▢ p.107)	
❹ **Battery**	A Lithium Ion rechargeable battery which supplies power to the computer. (▢ p.107)	

Turning the Computer On and Off

To turn on the computer

1 Install the **battery** and connect the **AC adapter**. (Refer to the **Getting Started Guide**.)

2 Adjust the **stand** at the back of the computer to a comfortable angle.

3 Slide the **Power Switch** to the right, hold it for more than **0.1 seconds** and then release it. The computer is turned on.

> When running the computer on battery power, the LCD brightness is automatically dimmed to save battery power.
>
> To increase the LCD brightness, press the **Menu button** and press **Brightness Up**. (p.27)
>
> Alternatively, press the **+, - Volume Control** buttons while holding down the **Menu** button to adjust the LCD brightness.

To turn off the computer

1 Click the **start** button ( ) on the taskbar.

2 Click **Turn Off Computer**.

3 Click **Turn Off**.

> When the system cannot be shut down due to a system error, turn it off by sliding and holding the **Power Switch** for more than 4 seconds.
>
> After that, when turning it on by sliding the Power Switch, the disk checking program may launch.

Chapter 2. Using the Computer

Stylus Pen

A Stylus Pen is used instead of mouse and provides the same function.

Before You Start!
It is recommended to connect and use a USB keyboard and mouse when using the computer for a long time.

Taking the Stylus Pen Out

Pull the Stylus Pen upwards.

When finishing using the pen, return it to the Stylus Slot.

Stylus Pen Functions

Mouse	Stylus Pen	Function
Single-click	Single-tap	Single-tap with the pen to select an item.
Double-click	Double-tap	Double-tap with the pen to run an item.
Right-click	Press and Hold	Press and hold for more than 3 seconds with the pen to display the Pop-up menu.
Drag	Drag	Press an item and drag it with the pen to move the item.
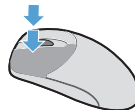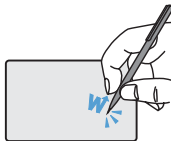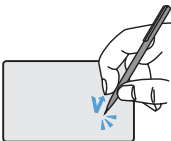
Learning How to Use the Stylus Pen
Select **Start > Get Going with Tablet PC** to learn how to use the Stylus Pen. (p.37)

Operate the touch screen LCD with a **Stylus Pen** or your **finger**. Sharp objects may scratch or damage the LCD surface.

Calibrating the Stylus Pen

When using the Stylus Pen for the first time or the pointing position of the Stylus Pen is incorrect, you can correct the pointing position using the **TouchKit** program.

1 Select **Start > All Programs > Touchkit > Configure Utility**.

2 In the **Tools** tab, press the **4 Points Calibration**.
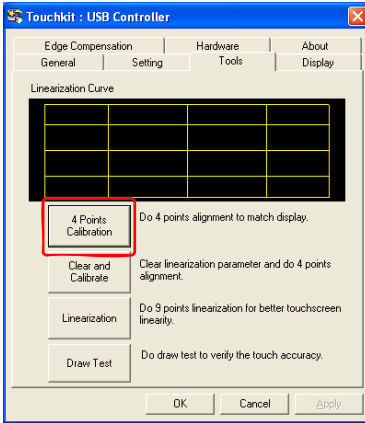
Enhancing the Accuracy

If a more precise correction is required, you can correct the pointing position by using **9-Points** or **25-Points** Calibration.

❶ In the **Linearization Style** item in the **Settings** tab, select **9-Points** or **25-Points** and then press the **Apply** button.

❷ In the **Tools** tab, press **Linearization**. The higher the number, the more precise a correction is provided.

3 Press and hold the **X-symbol** displayed on the screen until it stops blinking. The **X-symbol** appears repeatedly according to the selected number of points.

4 If the **Calibration Result** window appears, click the **OK** button. The pointing position of the Stylus Pen is corrected.

Entering Text

You can enter text by using the **Tablet PC Input Panel** or **DialKeys** on this computer.

> **Before You Start!**
> Using a USB keyboard is more convenient over long periods of use.
> For example, to enter texts in **Notepad**, select **Start > All Programs > Accessories > Note-pad** and run **Notepad**.

Using the Tablet PC Input Panel

The Tablet PC Input Panel is an on-screen letter input pad provided by Windows. Using it, you can enter letters with the Stylus Pen when a keyboard is not available.

You can enter letters using the **Tablet PC Input Panel** in 3 ways.

Click on the **Tablet PC Input Panel** ( ) icon on the taskbar.

Writing Pad
Character Pad
On-Screen Keyboard
Tablet PC Input Panel icon

Close
Tools and Options
Help
You can learn detailed usage for the Tablet PC Input Panel.
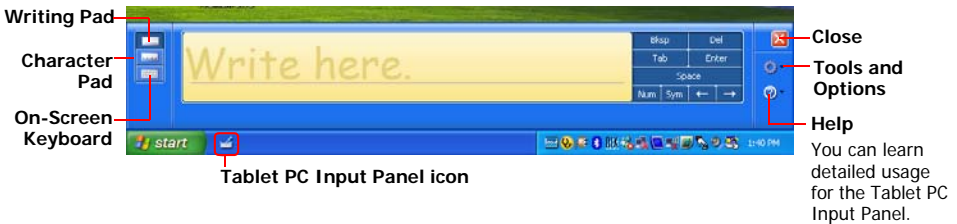
Entering text using the Writing Pad

You can enter text on the Writing Pad using the Stylus Pen.

1 In the **Tablet PC Input Panel**, click the **Writing Pad** icon ( ).

2 Write text in the input area of the Writing Pad with the Stylus Pen and wait a moment. The written letters are converted into the corresponding computer characters. Press the **Insert** but-ton to enter the converted letters.

Insert

Editing Letters
Overwrite wrong letters or press the lower part of a letter to select another letter from the displayed letters.
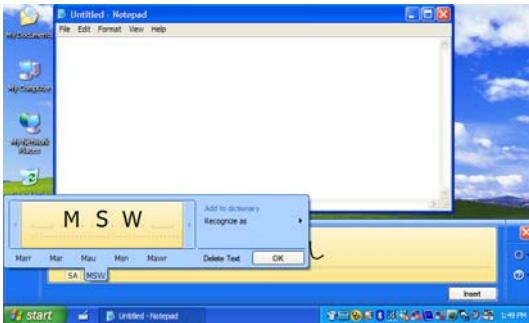
Entering text using the Character Pad

You can write a letter in each cell of the Character Pad with the Stylus Pen.

1 In the **Tablet PC Input Panel**, click the **Character Pad** icon ( ).

2 Write a letter in the cell of the Character Pad with the Stylus Pen and wait a moment. The written letter is converted into the corresponding computer character.

Press the **Insert** button to enter a converted letter.

Insert
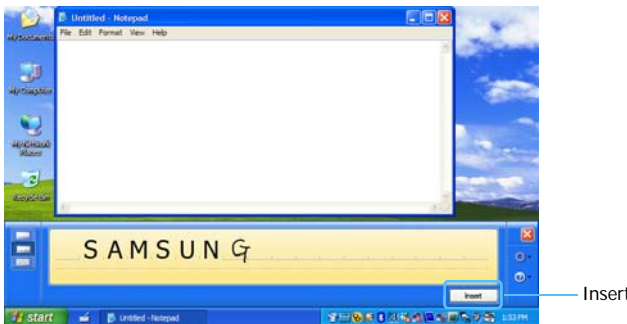
Entering text using the On-Screen Keyboard

The On-Screen Keyboard displays a standard keyboard on the screen so that you can enter a letter by pressing the corresponding key on the screen.

1 In the **Tablet PC Input Panel**, click the **On-Screen Keyboard** icon ( ).

2 Press a key on the screen with the Stylus Pen.
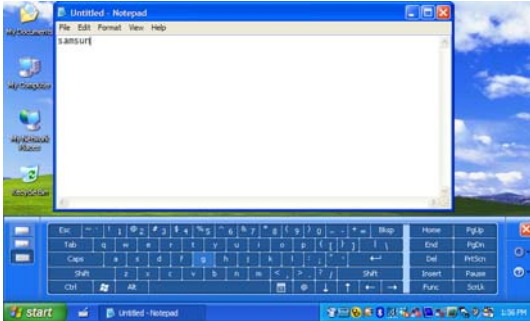
Dialkeys

DialKeys is an on-screen keyboard designed to be used with compact touch screen computers.

You can enter letters using the **DialKeys** by pressing a key on the screen with your thumbs while holding both of the lower corners of the computer with your hands.

To launch the **DialKeys** for the first time, click **Start > All Programs > Microsoft Touch Pack for Tablet PC > DialKeys**. You can launch the **DialKeys** as follows after the first launch.

1 Click on the **Dialkeys icon** (⬛) on the taskbar for more than 3 seconds and select **Show/ Hide DialKeys** from the pop-up menu.
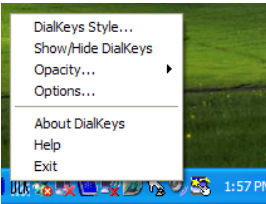
2 **Dialkeys** appears on both lower corners of the screen. Enter letters using your thumbs.

⬛	Corresponds to the Enter key on a keyboard.
⬛	Corresponds to the space bar on a keyboard.
⬛	Minimizes the Dialkeys.
⬛	Corresponds to the Backspace on a keyboard.
⬛	Move the current window upwards.

To View Detailed Usage of the Dialkeys
Click on the **Dialkeys icon** (⬛) on the taskbar for more than 3 seconds and select **Help** from the pop-up menu.

Volume Control

You can control the volume with the Volume Control button or Volume Control program.

Using the Volume Control with the Volume Control Button

Press the top of the **Volume Control Button** ( ) (+) to turn up the volume or press the bottom of the button (-) to turn down the volume.

Using the Volume Control with the Volume Control Program

Click on the **Volume** icon ( ) on the taskbar and slide the volume bar up or down.
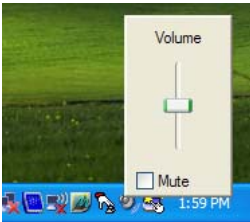
Alternatively, double-click on the **Volume** icon ( ) and adjust the master volume control.
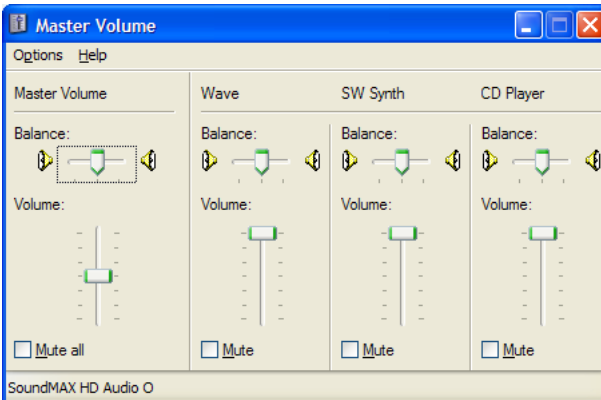
Using the Buttons

The procedures to use the **Menu**, **Quick Launch** and **Auto Scaler** buttons are described below.

The Menu Button (▤)

Press the Menu button to launch the Menu Program. The Menu Program provides shortcuts to frequently used functions on the computer. You can easily change the settings.

Press the Menu button again or press a point on the screen to hide the Menu Program.

Menu Items	Function
Brightness Up	Whenever this item is pressed, the LCD brightness is increased by one step.
Brightness Down	Whenever this item is pressed, the LCD brightness is decreased by one step.
Wireless LAN ON (OFF)	Press this item to turn the Wireless LAN on or off.
Wired LAN ON (OFF)	Press this item to turn the Wired LAN on or off.
Sound ON (OFF)	Press this item to turn the volume on or off.
Backlit OFF	Press this item to turn the LCD backlight off. To turn it on again, press a point on the LCD screen once.
Etiquette Mode ON (OFF)	You can select Etiquette Mode when you need a tranquil work environment.

LCD/CRT	Press the item to view screen images on an external monitor.
	When pressing this item once, screen images are displayed on the LCD. When pressing this item twice, screen images are displayed on both the LCD and the CRT (external monitor) simultaneously.
	CRT Output Only is not supported.
SRS	Press this item to set up the SRS function.
	SRS provides surround sound even with 2 speakers by extending the space perception.
	Whenever this item is pressed, the following function is selected.
	WOW XT: For listening to music.
	Trusurround: For watching movies.
	SRS OFF: Turns the SRS function off.
Battery	Shows the remaining battery charge.
Rotation	Whenever this item is pressed, the screen rotates by 90 degrees to the left.
	■ When rotating the screen, a part of the screen image may not be displayed in some software programs.
	■ Since the Rotation function is supported for the 800x480 pixels resolution only, if the Rotation function does not work when pressing the item, set the screen resolution to 800x480 pixels first by pressing the Auto Scaler button.

The Quick Launch Button

You can register a frequently used program to launch the program, just by pressing this button.

The procedures to change the default settings are described below.

Default Setting

Quick Launch button is defined as follows by default.

Button	Function	Description
u1	Mouse Scroll Up	Scrolls up in the current window.
u2	Back	Moves to the previous page in Internet Explorer or Windows Explorer.
u3	Mouse Scroll Down	Moves to the next page in Internet Explorer or Windows Explorer. Scrolls down in the current window.
u4	Forward	Scrolls down in the current window.

Changing the Settings

The procedures to change the default settings are described below.

1 Double-click the **Magic Keyboard** icon ( ) on the taskbar.

2 Click the **add** button.

3 Enter a name in the **Group Name** field and select a shortcut key in the **Select Shortcut Key** field.

4 Select the **Run Program** option, click the **Browse** button, select a program to be launched and click the **Open** button.

Example) C:\Program Files\Internet Explorer\IEXPLORE

To use the keyboard shortcut function, select the **Keyboard Effect** option and then define a shortcut key combination.
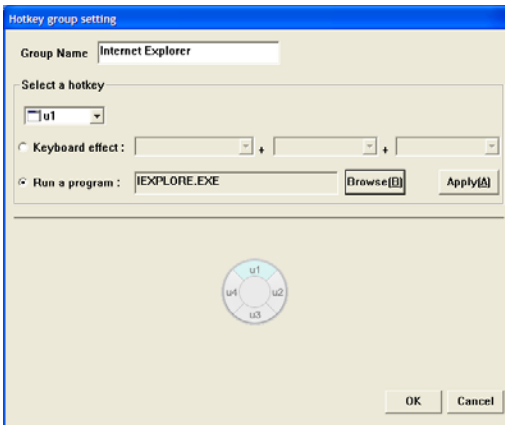
5 Click the **Apply** button and click the **OK** button to complete the settings.

The Auto Scaler Button

The default resolution of this computer is 800x480 pixels. In the default resolution, the complete screen image of programs designed for high resolutions may not be displayed properly. In this case, press the **Auto Scaler button**(Automatic Resolution Adjustment Button) on the left side of the computer and select a higher screen resolution.

When pressing the **Auto Scaler** button, the **Auto Scaler menu** appears. Whenever this button is pressed, the screen resolution changes to 800 x 480 (Default Resolution) > 800 x 600 > 1024 x 600 sequentially.

Example)
Selecting a **800 x 480** pixels resolution

Example)
Selecting a **800 x 600** pixels resolution

The **Auto Scaler** button provides a function that fits high resolution screen images to the screen size and does not support all resolutions supported by the graphics chipset. To select a resolution, which is not supported by Auto Scaler, use the Display Properties. (p.45)

CF Card Slot

A CF card slot is provided so that you can use CF cards. A CF card is a removable storage device that can be used to exchange data with digital devices such as a digital camera, PDA, etc. conveniently.

Before You Start!
This computer supports CF card types I and II.

Using the Card

1 Insert a card into the slot in the correct direction.
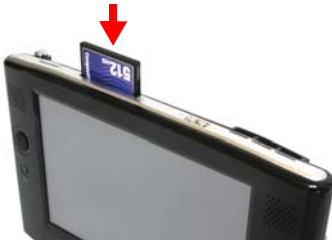
2 The card drive appears. If it does not appear, click **Start > My Computer**.

3 Double-click the removable disk and you can save, move and delete files on and to the card.

Devices with Removable Storage

Removable Disk (D:)
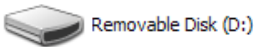
You can only use a formatted card. If it is not formatted, refer to the descriptions for 'Formatting a Card'.

Removing the Card

Hold the end of the CF card and take it out.

Formatting the Card

You have to format a card first to use it.

> **!** If a card is formatted, all data will be deleted. Before formatting a card, please backup your data.

1 Select **Start > My Computer**.

2 Press a removable disk with the Stylus Pen for more than 3 seconds and select **Format** from the pop-up menu.

3 Click the **Start** button to begin formatting the card.

> **!** To use a CF card on both a computer and another digital device (such as a digital camera), we recommend formatting the memory card in the digital device. When formatting the memory card in the computer, you may have to format the memory card for the other digital device again to use the memory card with that device.

Connecting a Monitor

Using an external display device is useful when you are giving a presentation or watching a movie through your TV.

Connecting a Monitor

Open the Monitor OUT port cover by pulling the groove of the cover and connecting a monitor.
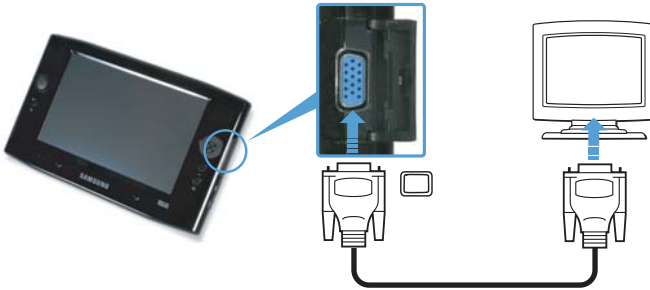
Viewing on a Monitor

1 Press the **Menu** button.

2 Press the **LCD/CRT** item once to display screen images on the LCD screen.

When pressing the item twice, you can view screen images on both the LCD and CRT screens simultaneously.

LCD: Computer Screen
CRT: External Monitor Screen

Outputting to CRT only is not supported.

Dual View

Dual View is a function that enables you to view a computer screen over two display devices.

The **Menu** button does not support Dual View mode. You have to use the 'Display Properties' of Windows to use Dual View.

> When using Dual View, use a USB mouse.
> Using a mouse to move between screens is convenient. You cannot move between screens with the Stylus Pen.

Using Dual View to View an Extended Screen

Check if an external display device has been properly connected and configure Dual View.

1   Select **Start > Control Panel > Appearance and Themes > Display**.

2   Click the **Settings** tab.

3   Click the monitor '**2**' icon, select the '**Extend my Windows desktop onto this monitor**' check box and click **Apply** and then the **OK** button.
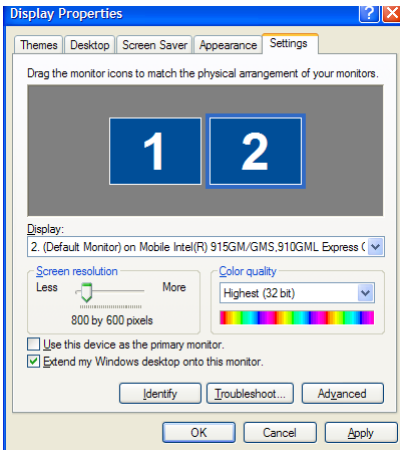
4   If you have set the LCD as the primary display device, the primary display device (the LCD) is indicated as '**1**', and the secondary display device is indicated as '**2**'. Now you can view the screen through two monitors.

It is recommended setting the LCD screen as the primary device ('1') when using Dual View.
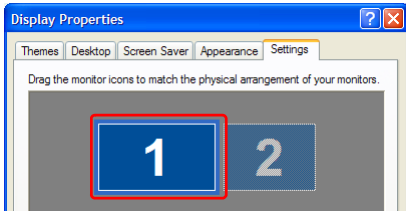
If the screen of the secondary display device is displayed at **640x480** pixels with **256** colors, select **Start > Control Panel > Appearance and Themes > Display > Settings** tab > **Monitor 2** and change the settings to the desired screen resolution and color quality.

To Move a Window between Monitors in Dual View Mode

Click and hold a window title bar on the primary display device ('1') with the mouse and drag the window title bar to the secondary display device ('2') to move the window.
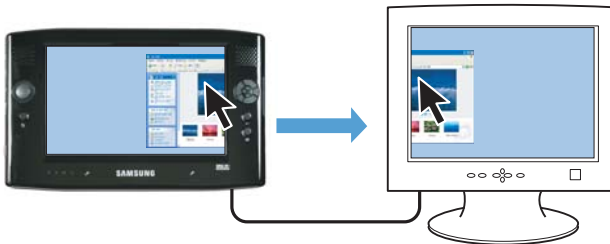
Deactivating Dual View Mode

1 Select the **Start > Control Panel > Appearance and Themes > Display > Setting**s tab.

2 Click the monitor '**2**' icon, unselect the '**Extend my Windows desktop onto this monitor**' check box and then click **Apply**.

Chapter 3. Using Microsoft Windows XP

About Microsoft Windows XP

The Microsoft Windows XP Tablet PC Edition (hereafter, Windows) operating system is installed on this computer.

Microsoft Windows XP Tablet PC Edition is an operating system to which additional features for the tablet PC, such as a hand-writing recognition function, have been added, and is based on Microsoft Windows XP Professional.

You can learn elementary functions for using this PC through the **Get Going with Tablet PC** and **Tablet PC Tutorials**.

> The computer has adopted touch screens so that you can operate the computer with your hands and does not accord completely with the characteristics of a typical tablet PC.
> In addition, since a Stylus Pen is provided instead of a Tablet Pen, the **Tablet and Pen Settings** provided by the Windows XP Tablet PC Edition are not completely supported by **Pen Options**.
> To calibrate the Pen, use the **Touchkit** program. (p.21)

Get Going with Tablet PC

Select **Start > All Programs > Get Going with Tablet PC**.

The **Welcome to tablet computing** screen appears. Click **Start** to learn how to use your tablet PC.
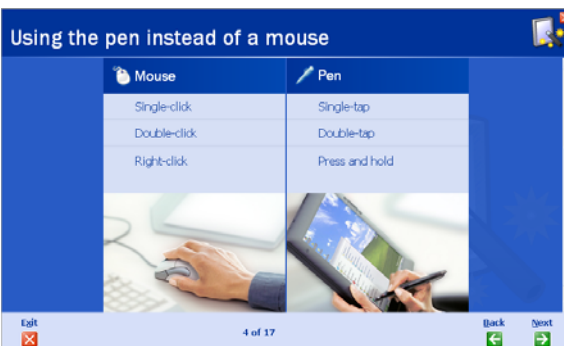
Tablet PC Tutorials

You can tour elementary functions of your tablet PC and learn how to hand-write on the Writing Pad through the Tablet PC Tour.

> Tablet PC Tutorials only supports the **1024x768** pixels resolution.
> Before running the Tutorials, select the **Start > Control Panel > Appearance and Themes > Display > Settings** tab and change the screen resolution to **1024x768** pixels.

Select **Start > All Programs > Tablet PC > Tablet PC Tutorials**.

The Tablet PC Tour screen appears. Click **Next** to learn how to perform 'Note Writing', 'Entering texts with the Tablet PC Input Panel', etc.
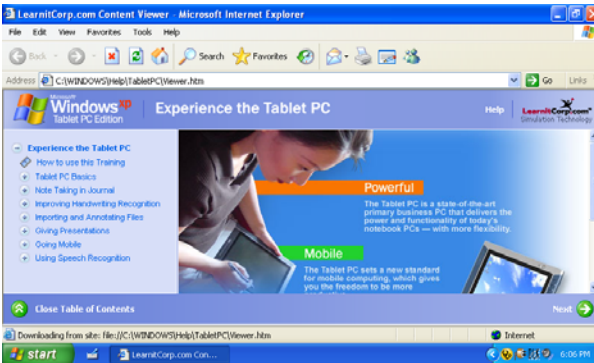
Reinstalling Windows XP

If you cannot start up Windows due to damage to the system or errors frequently occur, you can reinstall Windows using the **System Recovery Media** (DVD). (p.121)

You can use the system recovery media by connecting the external USB ODD to the system.

The Windows XP Screen Layout

The screen layout of Windows XP Tablet PC Edition is the same as that of Windows XP.

Desktop

The desktop is the working area on the computer. It consists of a large workspace and a taskbar at the bottom as shown in the figure below.
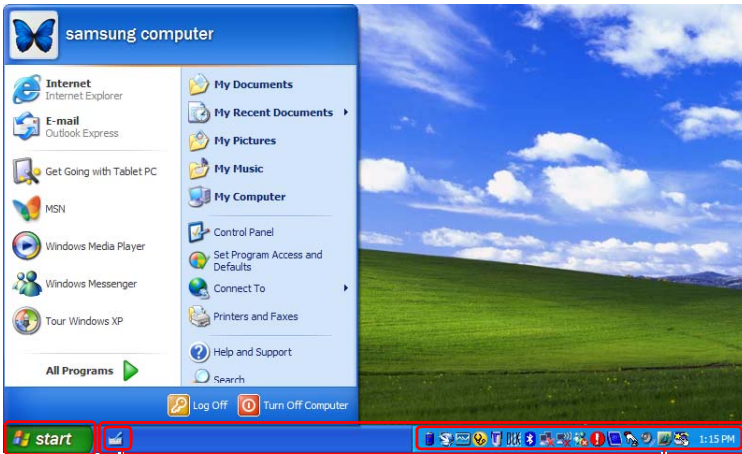
❶ Start   ❷ Tablet PC Input Panel   ❸ Taskbar   ❹ System Tray with Clock

❶ **Start**	Opens the Start menu.
❷ **Tablet PC Input Panel**	The Input Pad used to enter letters.
❸ **Taskbar**	Running programs are displayed here.
❹ **System Tray with Clock**	Displays some program icons that are currently running. Infrequently used icons are hidden. When clicking the left arrow icon, hidden icons are displayed.

Understanding the Start Menu

The Start menu includes everything that is required to start Windows. From the Start menu it is possible to run a program, open a file, assign system users with Control Panel, receive support by clicking Help and Support, and search desired items from the computer or Internet by clicking Search.
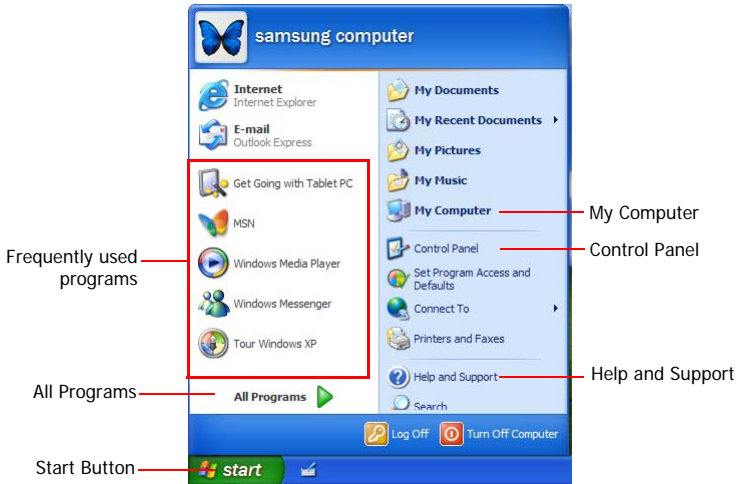
My Computer		Displays the contents of the hard disk, the CD-ROM drive, the network drive(s), and floppy disks. It can also be used to search and open files and folders.
Control Panel		Enables users to configure settings on the computer.
Help and Support		Provides on-line help, information on Windows and troubleshooting.
Search		Enables users to search for information in files or the Internet.
Run		Run programs or documents.

Understanding a Window

The My Computer window, which is a window for the computer's hard drive, will be used as an example here to show the basic composition of a window.

Click **Start > My Computer**.
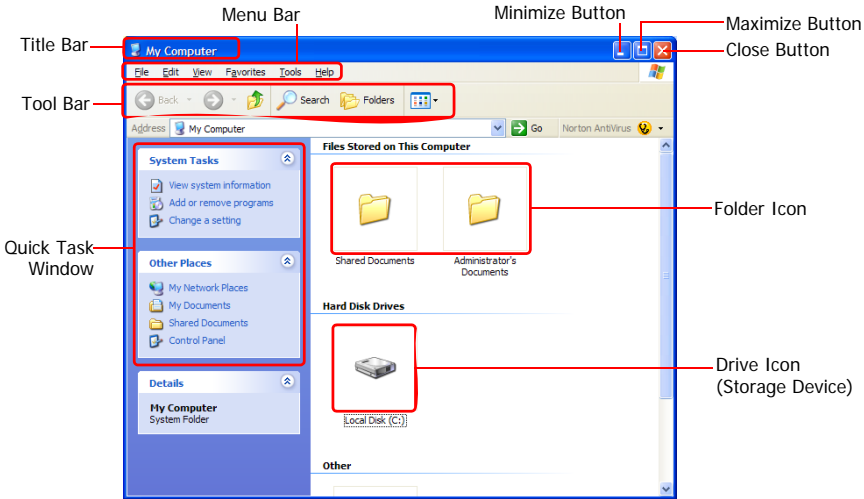
Double-click the hard drive (local disk) to view internal folders and files stored in it. If the contents do not appear, click **Show the contents of this folder**.

What is a drive?
A storage device in which files and folders are saved in, and read from.
What is a folder?
A folder is used to group and manage files systematically, and may include files in sub-folders. It is similar to a bookshelf.
What is a file?
A file is a document or various kinds of material that is generated as a result of program operation. It is also called data.

To view the entire structure of the drive
Click the Folder icon in the taskbar to view the entire structure. Click again to return to the Quick Task Window.

Control Panel

In the Control Panel, tools to configure Windows are collected.

Opening the Control Panel

Select **Start > Control Panel**.
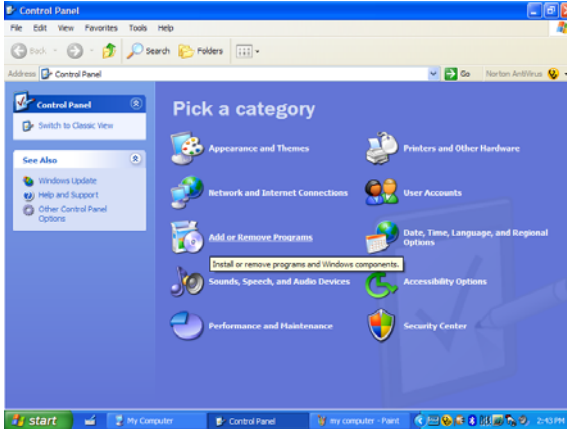
Icon	Name	Function
	Appearance and Themes	Used to change the appearance of Windows. Using this function, you can change the Desktop, apply a theme and a screen saver to the computer, and change the Start menu and Taskbar.
	Network and Internet Connections	Using this function, you can configure the network settings or configure and add Internet connections.
	Add or Remove Programs	Using this function, you can add or remove a program from Windows.
	Sound, Speech and Audio Devices	Using this function, you can adjust the volume, select a sound scheme, and set up speakers.
	Performance and Maintenance	Using this function, you can set Windows performance options. In addition, you can manage the hard disk drive and hardware.
	Printers and Other Hardware	Using this function, you can add or configure a printer, mouse, keyboard, scanner, camera, or gaming device, etc.
	User Accounts	Using this function, you can add or set a Windows XP user account.
	Date, Time, Language and Regional Options	Using this function, you can configure the date, time, language, regional settings.
	Accessibility Options	Using this function, you can select options for weak-eyed and disabled persons.
	Security Center	Using this function, you can check the current security status to protect the user's computer and configure the security settings for the firewall, virus anti-virus program, etc.

User Account

Windows XP allows each user to use a computer with his user account. The procedures to add a user account and switch between user accounts are described below.

Adding a User Account

1 Select **Start > Control Panel**.

2 Double-click **User Accounts** and click **Create a New account**.
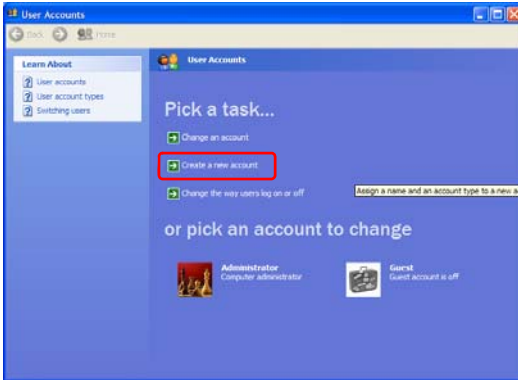
3 Click the **Tablet PC Input Panel** icon, enter a name and then click the **Next** button.

4 Select an account type, click **Create Account**, and then check the newly created account in the user account screen.

If you cannot see the bottom of the screen, press and drag the scroll bar of the window with the Stylus Pen.

5 To change the user account information, click an account to be changed.

You can change the account name, password, type and picture.
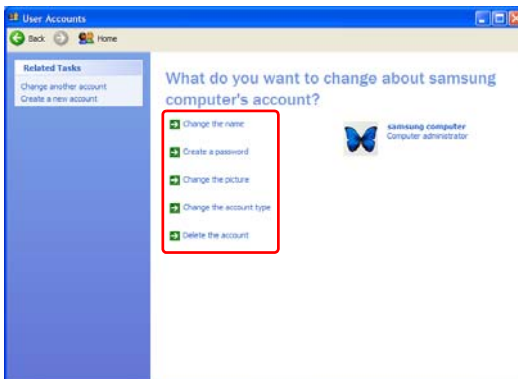
Deleting a User Account

1   Select **Start > Control Panel > User Accounts**.

2   Click a user account to be deleted and click **Delete Account**.

You cannot delete the current login user account.

Switching Users

1   Select **Start > Log Off**.

2   Click **Switch User**.
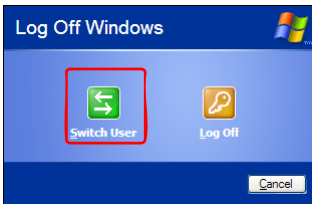
3   Click a user account to login to the Start screen.

Login with a new user account.

Changing the Resolution and Colors

The resolution means the number of pixels displayed on the screen. When setting the resolution higher, items on the Desktop become smaller and more items can be displayed on the screen. The higher the color quality, the more colors are displayed on the screen.

1 Select **Start > Control Panel > Appearance and Themes > Display**.

2 Click **Settings** and change the **Screen Resolution** and **Color Quality** and then click **OK**.
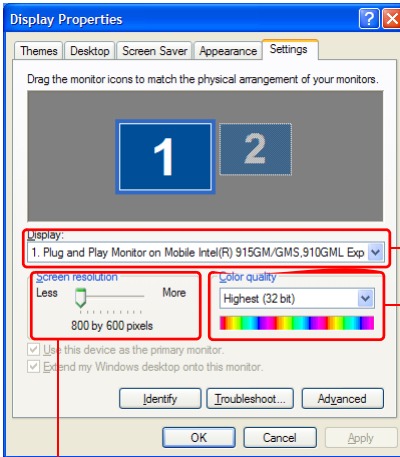
You can check your graphics chipset.

To set the color quality, select a color quality in the Color quality field.

To set the resolution, slide the resolution slide bar to a desired resolution in the Screen resolution field.

- If 1024x768 or a higher resolution is selected, the entire screen is not displayed on the LCD screen. In this case, you have to move the mouse pointer up, down, left or right to view the hidden part of the screen image.

- **If the 800x480 resolution is not available**
  When selecting the 800x600 or 1024x600 resolution by pressing the Auto Scaler button, the 800x480 resolution may not appear in the Display Properties window. In this case, press the Auto Scaler button and select the 800x480 resolution.

About the 1024X768 Pixels Resolution
The 1024x768 pixels resolution is also fitted to the screen size. You can select the 1024X768 pixels resolution by selecting the **Start > Control Panel > Appearance and Themes > Display > Setting** tab.

Chapter 4. Using the Network

Connecting Through a Wired LAN

Before configuring the Wired LAN, you have to turn the Wired LAN on, if it is turned off.
Press the **Menu** button and press the **Wired LAN ON** item to turn it on.

1 Connect a LAN cable to the computer's LAN port.
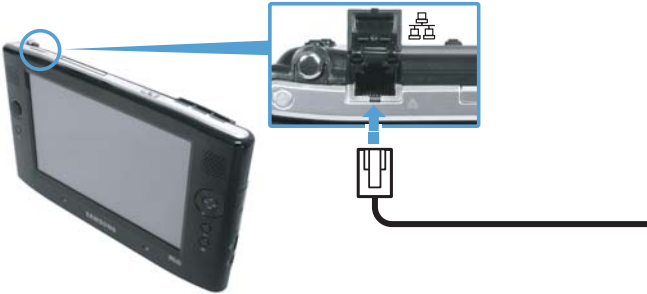
2 Click **Start > Control Panel**.

3 Click **Network and Internet Connections** in the [Control Panel] window.

4 Click **Network Connections** in the [Network and Internet Connections] window.

5 Right-click(press and hold the Stylus Pen for more than 3 seconds) the **Local Area Connection** icon and click **Properties**.
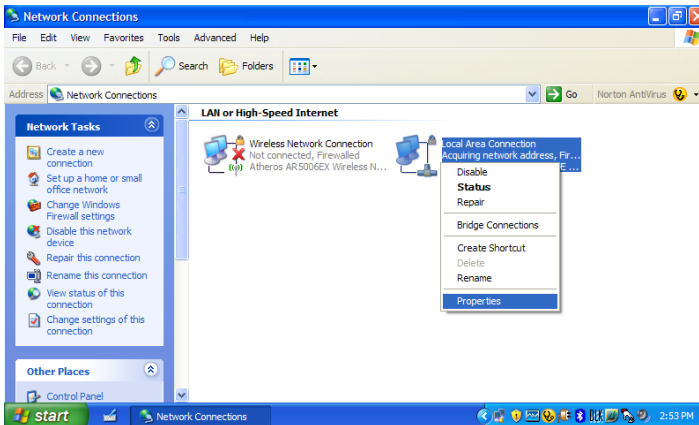
6 On the **General** tab, select "Internet Protocol(TCP/IP)" and click **Properties**.
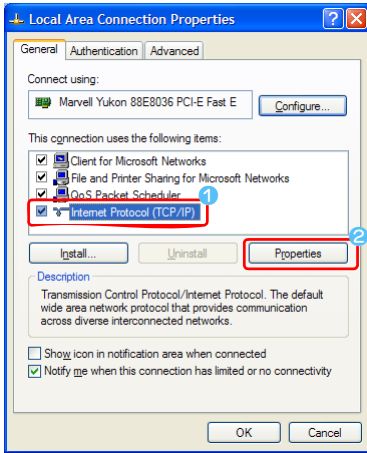
7 **To use DHCP:**

On the **General** tab, select "Obtain an IP address automatically" and "Obtain DNS server address automatically". Click **OK**.

To use a static IP:

On the **General** tab, select "Use the following IP address" and fill in the IP address, Subnet mask, Default gateway, Preferred DNS server, and Alternative DNS server fields. Click **OK**.

To use both DHCP and static IP simultaneously:

On the **Alternate Configuration** tab, click **User configured** and fill in the fields.

Click **OK**.
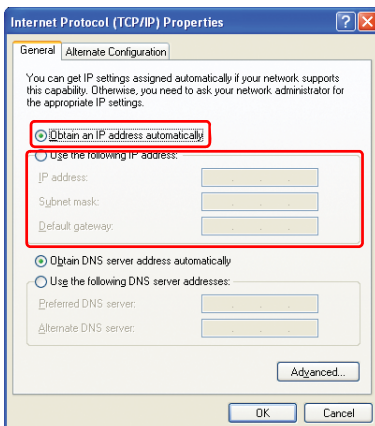
Connecting Through a Wireless LAN (Optional)

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

Using the wireless network connections between the systems, you can use normal network functions such as sharing of files, folders and printers. When a computer-to computer network has been established, a computer that is not connected to the Internet can share the Internet by accessing another computer connected to the Internet. For details, see "Sharing Internet Access" on page 58.

> A wireless LAN card is optional. The model of the wireless LAN card is determined by the relevant product.
>
> To view the installed wireless LAN card, click Start > Control Panel > Performance and Maintenance > System > Hardware tab > Device Manager.
>
> The wireless LAN connection settings will be described on the basis of the Windows XP Service Pack 2 installed computer.
>
> It is recommended using the default settings provided by Windows XP for the wireless LAN settings for Windows XP installed computers.
>
> To setup using the software supplied by the wireless LAN card manufacturer, refer to "Wireless Network Setup Using the Wireless LAN Setup Program" (p54).
>
> To use the Wireless LAN, you have to turn the Wireless LAN on first, if it is turned off.
>
> Press the **Menu** button and press the **Wireless LAN ON** item to turn it on. If the Wireless LAN is turned on, the **Wireless LAN LED** ( ) is lit.

Wireless network connections can be classified into two categories.

1) Access Point (AP)

You can connect to an AP to use the network. This is possible only in an environment equipped with an AP. For details, see "Connecting to an Access Point (AP)" on page 50.

> **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.

2) Computer-to-computer (ad hoc)

This is also called a peer-to-peer network.

In computer-to-computer wireless networks, you can wirelessly connect 2 or more computers that have wireless LAN modules. For details, see "Connecting to computer-to-computer networks (peer-to-peer or ad hoc)" on page 51.

Connecting to an Access Point (AP)

This section describes how to connect to an AP. You can use the network when you are connected to an AP.

> For more detailed information such as the network key (encryption key), ask your network administrator.

1 Right-click(press and hold the Stylus Pen for more than 3 seconds) on the **Wireless Network Connections (**) icon on the taskbar, and select **View Available Wireless Networks**.
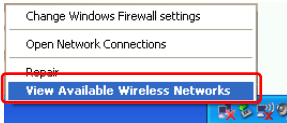
2 Select an AP (E.g. Test) to connect to and click **Connect**.

If there is a configured network key for the AP to connect to, the Enter Network Key window appears. Enter the **Network Key** in the window and then click the **Connect** button.
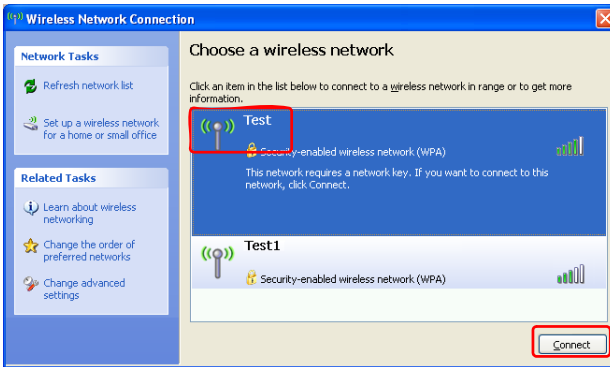
> When a network key is not defined for a selected AP, click on Link to display the warning message box. Then click Connect again in the box.

Now when **Connected** in AP is displayed, and you can access the network.

> **Checking the connection status**
> Move the mouse pointer over the Wireless Network Connection ( ) icon on the taskbar, and the connection status is displayed.
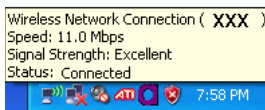
Connecting to computer-to-computer networks (peer-to-peer or ad hoc)

In computer-to-computer wireless networks, you can wirelessly connect 2 or more computers that have wireless LAN modules. Using this method, a computer that is not connected to the Internet can share the Internet by accessing another computer connected to the Internet. (Refer to "Sharing Internet Access" on page 58.)

You can connect by completing the following steps:

- **Step 1**. Set up a computer-to-computer network on a computer.
- **Step 2**. Connect to the configured computer from other computers.

Step 1. Setting up a computer-to-computer network

1 Right-click(press and hold the Stylus Pen for more than 3 seconds) on the **Wireless Network Connection** ( ) icon on the taskbar, and select **View Available Wireless Networks**.
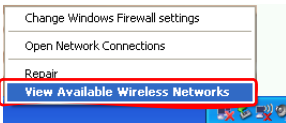
2 Click **Change the order of Preferred Networks**.
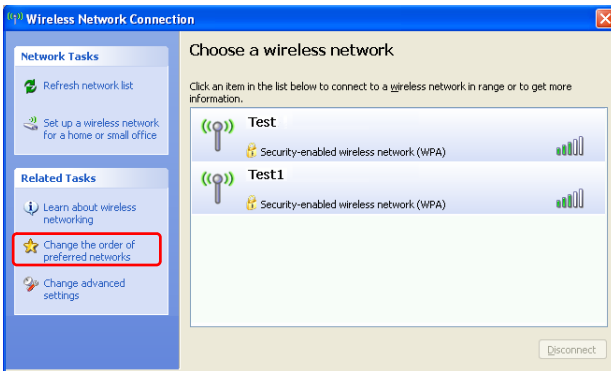
3 On the **Wireless Network** tab, click **Advanced**.

4 Clear 'Automatically connect to non-default network' check box, if it is selected. Select 'Computer-to-computer (ad hoc) networks only', and click **Close**.

5 In the **Wireless Networks** tab, click **Add**.

6 Enter the network name (e.g. samsung), and unselect 'The key is provided for me automatically'. Enter the encryption key in the Network key field, and click **OK**.
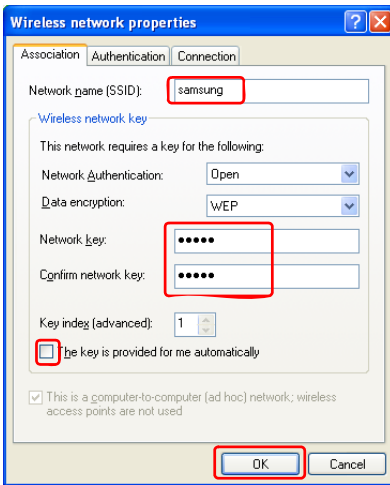
To prevent a network connection from an unauthorized user, it would be better to configure a network key (encryption key). A network key consists of 5 ~ 13 alphanumeric characters (e.g. magic), or of 10 ~ 26 hexadecimal numbers (a hexadecimal number is represented by numbers '0' to '9' or letters 'a' to 'f').

7 Check that the configured network name (e.g. samsung) is in the 'Preferred networks' item, and click **OK**.
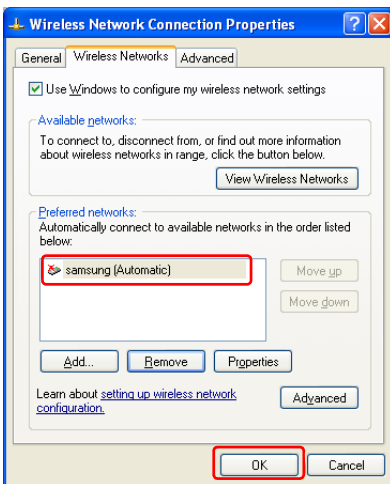
Now your wireless network setup has been completed.

Step 2. Connecting to the configured computer

1 Right-click(press and hold the Stylus Pen for more than 3 seconds) on the **Wireless Network Connection** (▣) icon on the taskbar, and select **View Available Wireless Networks**.

2 Select the wireless network name (e.g. samsung) specified in "Connecting to computer-to-computer networks (peer-to-peer or ad hoc)" on page 51, and click **Connect**.
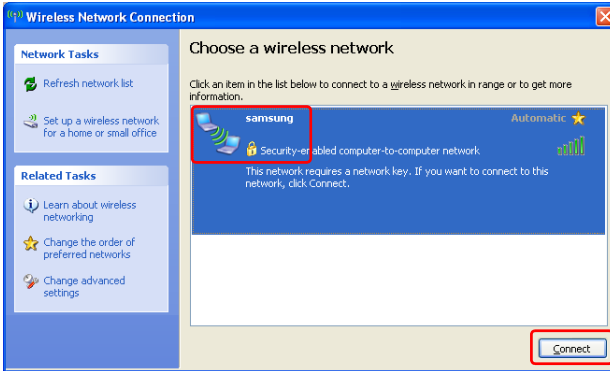
3 Enter a cryptographic key in the network key box and click **Connect**.
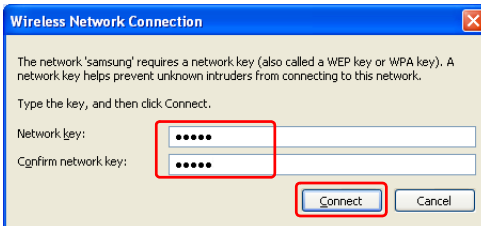
If the network key is not configured in "Connecting to computer-to-computer networks (peer-to-peer or ad hoc)" on page 51, just click **Connect**, without any keystrokes.

When connected to the wireless network, the system displays **Connected** in the selected network of the Network Connection window.

Checking the connection status
Move the mouse pointer over the Wireless Network Connection (▣) icon on the taskbar, and the connection status is displayed.
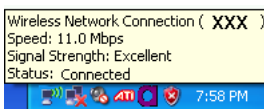
Wireless Network Setup Using the Wireless LAN Setup Program

The procedures to connect to an access point using a wireless LAN configuration program are described below. Since the wireless LAN configuration program is included on the **System Software Media**, the user has to install the program.

Before You Start!
To use the system software media, the external USB ODD must be connected to the computer. The following descriptions presuppose that the external ODD is connected.

1 Insert the **System Software Media** into the CD drive and install the wireless LAN configuration program (ACU: Atheros Client Utility).

Select **System Software Media > User Installation > Wireless LAN Driver ReadMe**, click **ReadMe** and install the program according to the instructions.

2 Right-click(press and hold the Stylus Pen for more than 3 seconds) on the **wireless LAN configuration program** ( ) on the taskbar and select **Open Atheros Client Utility**.

Alternatively, click **Start > All Programs > Atheros Client Utility > Atheros Client Utility**.

3 In the Profile Management tab, click **Scan** to search for available wireless networks.

4 Select the name of an access point (AP) to connect to from the network name (SSID) and then click **Activate**.

5 Enter a profile name to be used for the connection and select the security settings of the AP to be connected to in the **Security** tab.

The network authentication, encryption type and password of an access point are configured through the access point management program. For the security information, check the security settings of an access point or ask your wireless network administrator.

Refer to the following when setting a WEP key.
- **Data encryption (WEP)**: The IEEE 802.11 WEP (Wired Equivalent Privacy) standard defines two levels of encryption, a 64-bit key (this is sometimes represented by 40bits) and a 128-bit key.
  When connecting to an Atheros access point, you can use the 152-bit key (32 hexadecimal digits or 16 ASCII characters).
- **Key index**: Select the current encryption key index used by the access point from between 1 to 4.
- **Using an encryption key**: Enter 5 (for 64-bit) or 13 (for 128-bit) alphanumeric characters (represented by 0-9, a-z, or A-Z).

6 Click **OK** and then **OK** again in the Profile Management window.

If the profile is created, the profile appears in the list in the Profile Management tab and the connection is established using the profile.

Using Samsung Network Manager

Samsung Network Manager is a program that has been developed to enable users to use the network easily.

Samsung Network Manager provides the following features.

- **You can easily set up the network and printer settings.**
- **You can immediately use the network without defining new network settings again after moving locations.**

  By setting the network settings (IP address, printer settings, etc.) for each location, you can immediately access the network without following network setting procedures each time regardless of your location.

- **You can easily share Internet Access.**

  You can share your Internet connection by setting up a computer with 2 LAN interfaces (wired and wireless, or 2 wired LAN) as the sharing server. Then, you can access the Internet on a sharing client by connecting to the sharing server.

- **You can diagnose the network status.**

  You can diagnose the network status when the network is not properly connected.

Setting Up a Network

This section describes the procedures to connect to the Internet by setting up a network. The setting up procedures include the procedures to add a printer to the network.

1 To use a wired LAN, connect the LAN cable to the LAN port and turn the wired LAN on, if it is turned off.

Press the **Menu** button and click the **Wired LAN ON** item to turn it on.

To use a wireless LAN, you have to turn it on, if it is turned off.

Press the **Menu** button and click the **Wireless LAN ON** item to turn it on. When the wireless LAN is turned on, the **Wireless LAN LED** ( ) lights up.

2 Run Samsung Network Manager.

Select **Start > All Programs > Samsung > Samsung Network Manager > Samsung Network Manager** or double click the **Samsung Network Manager**( ) icon on the Desktop.

3 Click the **Add** button.

4 Select a network location icon and enter the name of the location (e.g. Home). Click the **Next** button.

5   Select **Internet direct connection** and click the **Next** button.

```
Add Location
2. Select the Internet connection type
Select the Internet connection type.

  ⊙ Internet Direct    ○ Sharing Server    ○ Sharing Client -    ○ Sharing Client -
    Connection                                Wireless              Wired

                            [ Back ]   [ Next ]   [ Cancel ]
```
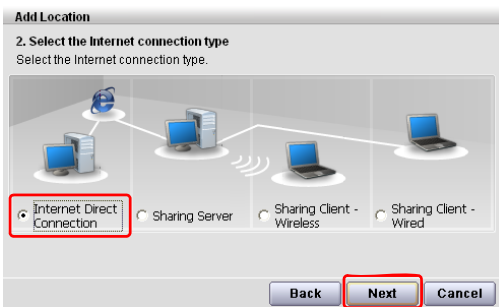
6   Select the LAN device, setup the IP address and click the **Next** button.

```
Add Location
3. Internet Connection Device Setting
Please enter IP address after choosing connection device.

Choose Device
[ Wired : Broadcom 440x 10/100 Integrated Controller    ▼ ]    ── Select Device

☑ Get IP Automatically
IP Address    [ 0 . 0 . 0 . 0 ]   Gateway    [          ]      ── Setup IP Address
SubNetMask    [ 0 . 0 . 0 . 0 ]   DNS Server [          ]
                                        [ Advanced ]

                            [ Back ]   [ Next ]   [ Cancel ]
```
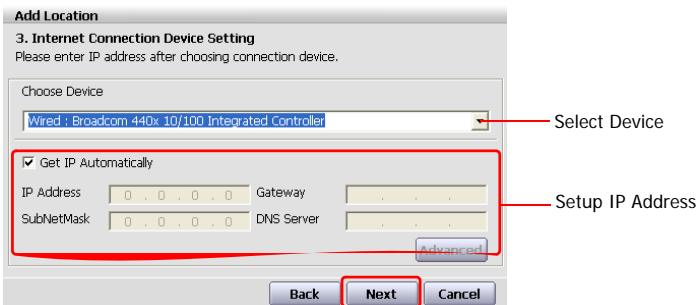
> **Select Device**
> Select a device to be connected to the Internet. Select either Wired LAN or Wireless LAN.
>
> **Setting up the IP Address**
> To allocate an IP address automatically (DHCP), select **Get IP Automatically**.
> To use a static IP address, unselect **Get IP Automatically** and enter an IP address. For IP address information, ask your network administrator.

7   When the Printer Setting window appears, click **Finish**.

To add a printer, click **Add Printer**. The Add Printer Wizard appears. Set up the printer according to the instructions displayed on the screen.

When the printer has been added, click the **Show printer** button, select the newly added printer and then click the **Finish** button.

> To not add a printer, select **No Default Printer** and then click the **Finish** button.
>
> When the network setting is complete, the '**Do you want to move to newly added location now?**' message appears. If you select '**Yes**', the network settings for the added location are applied.
> When the network settings for the added location are applied, the added place and the corresponding network connection information is displayed in **The detailed Information for window**.

When the network setting is complete, an icon for the added location is created within the Saved Locations window. Now you can use the Internet or add a new network location.

Menu

Current Place Information

Saved Locations
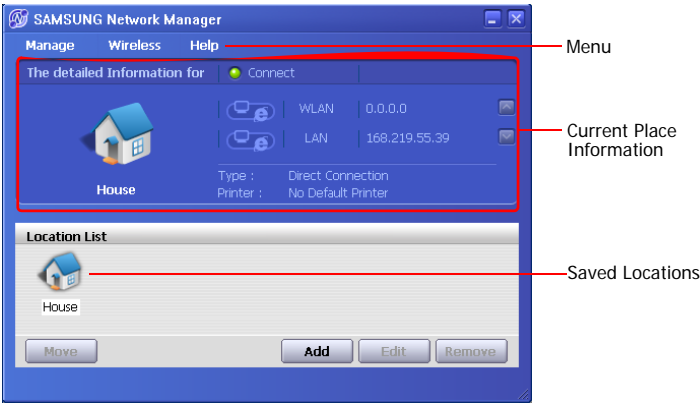
✎ **Wireless LAN AP Connection Procedures**

To use a wireless LAN, first connect to a wireless LAN AP and then you can access the network even when moving location. Or moving location and then you can access the network even when connecting to a wireless LAN AP

❶ Right-click over the **Wireless Network Connection** (   ) icon on the Taskbar and click **View Available Wireless Networks**.

❷ Click **Search AP** from the **Wireless** menu to search for wireless LAN APs.

Select an available wireless network (e.g. SAMSUNG) and click the **Connect** button. For information on available wireless LAN APs, ask your network administrator.

Available AP
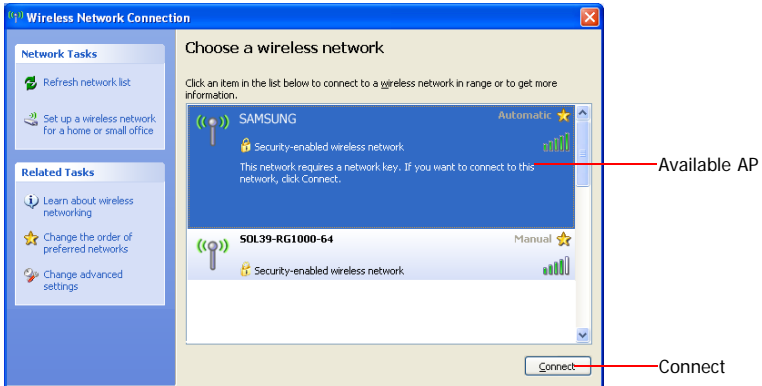
Connect

❸ The network key (security key) input window appears.

- If a network key has been set for the wireless LAN AP, enter the network key and click the **Connect** button. For the network key information, ask your network administrator.

- If no network key has been set for the wireless LAN AP, click the **Connect** button without entering the network key.

❹ When the computer is connected to the wireless LAN AP, the **Connected** message will appear on the Wireless Network icon in the Taskbar.

Using the network after moving location

By setting the network settings (IP address, printer setting, etc.) for each location, you can imme-diately access the network without performing the network setting procedures regardless of your location.

1 Run **Samsung Network Manager** when connected to the Internet.

2 Select an icon that represents the corresponding location from the Saved Locations window and then click **Move**.

3 When the network settings of the selected location are applied, the new location and the net-work connection information are displayed in **The detailed Information for window**.

Sharing Internet Access

This section describes the procedures to share Internet Access.

To share Internet Access, you first have to set a sharing server and a sharing client. When the setup is complete, you can access the Internet from the sharing client by connecting to the sharing server.

Sharing Server : A computer with a direct connection to the internet and a local network con-nection.
Sharing Client : A computer that uses the Internet by connecting to a sharing server without itself having a direct connection to the Internet.

You can connect a sharing server and a sharing client as follows. (See Figure 5 on ⎙ p.56)

	Sharing Server		Sharing Client
	External Internet Device	Client Device	
Connection 1	Wired LAN	Wireless LAN	Wireless LAN
Connection 2	Wireless LAN	Wired LAN	Wired LAN
Connection 3	Wired LAN	Wired LAN	Wired LAN

To use a wired LAN, connect the LAN cable to the LAN port and turn the wired LAN on, if it is turned off.
Press the **Menu** button and click the **Wired LAN ON** item to turn it on.

To use a wireless LAN, you have to turn it on, if it is turned off.
Press the **Menu** button and click the **Wireless LAN ON** item to turn it on. When the wireless LAN is turned on, the **Wireless LAN LED** (⬦) lights up.

For Connection 2, 3: To connect a sharing server and a sharing client using a wired LAN, con-nect the computers with a crossover LAN cable or network hub first.
For Connection 3: You have to connect a LAN card in advance.

As an example, Internet sharing procedures for [**Connection 1**], which connect the sharing server and the Internet through a wired LAN and connect the sharing server and the sharing client through a wireless LAN, are described below.

Setting Up a Sharing Server

1 Run **Samsung Network Manager** on the computer to be used as the sharing server.

2 Click the **Add** button.

3 Select a network location icon and enter the name of the location (e.g. Home). Click the **Next** button.

4 Select **Internet direct Connection for sharing** and click the **Next** button.

5 Set up the network device to be connected to the external Internet. Determine whether to use a firewall and select a network device to be connected to the external Internet (e.g. Wired LAN). Set the IP address and then click the **Next** button.
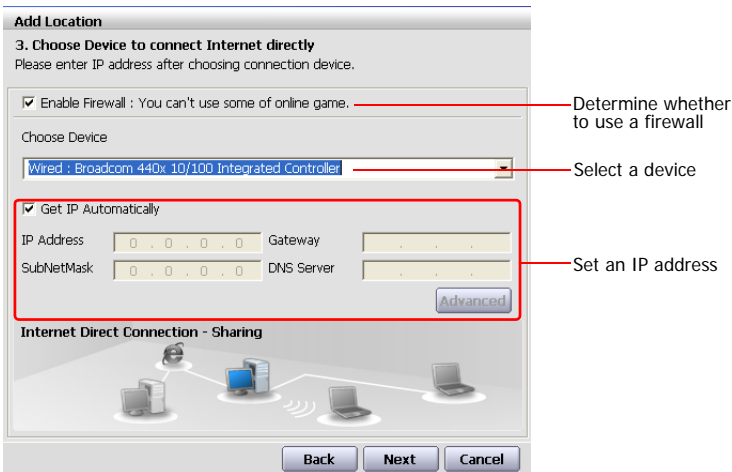
- To protect against external intrusion attempts, using a firewall is recommended.
- For more information on selecting a device and setting the IP address, refer to the description of item 6 of "Setting Up a Network" on page 55.

6 Select a network device to connect to the sharing client (e.g. wireless LAN) and click the **Next** button.

To Share Internet Access through a Wireless LAN
- In the Select Device field, select **Wireless**.
- In the **Wireless Connection Name** (e.g. Samsung) field, enter the network name.
- To use the network key (security key), select the "**Use Password ,,,**" option and enter a network key. Remember the network key because you have to re-enter the key on the sharing client to connect to the sharing server.

7 The setup information is displayed. Confirm the settings and click the **Next** button.

8 When the Printer Setting window appears, click **Finish**.

For the printer setup procedures, refer to the description of item 7 of "Setting Up a Network" on page 55

When the Shared Server setting is completed, set up the shared client.

Setting Up the Sharing Client

1 Run **Samsung Network Manager** on the computer to be used as a sharing client.

2 Click the **Add** button.

3 Select a network location icon and enter the name of the location. Click the **Next** button.

4 Select **Internet Sharing** and click the **Next** button.

> ● To connect through a wireless LAN, select **Internet Sharing - Wireless**.
> ● To connect through a wired LAN, select **Internet Sharing - Wired**.

5 Confirm the network device to be connected to the server and click the **Next** button.

> To connect through a wireless LAN, enter the **wireless connection name** (e.g. Samsung) you entered in the sharing server. If you have set a network key (security key) for the sharing server, enter the network key.

6 The setup information appears. Confirm the information and click the **Next** button.

7 When the Printer Setting window appears, click **Finish**.

For the printer setup procedures, refer to the description of item 7 of "Setting Up a Network" on page 55

When the settings are completed, you can use the Internet on the shared client.

> ● To access the Internet from the sharing client, the sharing server has to be on.
> ● To use the Internet on the sharing client, select a sharing client icon from the **Location List** window and then click the **Move** button.
> ● If the connection is broken while using the Internet on the sharing client, click the **Ap Active** from the **Wireless** menu to reestablish the connection.

Network Status Diagnosis

You can diagnose the network status when the network is not properly connected.

1 Run **Samsung Network Manager**.

2 Select **Auto Diagnosis** from the **Manage** menu.

3 The Network Connections figure window appears. Click the **Start** button to start the network diagnosis.

4 When the diagnosis is complete, out of order devices are marked by the exclamation mark icon. For detailed device status, read the description in the lower part of the window.

Reconnect and set up the device according to the diagnosis result.

Using Bluetooth Devices (Optional)

Bluetooth is a wireless communication technology that allows access to devices nearby such as a computer, mobile phone, printer, keyboard or mouse without a cable connection. Bluetooth enables file transmissions, Internet access, a private area network function, and access to a keyboard, mouse and printer between devices supporting the Bluetooth function without a cable connection.

> **Before You Start!**
> - The Bluetooth function is only available between devices supporting Bluetooth (computers, mobile phones, PDAs, printers, etc.), and the function may be restricted depending on the device profile.
> - The Bluetooth function is optional and may not be supported depending on your model.

Bluetooth Functions

- **File Transmission ( )**

  You can exchange files between 2 Bluetooth devices. You can exchange files with other computers, mobile phones, PDAs, etc.

- **Network Access ( )**

  You can connect to another computer with the Bluetooth function as you access a wireless LAN in Ad-Hoc mode or connect to the Internet through an AP or Internet Connecting Sharing Server.

- **Network Access through a Phone Connection ( )**

  You can connect to the Internet through a Bluetooth mobile phone.

- **Data Sync (Synchronization) ( )**

  You can synchronize the PIMS data (Outlook E-mail address data) with mobile phones, PDAs, notebook computers, etc. supporting Bluetooth.

- **Electronic Business Card (Vcard) Exchange ( )**

  You can exchange electronic business cards with mobile phones, PDAs, notebook computers, etc. supporting Bluetooth.

- **Sound Output ( )**

  You can listen to audio from the computer through another Bluetooth device or listen to audio of another Bluetooth device through the computer.

- **HID Connections ( )**

  You can connect a keyboard, mouse, joystick, etc. supporting Bluetooth.

> For more information about using the Bluetooth function, refer to the online help of the Bluetooth Device.

Bluetooth Software Setup

Bluetooth software is installed on computers supporting Bluetooth.

For first time use, set up the Bluetooth software as follows.

1 Right-click(press and hold the Stylus Pen for more than 3 seconds) on the **Bluetooth icon** ( ) at the bottom right of the taskbar, and select **Start Using Bluetooth** from the pop-up menu.
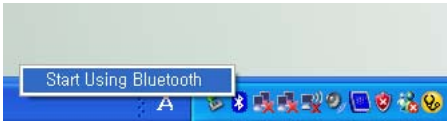
2 Click the **Next** button to start setting up.

> In the setting up steps, enter a device name to be displayed in the Bluetooth Manager program. Enter a **Name** in the Computer Name field and select **Laptop** for the Computer Type field.

> Also, a step appears for selecting the services to be provided by your Bluetooth device for other Bluetooth devices. At this point, the program automatically detects available services and displays them as selected. It is recommended not to change the default selection.
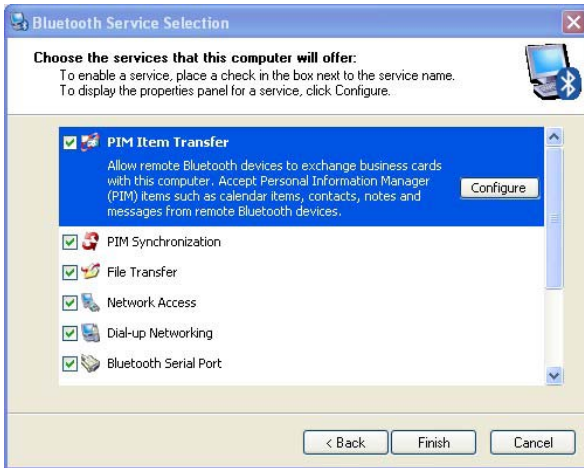
If you change the service settings, the drivers necessary for the additionally selected services are installed.

At this point, a warning message may appear informing you that there is no Microsoft logo. Since it does not affect the operation, continue the installation.

3 If the driver installation is complete, the next step proceeds which searches for nearby Bluetooth devices. Since you do not have to search while setting up, click the **Skip** button and finish the settings.

4 When the settings are complete, the **Bluetooth** icon menu of the notification area changes as shown in the figure.
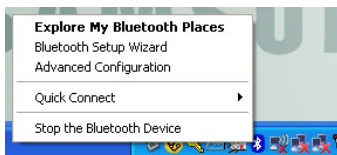
Using Bluetooth

Describes how to exchange files between computers supporting Bluetooth and how to use other Bluetooth devices.

Bluetooth Help

Bluetooth Help provides detailed procedures on using Bluetooth functions.

Double-click on **My Bluetooth Settings** on the **Desktop** and click **Help > Bluetooth Help** from the top menu.
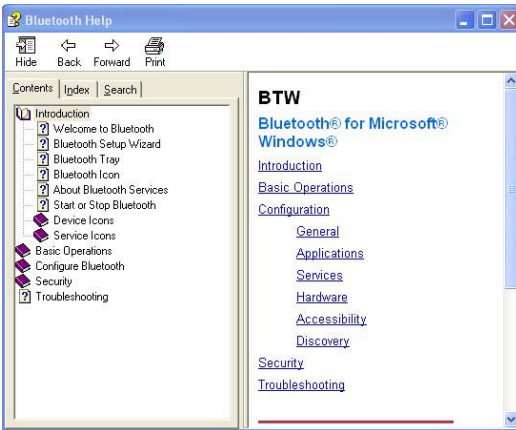
> Select Start > Help and Support > Networking and the Web > Networking > Wireless networking > Bluetooth devices (wireless) to view Windows Help.

Exchanging Files between Bluetooth computers

The procedures to exchange files and folders between Bluetooth computers are described below.

1 On the computer which is sending a file (hereafter Computer A), right-click(press and hold the Stylus Pen for more than 3 seconds) the **Bluetooth icon** ( ) on the taskbar and select **Quick Connection > File Transmission > Search for Device**.
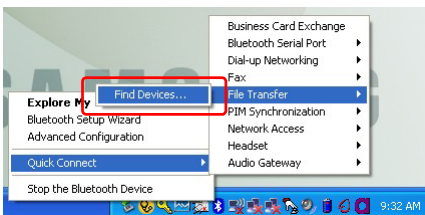
2 In the Select Device window, click on a computer to be connected (hereafter Computer B).
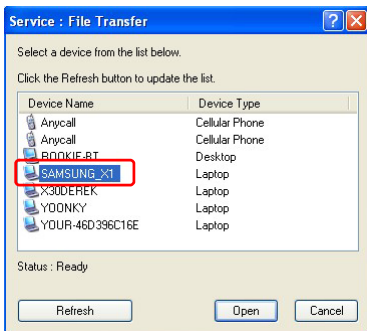
3 If the **Bluetooth PIN code requested** notification window appears on the bottom right task-bar, click on the window, enter the **Bluetooth PIN** code and click the **OK** button.
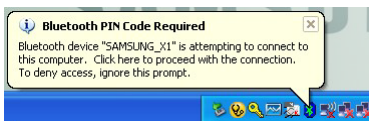
The **Bluetooth PIN Code** is a password used for the connection between two Bluetooth devices, the user just enter the same PIN Code (E.g. same numbers) on both Bluetooth devices to make a connection.

4 After a short while, the **Bluetooth PIN Code required** dialog box appears on Computer B, enter the code that you have entered in Step 3 above.

5 If the FTP File Access Privilege Request window appears on Computer B, click on the window. If the Select Access Permission window appears, click the **OK** button.

6   The file transmission window appears on computer A. Drag files or folders to send onto the window, and the files or folders are automatically transmitted.
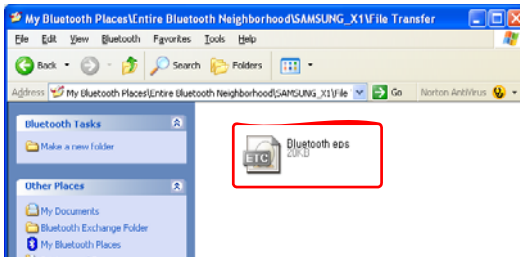
7   If the file transmission is complete, close the File Transmission window.

The received files are saved in the C:\Documents and Settings\[user name]\My Documents\Bluetooth Exchange folder.

Connecting Keyboard, Mouse, Joystick and Headset devices

The procedures to use Bluetooth HID devices (keyboard, mouse, joystick, etc.) or a headset, etc. on the computer are described below.

> The Bluetooth PIN Code is a password used for the connection between two Bluetooth devices, the user just enter the same PIN Code on both Bluetooth devices to make a connection.

1   Turn on the Bluetooth function on the device to connect to (mouse, keyboard, joystick or headset).

Some devices have a button to turn on the Bluetooth function, so refer to the corresponding device manual.

2   Double-click on the **My Bluetooth Settings icon** ( ) on the Desktop.

3   If the **My Bluetooth Settings** window appears, click on **View Devices within Coverage**.

If the device to connect to appears, click on the device. (E.g. mouse)
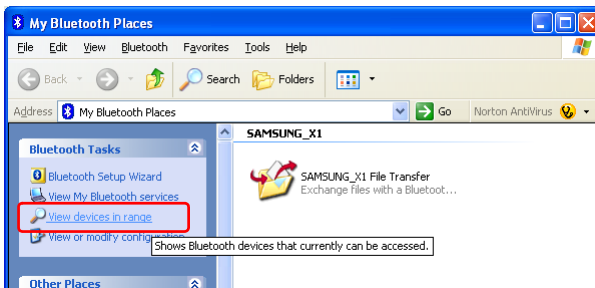
If the device does not appear, click the **View Devices within Coverage**. If the device has not appeared yet, since this menu changes to **Search Devices within Coverage**, click the **Search Devices within Coverage** to show the device.

4 If the **Bluetooth PIN Code** input window appears, enter a PIN code referring to the manual of the corresponding device. The PIN code for an HID device is generally printed in the manual of the corresponding device.

5 If you enter the PIN code, you can immediately use the device.

A Bluetooth keyboard and mouse work only in Windows. They will not work in MS-DOS mode or in Hibernation mode.

Stopping a Bluetooth device

Right-click(press and hold the Stylus Pen for more than 3 seconds) the **Bluetooth icon** ( ) on the taskbar and select **Stop the Bluetooth Device**.

To use a Bluetooth device after stopping it, select **Start Bluetooth device** as above.

Use Instructions

- Bluetooth devices must be within a 3m (10 ft.) distance.

- For a better communications environment, use the devices in an open space where no wall or obstacle exists.

- For a telephone connection, data synchronization, electronics business card exchange, fax transmission/reception, sound related functions, and serial port function, you can connect with only one Bluetooth device.

- Using the network connection or file transmission function, multiple Bluetooth devices can be connected. However, since connecting with multiple devices may slow down the data rate or make the connection unstable, connecting with one device at a time is recommended.

- The Bluetooth function of a Bluetooth PDA, mobile phone, mouse or keyboard may be turned off. To use them in connection with a Samsung computer supporting Bluetooth, you must check if the Bluetooth function of the device to connect to is turned on.
  For the procedures on turning on the Bluetooth function of a device, refer to the manual of the device.

- The services provided by Bluetooth devices may vary depending on their capability. For the services provided by Bluetooth devices, refer to the manual of the device.

Chapter 5. Using Applications

Introducing Programs

Using software supplied with the Samsung computer, you can easily use functions and troubleshoot problems. For detailed information, refer to the help of the corresponding software.

> **Before You Start!**
> Every software program may not be provided or the version may differ depending on your computer model.

Multi Media Functions

- **Program Launcher**

  The Program Launcher categorizes frequently used programs, folders, web sites so that you can easily manage and access them. This program is designed for the small LCD size so that you can easily use this program with the Stylus Pen or your fingers. (p.75)

- **AVStation premium ( )**

  AVStation premium is an integrated multimedia program that enables users to enjoy better music, photographs, video, movies, etc. quality all with a single program. (p.77)

- **AVStation Viewer**

  AVStation Viewer is a program that enables you to easily run AVStation premium in full screen. (p.88)

- **AVStation NOW**

  AVStation NOW is an integrated multimedia program that enables users to enjoy photographs, video, DVDs, music, etc. all with a single program and without booting Windows even when the computer is turned off. (p.88)

- **CyberLink PowerDVD ( )**

  CyberLink PowerDVD is a DVD player program supplied with the external USB ODD. To use this program, you have to install this program manually. (p.95)

- **Voice Recorder ( )**

  Voice Recorder is a program which enables users to make and play recordings. (p.97)

Management Functions

- **Samsung Update Plus ( )**

  Samsung Update Plus is software that examines and updates the Samsung software and drivers installed on your Samsung computer to the most recent versions. (p.73)

- **Samsung Network Manager ( )**

  Samsung Network Manager is a program that has been developed to enable users to configure the network and internet sharing settings easily. You can configure the network settings by the location and you can configure the Internet sharing settings and perform a network diagnosis. (p.55)

- **Samsung Battery Manager ( )**

  Samsung Battery Manager is a power management program that provides easy-to-use power management and power saving settings so that the battery usage time can be extended. (p.110)

- **Samsung Display Manager**

  Samsung Display Manager is a program that displays the setting status of some buttons on the screen.

  Example) The icon that appears when pressing the **Menu button** and clicking **Brightness Up**.

- **Touchkit ( )**

  Touchkit is a program used to calibrate the Stylus Pen when the pointer position is not correct. p.21

Troubleshooting Functions

- **Magic Doctor ( )**

  Magic Doctor is troubleshooting software provided by Samsung Computer. A user can diagnose system problems via one-click or by selecting diagnostic items. (p.114)

- **Norton AntiVirus ( )**

  Norton AntiVirus is a program that examines a computer and deals with found viruses. Since viruses may damage the files and data on your computer, it is recommended to examine your system frequently with the Norton AntiVirus program. (p.115)

Using Samsung Update Plus

Samsung Update Plus is software that examines and updates Samsung software and drivers installed on your Samsung computer to the latest version. To use Samsung Update Plus, your computer has to be connected to the Internet.

To Update Samsung Software and Drivers

1 Select **Start > All Programs > Samsung > Samsung Update Plus > Samsung Update Plus**.

> If this is the first time you are running the program, a window will appear asking you if you agree to the agreement in the window.
> Click Agree to use this software.

2 Click **Search for and Install Updates** and click the **Search for New Updates** button.
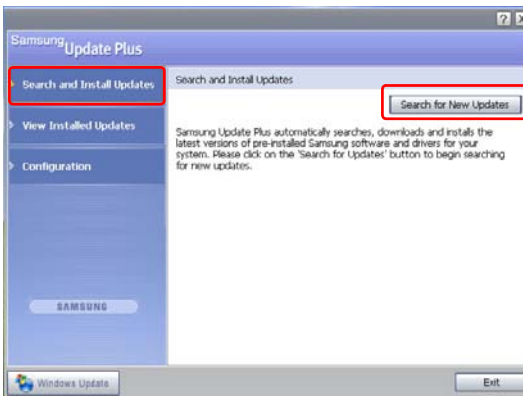
3 If there are available software or driver updates for your computer, the available updates will be listed. Select the required updates from the list and click **Install Update** to start the update.

(The update list on the screen may differ depending on the computer model.)

> **Updates that must be installed separately.**
> If you select **Install** as an update item that must be installed separately, a message appears informing you of this. Follow the instruction message to correctly install it.

Automatic update items display

By default, your computer is configured to automatically search for updates. If there is a new update available, this is notified in the notification area. Click the balloon help icon in the notification area. Here you will be able to find the latest available updates.
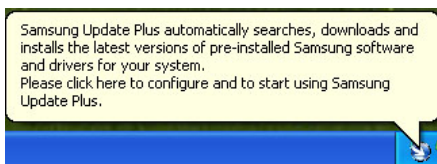
To change the automatic update settings, click the **Configuration** button in Figure 2 and change the settings.

Samsung Update Plus does not provide updates for additionally installed software and device drivers.

Program Launcher

The Program Launcher categorizes frequently used programs, folders, web sites so that you can easily manage and access them.
This program is designed for the small LCD size so that you can easily use this program with the Stylus Pen or your fingers.

Program Launcher Screen Layout

To launch the Program Launcher, click **Start > All Programs > Microsoft Touch Pack for Tablet PC > Program Launcher**.

The **Program Launcher** is launched.

Battery Charge Status
When clicking the icon, the Power Option Properties window appears.

Wireless LAN Status
When clicking the icon, the Network Connections window appears.

View Taskbar   **Clock**   **Minimize**   **Close**

Short-cut Icon

Category

Using Program Launcher

For example, the procedures to launch the **Calculator** on the Program Launcher are described below.

1 Run the **Program Launcher**.

2 Select **More Programs > Calculator**. The Calculator program is launched.
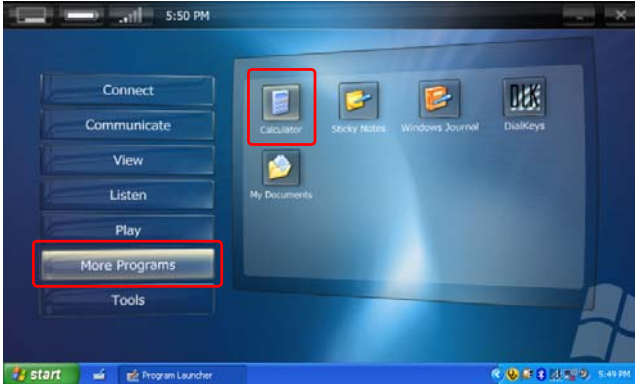
- **For more detailed usage**
  For more detailed usage, click Program Launcher Help from the Tools category.

- **Program Launcher User Setting functions**
  You can add a category and add or delete a shortcut icon.
  Click on Customize Launcher from the Tools category to change the settings.

Using AVStation premium

AVStation premium is an integrated multimedia program that enables users to enjoy music, photographs, video, movies, etc. all with a single program.

✎ **Before You Start!**
- AVStation premium is optional and may not be provided depending on the model.
- The screens used in this manual may differ from actual screens according to the program version.
- **TV Station is only available for systems supporting the TV function.**
- To play an audio CD or DVD, you have to connect the external USB ODD to the computer. The following descriptions presuppose that the external ODD is connected.
- For detailed usage, refer to the program help.

Start and Screen Layout

To launch the program, select **Start > All Programs > Samsung > AVStation premium > AVStation premium**.

Alternatively double-click the **AVStation premium icon** ( ) on the Desktop.
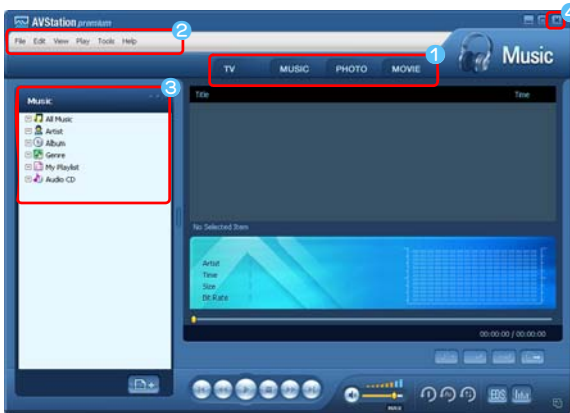
❶ **Station Bar**
❷ **Menu Bar**
❸ **Library**
❹ **Exit**
   Press the Exit button to exit the program.

MUSIC
You can play a music file or an audio CD.

PHOTO
You can view or edit a photograph (image), and also view the photographs through a SlideShow.

MOVIE
You can play a video (movie) file or a DVD/VCD title.

MUSIC Station

Launch AVStation premium and click MUSIC on the Station Bar.
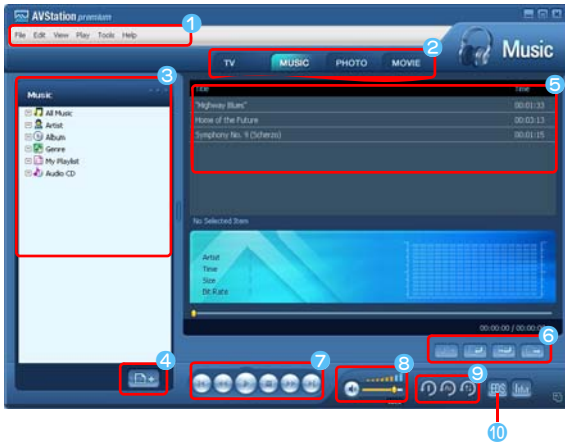
1. MUSIC Menu Bar
2. Station Bar
3. MUSIC Library
4. Register a File
5. Playlist
6. Playlist Control Buttons
7. Play Control Buttons
8. Volume Control
9. Play Options
10. EDS Setting Button

> **What is EDS (Enhanced Digital Sound)?**
> EDS (Enhanced Digital Sound) is a sound quality enhancement technology developed by Samsung Electronics. You can listen to clearer sound if you enable the EDS function when playing music or video on AVStation premium.

Playing an Audio CD

The procedures to play an audio CD are described below.

1 Launch AVStation premium and insert an audio CD into the CD drive.

2 In the **Audio CD** window, select **Play Audio CD using Samsung AVStation** and click the **OK** button.
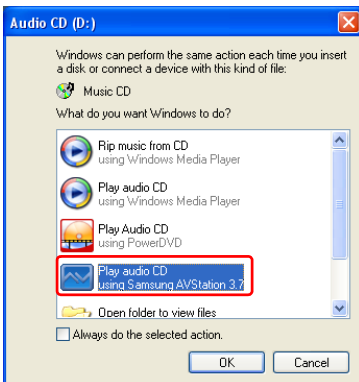
3 The tracks on the audio CD are displayed in the Playlist and the first track is automatically played.

If an audio CD is already in the CD drive, double-click the **album title** in the **Audio CD** folder of the Library and add the tracks to the Playlist. The tracks added to the Playlist are played.

Playing a Music File

If a music file is registered to the MUSIC Library, you can easily play the music file.

For the procedures to register tracks to the Library, refer to (p.80).

1 Move to **MUSIC Station** and double-click on **All Music**.

2 Double-click a music file. The file is added to the playlist and played.

- **Play a Track not registered to the Library**
  Click File > Open, select a music file to be played and click Open. The selected track is registered to the Library and played.
- **Creating My Playlist**
  My Playlist is a personal album with which you can collect, manage and play your favorite music files. For the procedures to create My Playlist, refer to the descriptions of MUSIC Station in Help.

Adding Music Files to the Library

MUSIC Library is a library holding music files used by MUSIC Station. The procedures to add music files saved on the computer to the Library are described below.

You can add files, folders or search and add files. As an example, the procedures to add a folder are described below.

1 Click on the **Register a File** ( ) button below the Library and click on **Add by Folders**.
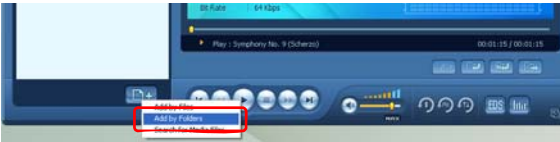
2 Select a folder which included music files and click the **OK** button. The music files in the folder are added to the Library.
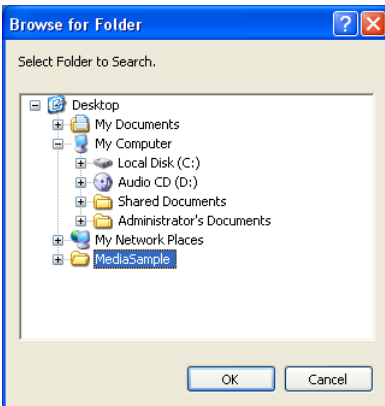
The tracks used in AVStation are automatically added to the Library.

PHOTO Station

Launch AVStation premium and click PHOTO on the Station Bar.

1 PHOTO Menu Bar
2 Station Bar
3 PHOTO Library
4 Register a File
5 Image Viewer Tab
6 Image Editor Tab
7 Move to a Higher-Level Folder
8 Preview/Zoom-in

Viewing an Image

The procedures to view images registered to the PHOTO Library one by one and through a Slide-Show are described below.

For the procedures to register image files to the Library, refer to (p.83).

1 Move to **PHOTO Station** and double-click on **All Images**.

2 Click on a folder which includes images, and the images in the folder are displayed in the Image Viewer window.
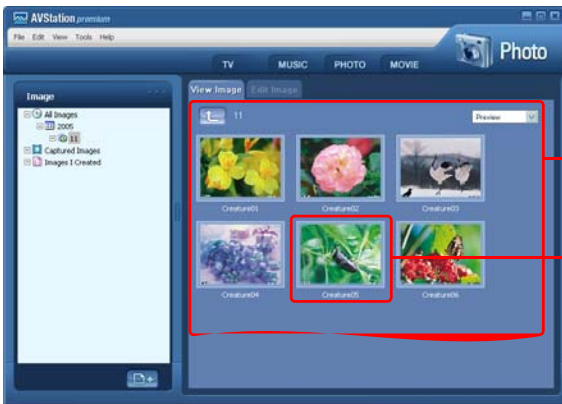
Image Viewer Window

Image

3 Double-click on an image. The selected image is zoomed in on.

- **Viewing an Image not registered to the Library**

  Click **File > Open**, select an image file to view and click **Open**.

  The selected image file is registered to the Library and displayed in the Image Viewer window.

- **Viewing an Image in Full Screen or through a SlideShow.**

  Click the **Full Screen** ([F]) button or **SlideShow** ([□]) button below the Image Viewer window.

  To return to the Image Viewer window, double-click on the screen.

- **Watching a SlideShow while Listening to Music**

  To watch a SlideShow while listening to music, play music from MUSIC Station and run Slide-Show.

- **Setting an Image as the Background.**

  Click the **Set as Background** ([□]) button below the Image Viewer window. The selected image is set as the Desktop background.

Editing an Image

You can change the shape of an image, edit an image or apply special effects to an image. The image editor functions are described below.

1 Select an image to edit in the **Image Viewer window**, and select the **Image Editor** tab. The Image Editor screen appears.

The Image Editor screen consists of an **Image Workspace window** and **3 Tool tabs**.

Image Workspace

Zoom In / Zoom Out

Tool Tabs
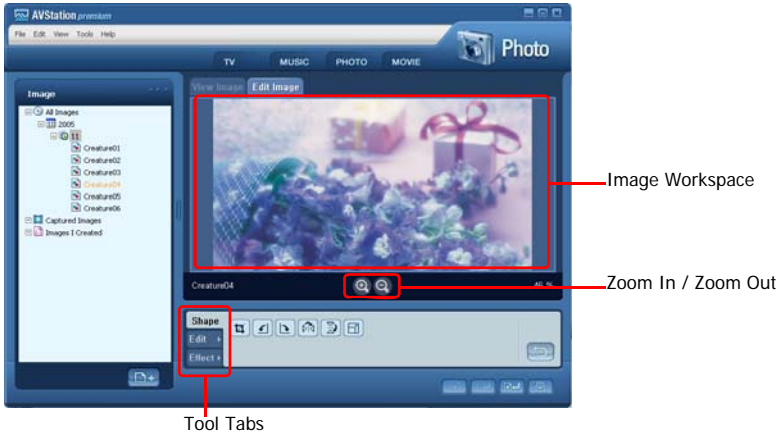
2 Edit the image using the Shape, Edit and Effect tools.

> **Shape tool**: Change the shape of an image through cut, resize.
> **Edit tool**: Draw a line, add some clip art or enter letters.
> **Effect tool**: Apply various effects to an image.

3 When finishing editing an image, click the **Save Edited Image** ( ) button below the Image Editor window. The edited image is saved.

Adding Images to the Library

The PHOTO Library is a library holding image files to be used by PHOTO Station. The procedures to add image files saved on the computer to the Library are described below.

You can add files, add folders or search and add files. As an example, the procedures to add folders are described below.

1 Click the **Register a File** ( ) button below the Library and click on **Add by Folders**.

2 Select a folder which includes image files and click the **OK** button. The image files in the folder are added to the Library.

> The image files used in AVStation are automatically added to the Library.

MOVIE Station

Launch AVStation premium and click on **MOVIE** on the Station Bar.
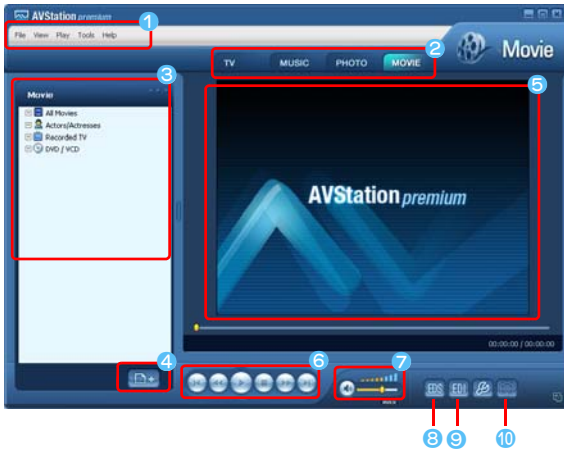
❶ MOVIE Menu Bar
❷ Station Bar
❸ MOVIE Library
❹ Register a File
❺ Video Play window
❻ Play Control Buttons
❼ Volume Control
❽ EDS Setting Button (p.78)
❾ EDI Setting Button
❿ Capture Button

What is EDI (Enhanced Digital Image)?

EDI (Enhanced Digital Image) is a visual quality enhancement technology developed by Samsung Electronics. You can view a clearer and sharper picture by enabling the EDI function when watching TV or playing a video on AVStation premium.

However, some TV tuners and graphics cards are not supported by EDI.

For information on EDS (Enhanced Digital Sound), refer to p.78.

Playing a DVD

The procedures to play a DVD title are described below.

> To play a DVD title, DVD playing software (e.g. CyberLink PowerDVD) must be installed. Install the DVD playing software first.

1 Launch AVStation premium and insert a DVD title into the DVD drive.

2 In the **'What do you want Windows to do?' window**, select **Play DVD Video using Samsung AVStation** and click the **OK** button.
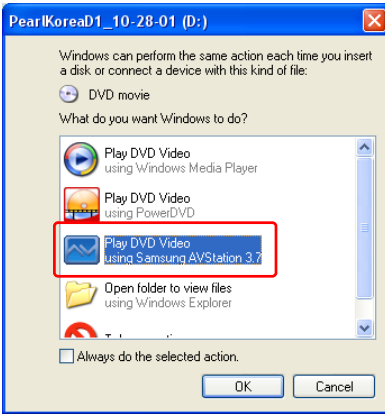
3 The DVD title is played.

> If a DVD title is already in the DVD drive, double-click the **DVD title** in the **DVD / VCD** folder of the Library. The DVD title is played.

Playing a Movie(Video) File

The procedures to play a video file registered to the MOVIE Library are described below. For the procedures to register files to the Library, refer to 📄 p.87.

1 Move to **MOVIE Station** and double-click **All Movies**.

2 Double-click a video file. The file is played.

- **Playing a Video File not Registered to the Library**

  Click **File > Open**, select a video file to be played and click **Open**. The selected file is registered to the Library and played.

- **Playing a Video File in Full Screen**

  1) Double-click on the current playback screen.

  2) The video is played in full screen. In full screen, move the mouse pointer to the bottom of the screen to show the Play Control bar.

  To play at the default screen size, double-click on the screen.

- **Capturing the Video Screen**

  Click on **Capture Current Screen** (📷) below the Play window when the desired image appears on the screen and click the **OK** button.

  Captured images are saved in the **C:\Program Files\Samsung\AVStation premium x.x\Data\Captured Images** folder.

  In addition, you can view captured images in the **PHOTO Station > Captured Images** folder.

Adding Videos to the Library

The MOVIE Library is a library holding video files to be used by MOVIE Station. The procedures to add video files saved on the computer to the Library are described below.

You can add files, add folders or search and add files. As an example, the procedures to add folders are described below.

1 Click the **Register a File** ( ) button below the Library and click **Add by Folders**.
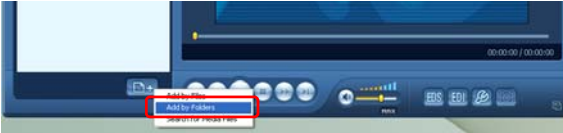
2 Select a folder which includes video files and click the **OK** button. The video files in the folder are added to the Library.

 The video files used in AVStation are automatically added to the Library.

Using AVStation NOW / AVStation Viewer

Using these programs, you can play music, photographs, video and movies in full screen. You can enjoy multimedia using AVStation NOW when the computer is off and using AVStation Viewer when the computer is on.

✎ **Before You Start!**

- AVStation NOW and AVStation Viewer are optional and may not be provided depending on the model.

- **AVStation NOW Restrictions**
  You can only use AVStation NOW when the computer is turned off.
  Using AVStation NOW, you can play files registered to the AVStation premium Library, saved to My Computer, and saved on the multi-card slot. (For the procedures to register files to the Library, refer to 📄 p.80, 📄 p.83 and 📄 p.87.)
  If you define a login password for a Windows user account or if the folder is protected, you cannot play the files in the folder on AVStation NOW.

- **AVStation Viewer Restrictions**
  Using AVStation Viewer, you can only play files registered to the AVStation premium Library. (For the procedures to register files to the Library, refer to 📄 p.80, 📄 p.83 and 📄 p.87.)

- Since the screen layout and usage of the two programs are similar, the manual describes the functions and screens on the basis of AVStation NOW.

- The screen figures may differ from actual ones depending on the program version.

- **TV Station is only available for systems supporting the TV function.**

- In AVStation NOW, the Auto Scaler function is not available.

Start / Exit AVStation NOW

Starting

To turn the computer on, slide the **Power switch/AVS NOW switch** to the left (🔲) and hold it for more than 0.1 seconds.

❗ If the **HOLD switch** on the left side of the computer is slid upwards all buttons of the computer are locked and do not work. If AVStation NOW is not launched, check the position of the **HOLD switch**.

Exiting

Move the mouse pointer to the top screen and click the **Exit** (▣) button.

Alternatively, slide and hold the **Power switch/AVS NOW switch** to the right for more than 0.1 seconds.

Start / Exit AVStation Viewer

Starting

Select **Start > All Programs > Samsung > AVStation premium > AVStation Viewer** from Windows.

Exiting

Move the mouse pointer to the top of the screen and click the **Exit** (▣) button.

Screen Layout

MUSIC

You can play a music file or audio CD.

PHOTO

You can view a photograph or image file one by one or in a SlideShow.

MOVIE

You can play a video, DVD or VCD title.

Settings

You can set the Music, Photo and Movie settings.

> **To move to the start screen while using the program**
> Click over the top left in the current screen. Then the [icon] icon appears. If you click this icon, you can move to the start screen.

MUSIC Station

The procedures to play a music file or an audio CD are described below.

Playing a Music File

The procedures to play a music file registered to the MUSIC Library are described below. (For the procedures to register files, refer to p.80.)

1 Launch AVStation NOW and click on **Music**.

2 Click on **All Music** and double-click a file in the right pane. The music file is played.

1 My Computer
This only appears in AVS-tation NOW. You can manually find and play files on My Computer or a removable disk.

2 All Music

3 Playlist Window

4 Music File

Playing an Audio CD

1 Launch AVStation NOW and insert an audio CD into the CD drive.

2 In the AVStation NOW start screen, click on **Music**.

3 Double-click the **Audio CD** in the left pane and double-click on an album or music file in the right pane. The selected music file is played.

PHOTO Station

The procedures to view images registered to the PHOTO Library one by one and through a Slide-Show are described below.

(For the procedures to register image files to the Library, refer to 📄 p.83.)

1 Launch AVStation NOW and click on **Photo**.

2 Click on **All Images** and double-click on an image file in the right pane.

❶ **My Computer**
This only appears in AVS-tation NOW. You can manually find and play files on My Computer or a removable disk.

❷ **All Images**

❸ **Image File**

3 The selected image is zoomed in on.

✏️ **To view an image in Full Sreen or through a SlideShow.**
Click on the **SlideShow** or **Full Screen** button below the zoomed in image.
To return to the previous status in the SlideShow or Full Screen, double-click on the screen. In AVStation NOW, double-click and click on **Back**.

MOVIE Station

The procedures to play a video (movie) file or DVD/VCD title are described below.

Playing a Movie File

The procedures to play a video file registered to the MOVIE Library are described below. (Refer to p.87.)

1 Launch AVStation NOW and click the **Movie**.

2 Click on **All Movies** and double-click a movie file in the right pane.

The movie file is played.

❶ **My Computer**
This only appears in AVS-tation NOW. You can manually find and play files on My Computer or a removable disk.

❷ **All movies**

❸ **movie File**

✎ **Showing the Play Control window**
When clicking on the screen once, the Play Control window appears at the bottom.

Playing a DVD

1 Launch AVStation NOW and insert a DVD title into the DVD drive.

2 In the AVStation NOW start screen, click on **Movie**.

3 Click on **DVD/VCD** and double-click on the DVD title. The DVD title is played.
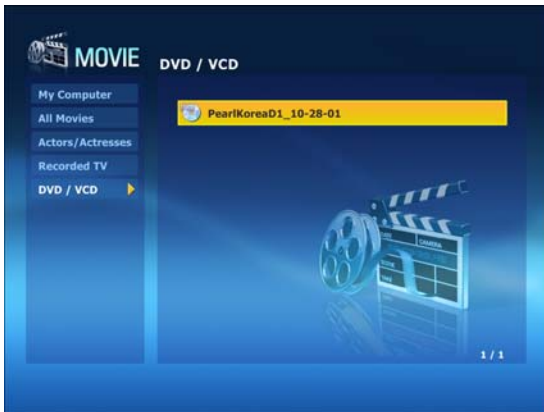
CyberLink PowerDVD

CyberLink PowerDVD is a DVD player program.

> **Before You Start!**
> CyberLink PowerDVD is supplied with the external USB ODD. So, it is optional and is not supplied with some models.
> In addition, to use this program, you have to install the program manually using the external USB ODD.

1 Insert a DVD title into the DVD drive.

2 Select **Play DVD Video Using PowerDVD** and click **OK**.
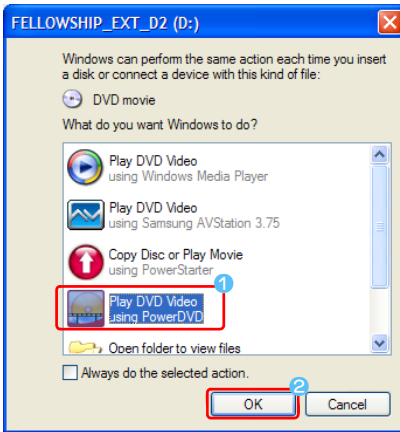
After a moment, the DVD title is played.

3 If the DVD title is not played automatically, click **Start > All Programs > CyberLink PowerDVD > CyberLink PowerDVD**.

4 Click the **Play** button in the CyberLink PowerDVD play control panel.

❶ PLAY
❷ SETTINGS

For more detailed usage

For more detailed usage, click **Start > All Programs > CyberLink PowerDVD > PowerDVD Help**.

DVD Region Code

A DVD title has a region code according to the international specifications so that it can be played only in that specific region. DVD titles with a region code will only play on a DVD drive with the same region code.

A DVD drive is sold with an empty region code and the region code is set when the user inserts a DVD title into the drive for the first time. Whenever DVD title is inserted with a region code that is different from that of the DVD drive, the region code of the DVD drive is automatically changed to the region code of the DVD title. However, the region code changes of a DVD drive is limited to 5 changes. After that, the region code is permanently fixed to the last region code.

Voice Recorder

Voice Recorder is a program which enables users to make recordings.

Recording

1 Click **Start > All Programs > Samsung > Voice Recorder > Voice Recorder**.

2 Start recording near the built-in microphone at the front of the computer by clicking the **Record** (●) button.

HELP

OPEN

PLAY   STOP   RECORD   SETTING

3 If the recording is complete, click the **Stop** (■) button. In the Save window, enter the file name and click **Save**.

A recording file is saved to the 'C:\My Recorded Files\' folder.

4 To play a recorded file, click the **Play** (▶) button.

To play a previously recorded file, click the **Open** (📂) and select the file.

When unable to make a recording using the built-in microphone
Click the **SETTING** button and check if the **Recording device** is set to **SoundMAX HD Audio I**, and the **Input Source** is set to **Microphone**. If the setting is not done properly, you will not be able to make a proper recording.
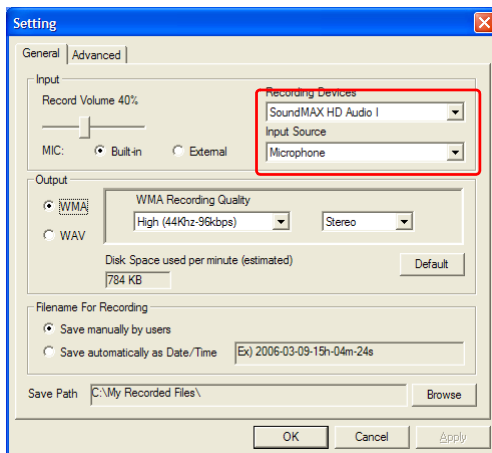
For more detailed usage, click the **Help** button.

Chapter 6. Settings

Using System Setup

The System Setup (BIOS) program enables you to configure your computer hardware.

Before You Start!

- Use the BIOS setup to define a booting password, change the booting priority or add a new device.
  Since incorrect settings may cause your system to malfunction or crash, take care when setting up the BIOS.
- The functions of the BIOS setup are subject to change for product function enhancement purposes.
- To adjust the LCD brightness, press the +, - **Volume Control** buttons while holding down the **Menu** button.

Starting System Setup

1 Slide the **Power switch** to the right to turn the computer on.

2 The booting screen (SAMSUNG logo) appears. Press the **Menu** button (▤) on the right side of the computer. When an external keyboard is connected, press the **F2** key.
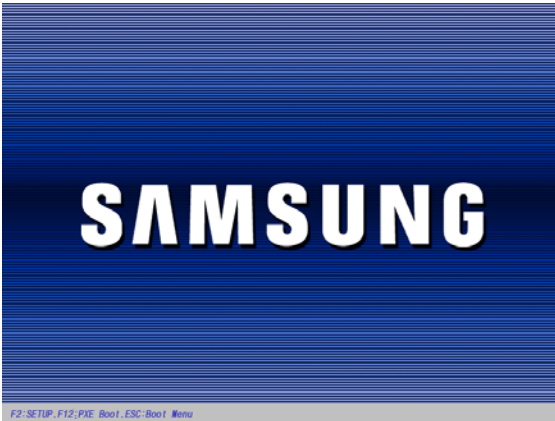
3 After a moment, the BIOS setup screen appears. The items of the BIOS setup may differ depending on the product.

PhoenixBIOS Setup Utility	
Main Advanced Security Boot Exit	➊
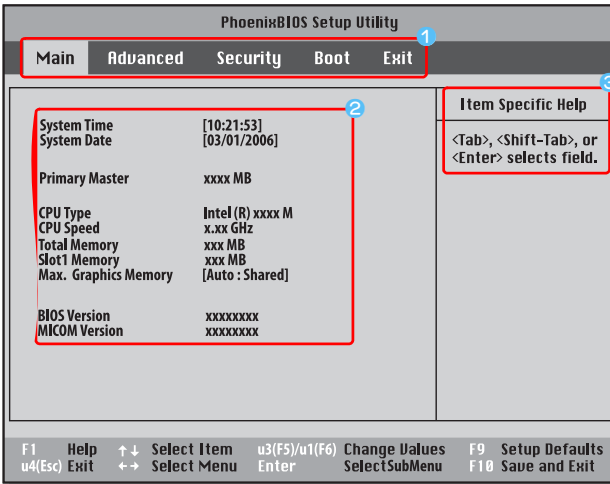
❶ **Setup Menu**

❷ **Setup Items**

❸ **Help**
Descriptions of the selected item are displayed.

Item Specific Help

`<Tab>`, `<Shift–Tab>`, or `<Enter>` selects field.

System Time	[10:21:53]
System Date	[03/01/2006]
Primary Master	xxxx MB
CPU Type	Intel (R) xxxx M
CPU Speed	x.xx GHz
Total Memory	xxx MB
Slot1 Memory	xxx MB
Max. Graphics Memory	[Auto : Shared]
BIOS Version	xxxxxxxx
MICOM Version	xxxxxxxx

| F1 | Help | ↑↓ | Select Item | u3(F5)/u1(F6) | Change Values | F9 | Setup Defaults |
| u4(Esc) | Exit | ←→ | Select Menu | Enter | SelectSubMenu | F10 | Save and Exit |

System Setup Screen

PhoenixBIOS Setup Utility	
Main Advanced Security Boot Exit	

		Item Specific Help
System Time	[10:21:53]	`<Tab>`, `<Shift–Tab>`, or
System Date	[03/01/2006]	`<Enter>` selects field.
Primary Master	xxxx MB	

Menu	Function
Main	Changes the basic system.
Advanced	Configures the advanced functions on your computer.
Security	Enables the security functions, including passwords.
Boot	Specifies the order of the boot devices and configures them.
Exit	Specifies how to exit System Setup.

System Setup Buttons(Keys)

The following Buttons(keys) are used in System Setup.

When an external keyboard is connected, you can use the keys enclosed in parenthesis. For example, you can press the **F1** key instead of the **Auto Scaler** button.

Setup Key	Button	Function
Auto Scaler Button (F1)		When pressing the **Auto Scaler** button, Help appears. When pressing the button again, Help disappears.
Up & Down Keys (↑ , ↓)		Move the **Joystick** up or down to move the cursor up and down.
Left & Right Keys (←, →)		Move the **Joystick** left or right to move the cursor left or right.
u3(F5) / u1(F6)		Press the **u3** (F5) / **u1** (F6) u3 and u1 buttons to change the value of an item.
u4(Esc)		Press the **u4** button to return to a higher-level menu or to move to the **Exit** menu.
Enter		Selects an item or opens a submenu.
(F9)		To initialize the setup settings, press the **F9** key on the external keyboard. If an external keyboard is not connected, select **Exit > Load Setup Default** from the setup menu.
(F10)		To save the changes press the **F10** key on the external keyboard. If an external keyboard is not connected, select **Exit > Exit Saving Changes** from the setup menu.

Exiting the System Setup
❶ Move to **Exit** menu **> Exit Saving Changes** using the **Joystick** and press **Enter**.
❷ Select **Yes** and press the **Enter** button. The System Setup is closed and Windows is started.

Setting a Booting Password

When setting a password, you have to enter the password to start up the computer or enter the System Setup. By configuring a supervisor password, you can restrict system access to authorized users only and protect data and files saved on the computer.

Before You Start!

Do not lose or forget your password. If you have forgotten your password, contact a Samsung service center. In this case, a service fee will be charged.

For the setup buttons, refer to the description of 'System Setup Buttons(Keys)'. 📄 p.102

Setting a Supervisor Password

A Supervisor Password is required to turn the computer on or to start System Setup.

When setting a Supervisor Password, users other than a supervisor cannot use the computer.

1 Select the **Security** menu in the System Setup.

2 In the **Set Supervisor Password** item, press <**Enter**>.
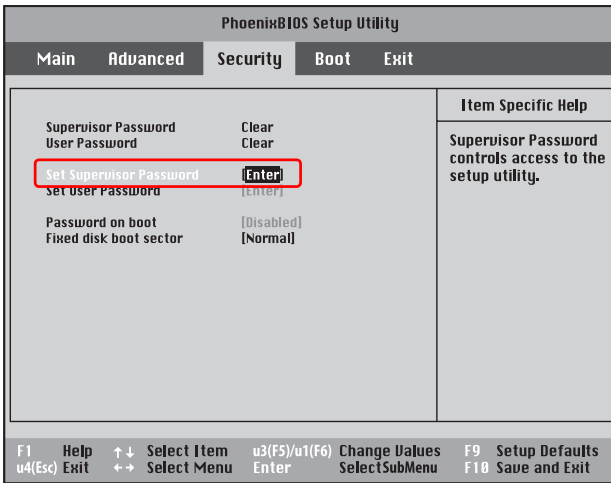
3 On the screen, the password setting buttons are described.

You can set a password by entering numbers between 1 and 4 with the **Joystick**.

Since the **u2** button is used as Delete (BackSpace) and the **u4** button is used as Cancel (Esc), enter the password using the **Joystick**.
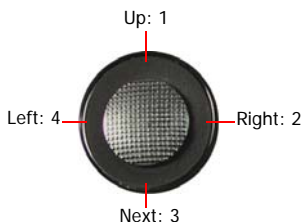
Enter a password, press <**Enter**>, re-enter the password for confirmation, and press <**Enter**> again.
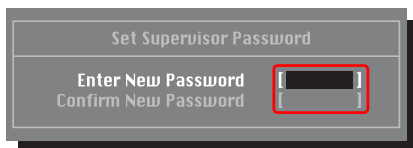
4 When a message confirming the password configuration appears in the [**Setup Notice**] window, press <**Enter**>.

The supervisor password has been set. The supervisor password is required to turn the computer on or to enter System Setup.

Setting a User Password

Users can start the system with their user password, but cannot enter the System Setup.

Before configuring a user password, a supervisor password must have been configured. Deactivating the supervisor password also deactivates the user password.

However, please note that deactivating a user password does not deactivate the supervisor password.

In the **Set User Password** item, press <**Enter**> and complete the procedures of Step 3 of Setting a Supervisor Password.

Activating the Booting Password

Before activating the booting password, a supervisor password must have been configured.

Set the **Password on boot** option to **Enabled**. From now on, system booting will not proceed without the password.

Deactivating the Password

1 On the password to be deactivated, press <**Enter**>. For example, to deactivate a supervisor password in the **Set Supervisor Password** item, press<**Enter**>.

2 In the **Enter Current Password** item, enter the currently configured password and press <**Enter**>.

3 Leave the **Enter New Password** item field empty, and press <**Enter**>.

4 Leave the **Confirm New Password** field empty, and press <**Enter**>.

5 In the [**Setup Notice**] window, press <**Enter**>.

The password is deactivated.

Changing the Booting Priority

The default booting priority of your computer is the CD-ROM, a removable device and the hard disk drive in this order. You can change the booting priority using the Boot menu of the System Setup.

1 Select the **Boot** menu in System Setup.

2 Press <**Enter**> on the **Boot Device Priority** item.

```
              Boot Device Priority

      CD-ROM/DVD
      Removable Devices
      +Hard Drive
```
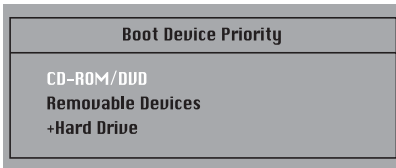
3 Use the **u1** or **u3** button to move a booting device up.

4 Exit from the **Boot** menu by pressing the **u4** button and move to the **Exit > Exit Saving Changes** menu using the **Joystick** and press <**Enter**> to save the settings and exit the setup.

Using the Battery

Please refer to the following instructions when running the computer on battery power, without connecting the AC power. A Lithium-Ion smart battery is supplied with this computer.

Before You Start!
Carefully read and follow the precautions printed on the battery before using the battery.

Precautions

- Use only charges specified in the user's guide.
- Never heat the battery pack, put it near or in a fire or use at a temperature higher than 60°C, as this may cause fire.
- Never cause a short circuit between the battery pack terminals or disassemble the battery pack.
- Carefully read and follow the precautions printed on the battery and the safety instructions in the user's guide before using the battery.
- Please refer to the system operation environment of this manual and operate and the store the battery at room temperature. (p.138)

Removing and Attaching Battery

1 Shutdown the system and place the computer upside down on a flat surface.

2 Pull the two battery latches outwards ( ), then remove the battery.
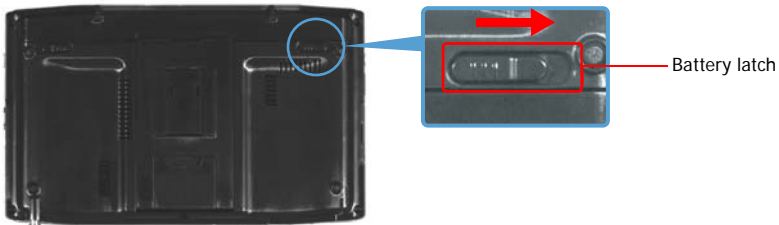
Battery latch

3 To install the battery again, slide the battery into the system. The battery latches move inwards and fix the battery automatically.

Check if the battery latch has been moved inwards.

Charging the Battery

1 Attach the battery and connect the AC adapter to the DC-in jack of the computer.

The battery will then be charged.

2 When a charge is complete, the Charge LED turns green.

Status	Charge LED
Charging	Amber
Charging complete	Green
AC adapter not connected	Off

Monitoring the Battery Charge

You can view the battery charge status by completing the following procedures.

Viewing through the Menu button

Press the **Menu** button and press on **Battery**.

Viewing through the Control Panel

Select the **Start > Control Panel > Performance and Maintenance > Power Options > Power Meter** tab.
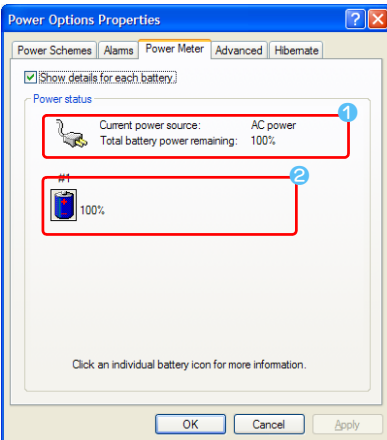
❶ Power Supply Status
❷ Remaining Battery Charge

Viewing on the battery

Separate the battery and press the **PUSH** button on the battery. The remaining battery charge (%) will be displayed.

![Battery Warning]

Battery Warning

- You will hear an alarm when the remaining battery charge reaches below 10%.
  In this case, connect the AC adapter or turn off the computer and install a fully charged battery.
- When the remaining battery charge is under 3%, the computer automatically saves the current work and turns off. This may differ according to the settings in the **Control Panel > Performance and Maintenance > Power Options > Alarms** tab.

Using the Battery

A battery is an expendable supply, so when using it for a long time, the capacity/battery life is shortened. If the battery life is reduced to under half of the initial time, we recommend that you purchase a new battery.

For long periods of not using the battery, keep the battery after discharging it. This extends the battery life time.

Extending the Battery Usage Time

Using Samsung Battery Manager

Battery Manager is a power management program that enables using battery power efficiently. You can select an optimized power mode according to your requirements.

Click **Start > All Programs > Samsung > Samsung Battery Manager > Samsung Battery Manager**.

Change Power Mode

Power Saving Effects

You can only change the detailed configuration in Custom Mode.
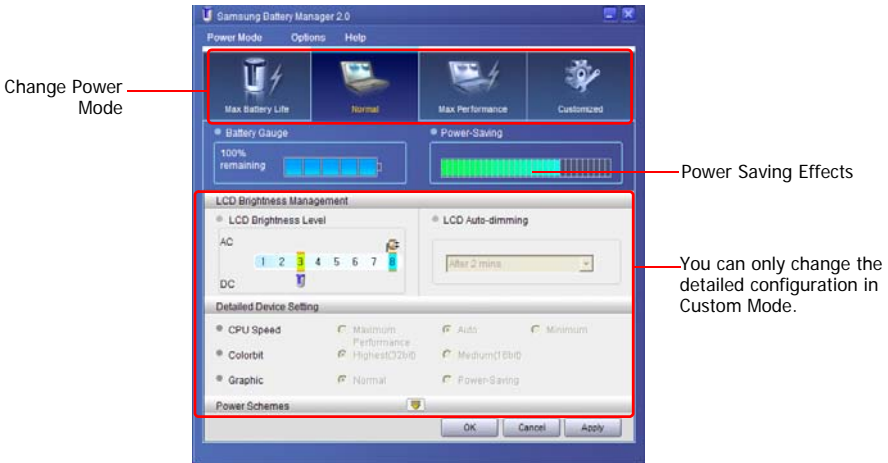
Maximum Battery Saving Mode

This mode is appropriate for conditions which require the maximum battery usage time. This may degrade the performance of the system.

Normal Mode

This mode is appropriate for normal conditions. Both system performance and battery usage time are optimized.

Maximum Performance Mode

This mode is appropriate for conditions that require maximum system performance. Therefore, the battery usage time may be reduced in this mode.

Custom Mode

In this mode, a user can configure a detailed configuration to save the battery usage time. You can adjust the LCD brightness, the system standby time, the screen color quality, and the graphic mode values.

Power Saving Effect

This shows the relative battery usage time for each power mode. The more effective the power saving, the longer the graph will appear.

When Running a Game or Multimedia Application

A game or multimedia application may not work smoothly in Maximum Battery Saving Mode. Using this is recommended when the AC adapter is connected or in Normal or higher modes.

Samsung Battery Manager Power Modes

● Since the Maximum Battery Saving Mode of the Samsung Battery Manager controls the system operating speed to extend the battery usage time, the performance of the system may be degraded.

● When changing the power settings in Custom Mode in the Samsung Battery Manager, the settings of the Power Options Properties window are changed accordingly.

● To use Normal Mode in Samsung Battery Manager after reinstalling Windows XP, you have to install the Samsung Battery Manager using the system software media.

Turning Off Unnecessary Devices

Turning off unnecessary devices extends the battery usage time.

1 Select the **Start > Control Panel > Performance and Maintenance > System > Hardware** tab and click on **Device Manager**.

2 Right-click(press and hold the Stylus Pen for more than 3 seconds) a device you are not using, and select **Disable**.
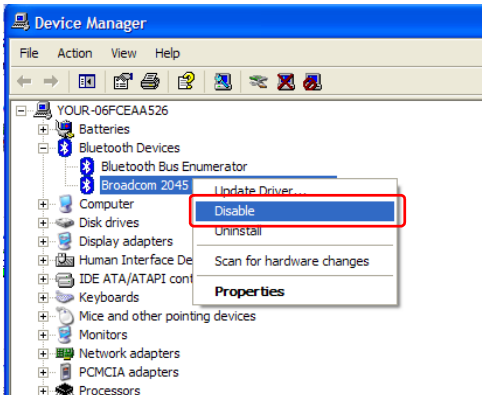
Example) Wireless LAN, Bluetooth, etc.

Battery Calibration

When charging/discharging the battery repeatedly for only a short time, the battery usage time may be reduced by the difference between the actual battery charge and the remaining charge display. In this case, the actual battery charge and the remaining charge display will be the same by discharging the battery completely using the Battery Calibration function, and then recharging it again.

1 Disconnect the AC power adapter after turning off the system.

2 Restart your computer and press the **Menu** button when the SAMSUNG logo appears, to start System Setup.

3 Using the arrow keys, select **Smart Battery Calibration** in the **Boot** menu and press **Enter**.

```
                        PhoenixBIOS Setup Utility

      Main    Advanced    Security    Boot    Exit

                                                  Item Specific Help
    ▶ Boot Device Priority
                                                  Select system boot
      NumLock                      [Off]          options.
      Summary screen               [Disabled]
      Boot-time Diagnostic Screen  [Disabled]
      PXE OPROM                    [Only with F12]

      Brightness Mode Control      [Auto]
      Wireless Device Control      [Always On]

      Smart Battery Calibration




    F1   Help    ↑↓  Select Item   u3(F5)/u1(F6) Change Values  F9   Setup Defaults
    u4(Esc) Exit ←→  Select Menu   Enter         SelectSubMenu  F10  Save and Exit
```

4 Highlight **Yes** in the [Battery Calibration Confirmation] window and press **Enter**.

The Battery Calibration function is activated and the battery is discharged by force. To stop the operation press the **u4 (Esc)** button.

This operation requires 3~5 hours depending on the battery capacity and the remaining battery charge.

Chapter 7. Troubleshooting / Appendix

Using Magic Doctor

Magic Doctor is troubleshooting software provided by Samsung Computer. A user can diagnose system problems via one-click or by selecting diagnostic items.

1 Click **Start > All Programs > Samsung > Magic Doctor > Magic Doctor**.

2 Click on an icon at the top of the screen.

- – **OneClick Diagnosis:** You can diagnose problems affecting the system connections and system operations via one-click.
- – **User Diagnosis:** You can select the necessary diagnostic items and diagnose system problems.
- – **System Recovery:** Launches the Restoring the System function of Windows XP. 📄 p.116

3 When the system diagnosis is completed, the diagnostic result appears.

If problems are found, click the **Cure** button to correct the problem. Magic Doctor starts the correction operations.

Using Norton AntiVirus

The Norton AntiVirus software is provided as the virus inspection program.

Before You Start!

- When you first run Norton AntiVirus, the Norton AntiVirus Configuration window pops up. If you complete the configuration and your computer is connected to a network, you can download and install the latest updates via the network. When the live update is done, virus scanning starts automatically. To stop scanning, click on Stop.

- If you didn't configure the Norton AntiVirus program, a security alert icon (🛡) appears in the notification area on the right of the task bar. This indicates that the current security state of your computer is not secure. Configure the virus-scanning program to make the security alert icon disappear.

1 Select **Start > All Programs > Norton AntiVirus > Norton AntiVirus 200x**.

2 Click **Scan Virus**, select drive to inspect, and click **Scan**.

Vaccines for the latest viruses can be downloaded by connecting to Symantec's homepage.
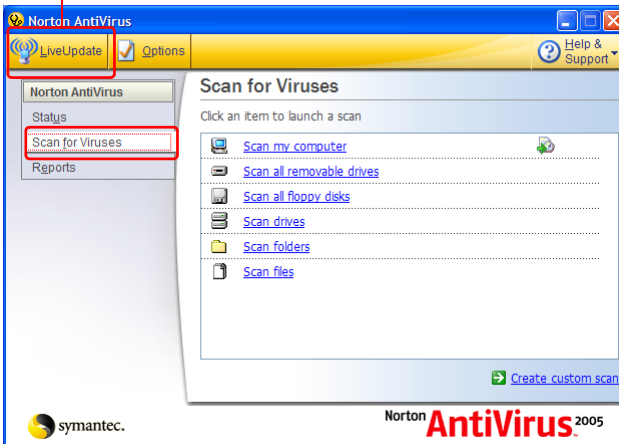
3 If a virus is detected, select Automatic in Norton AntiVirus, and click **Next** to delete the virus.

Restoring the System

This description is only for models running Window XP.

The System Restore function allows you to restore your computer to an earlier copy (called restore point), and restores the settings if a problem occurs.The System Restore function is provided by Windows XP to enable the resolution of various problems without reinstalling Windows XP completely.

You can use System Restore in the following cases.

- **The system files are deleted or damaged by mistake.**
- **The system is unstable or a problem occurs in a device driver.**
- **A problem occurs after changing system files such as the registry.**
- **A problem occurs after installing a new program.**

Creating a Restore Point

Restore points are created at predetermined times and at times of significant system events such as when a program or a driver is installed. You can also decide when to create your own restore points.

There has to more than 200MB of free space on the hard disk drive. If the disk space is insufficient, a saved restore point might be deleted.
You are recommended to create a restore point when you have purchased a new computer and before installing new programs or device drivers. Before creating a restore point, check that the computer is operating properly.

The procedures to create your own restore point are described below.

1 Click **Start > All Programs > Accessories > System Tools > System Restore**.

2 Select "Create a restore point", and click **Next**.
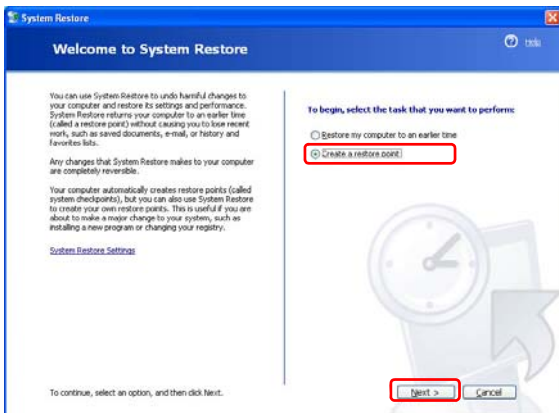
Since changes made after the Recovery Point may not be maintained, please back-up all necessary files to another location before performing system recovery.

3 In the Restore point description box, type a name to identify the restore point, and than click **Create**. A restore point has been created.

Returning your computer to an earlier restore point

The procedures to return your computer to an earlier restore point when a problem has occurred are described below.

1 Click **Start > All Programs > Accessories > System Tools > System Restore**.

2 Select "Restore my computer to an earlier time", and then click **Next**.
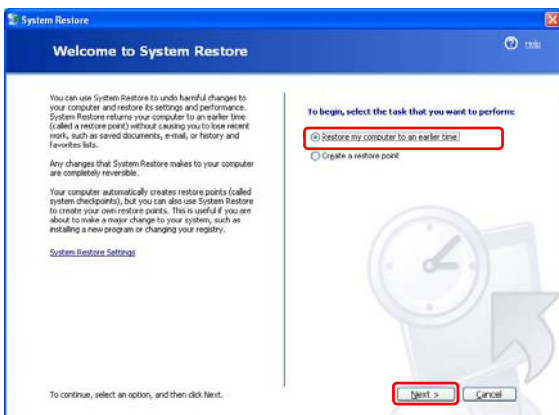
3 Select the desired restore date from the calendar restoration and select the desired restore point from the list, and then click **Next**.
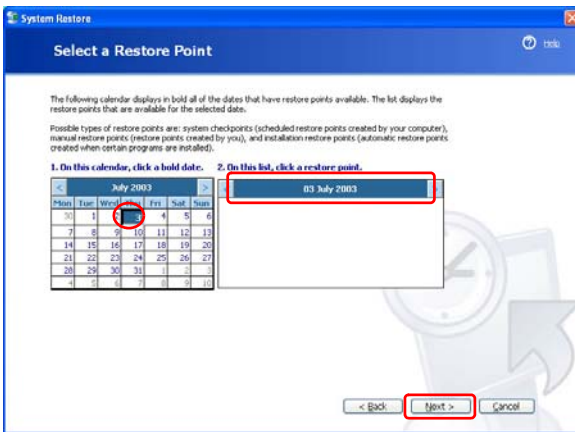
The date of the restore point is displayed in bold font.

4 Confirm the selected restore point and click **Next**. System Restore shuts down Windows, and starts the restoration processes.

5 After the restoration is complete, Windows restarts. In the [System Restore completed] dialog, click **OK**.Your computer has been restored to the selected restore point.

Undoing the last restoration

The procedures to undo a restoration are described below.

1 Click **Start > All Programs > Accessories > System Tools > System Restore**.

2 Select "Undo my last restoration", and then click **Next**.

3 Confirm the restoration information to undo, and than click **Next**. System Restore shuts down Windows and starts undoing the restoration.

4 After the undo restoration is complete, Windows restarts. In the [Undo the last restoration completed] dialog, click **OK**.Your computer has been restored to the point prior to the last restoration.

Reinstalling Software

If you have reinstalled the Windows operating system, or the system and program do not operate properly, you can re-install the driver and program using the system software Media.

Before You Start!
If a program has a problem, it is recommended to remove the program using Add or Remove Programs in the Control Panel and to reinstall it using the system software media.
To use the system software media, **the external USB ODD must be connected** to the computer. The following descriptions presuppose that the external USB ODD is connected.

This computer is optimized for Microsoft Windows XP, therefore drivers for other operating systems are not included on the System Software Media.

Running the system software Media

Insert the system software Media into the external USB ODD. The initial screen appears automatically.
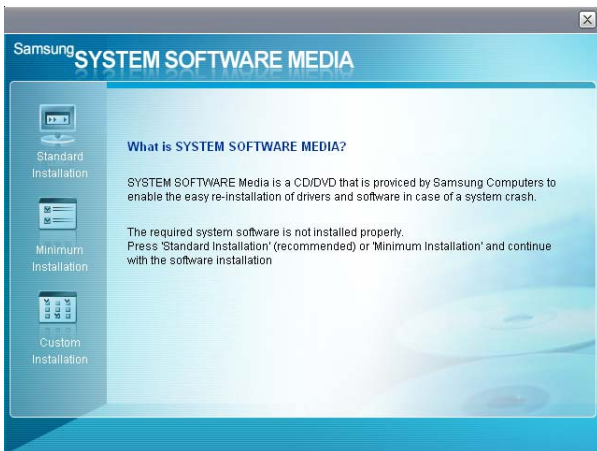
- **Standard Installation**: This displays a list of drivers or programs that are not currently installed on your computer from the system software Media provided. All necessary components are installed using the factory defaults.

- **Minimum Installation**: This displays the components (driver, Windows programs, etc) that, if not installed, may cause problems with the system performance. You can install only required components.

- **Custom Installation**: You can customize the installation of drivers and programs.

Installing drivers and programs

1 Click **Standard Installation** in the main window of the System Software Media. (Standard Installation is recommended)

2 The system is scanned to display the drivers and programs that need to be installed.

3 Click **OK**. The drivers and programs are automatically installed as factory defaults.
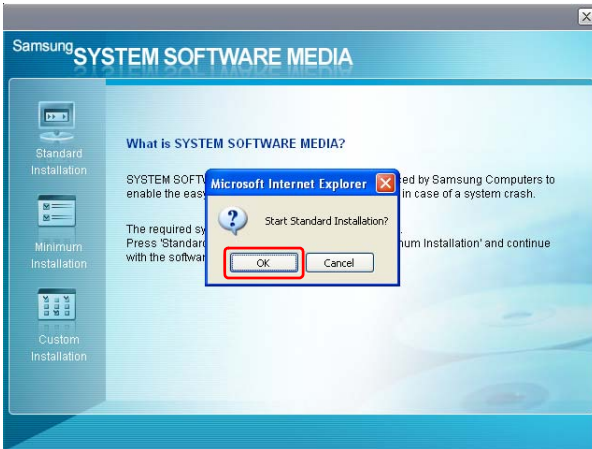
4 When done, restart the system.

Reinstalling Windows XP

If Windows XP is not operating properly due to an error in the system, or if you have replaced the hard disk drive, you can reinstall Windows XP using the system recovery media.

Before You Start!

- To use the system recovery media, the external USB ODD must be connected to the computer. The following descriptions presuppose that the external ODD is connected.

- There are two Windows installation modes: Standard Installation, which allows users to change options, and Quick Installation, which allows users to install Windows easily.

- If you cannot run Windows, refer to p.125 to install Windows.

- When Windows does not run or when trying to install Windows using the Standard Installation of the system recovery media, a USB external keyboard is necessary.
  Before turning the computer on, connect the USB keyboard. Then, install Windows.
  If you connect the USB keyboard during the installation, the system will not recognize the USB keyboard.

Reinstalling Windows may delete the data on the hard disk drive such as files, programs, etc. In order to minimize damage from data loss, please remember to always back up your data. Samsung Electronics is not liable for any data loss.

Running the System Recovery Media

Insert the **system recovery media** into the external USB ODD. The start screen automatically appears.
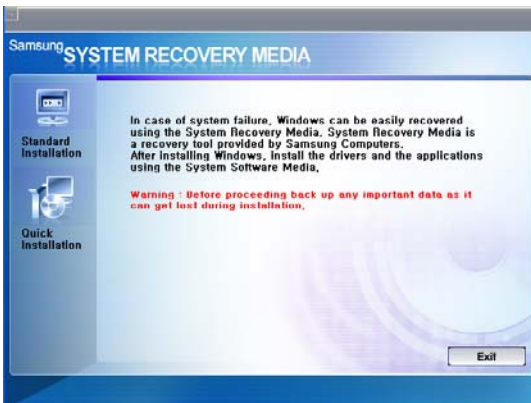
- **Standard Installation**
  You can change the settings for Regional and Language Options, Date and Time, Computer Name, User Accounts, etc. during the Windows installation.

  However, after reinstalling Windows, you have to manually reinstall device drivers and programs using the system software media.

- **Quick Installation**

  This reinstalls Windows with the user data and the system settings intact by over-writing the Windows folder.

  Since the user data and the system settings in the already existing Windows folders are pre-served, you do not have to reinstall device drivers and programs.

Quick Installation

The Windows Quick Installation procedures are described below.

You can install using the Stylus Pen.

1 In the system recovery media start screen, click **Quick Installation**.
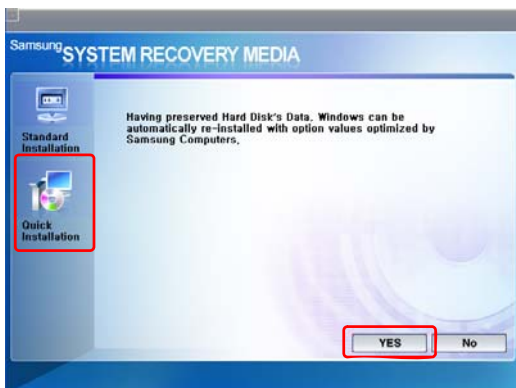
2 The description for the Quick Installation appears.

Click **Yes** to start Windows installation.

When the installation is complete, the Windows Desktop appears. Remove the **system recovery media** from the ODD.

Standard Installation

The Windows Standard Installation procedures are described below.

> For the Standard Installation, a USB keyboard is necessary. You have to connect the USB keyboard before turning the computer on. The descriptions assume that you are using an external USB ODD and USB keyboard.

1 In the system recovery media start screen, click **Standard Installation**.
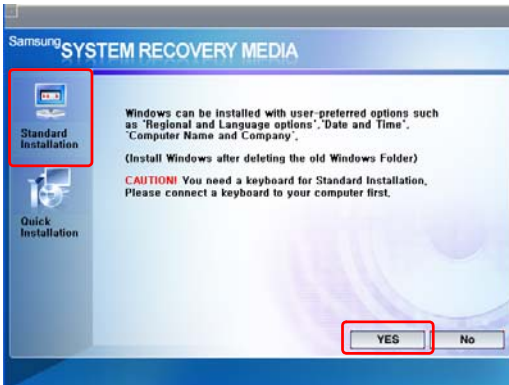
2 The description for the Standard Installation appears.

Click **Yes** to start the Windows installation. The system restarts and the Windows installation begins.

> If you have set a booting password, enter the booting password when booting the system to continue the installation.

3 After the system has restarted, the message '**Press any key to boot from DVD**' appears. Do not press any key at this time.

After awhile the partition setting screen appears.

To not change the partition, move to the C:Partition 2 using the direction key (↓) and press <**Enter**>.

> Partition setting is a function that divides the hard disk drive into one or several partitions. Note that changing the partition deletes all of the data on the hard disk drive.

4 Select the folder to install the Windows operating system.

To delete the previous version of Windows and install in the current folder, press <**L**> on the keyboard.

| | If you press the **ESC key** to select another folder for the installation, new Windows folders are created causing a risk of dual booting. |

5 After the installation process copies the necessary folders for the Windows installation, restart the system, and the message "**Press any key to boot from DVD**" is displayed. You do not need to enter anything. In a moment, the Windows XP installation screen will appear to proceed with the installation.

6 When the **Regional and Language Options** window appears, click **Next**.

7 When a window that requires your **name and organization** pops up, enter your name and the organization and click **Next**.

| | A window that requires the computer name and the administrator password appears. Enter the computer name and the administrator password and click Next. |

8 When the **Date and Time Setting**s window appears, click **Next**. Setup continues and the system restarts.

9 When the system restarts, the message "**Press any key to boot from DVD**" is displayed. You do not need to enter anything. In a moment, the Windows XP Desktop appears. When you see the Windows desktop, this means that the installation process is completed.

10 Remove the **system recovery media** and install the device drivers and applications from the **system software media**. (p.119)

Installing Windows When You Cannot Run Windows

If you cannot run Windows, you have to boot the system with the system recovery media and reinstall Windows.

> **!** An external USB ODD and USB keyboard must be connected before starting the installation.
> You have to connect the USB keyboard before turning the computer on.
> If you connect the USB keyboard during the installation, the system will not recognize the USB keyboard.

1 Insert the **system recovery media** into the external USB ODD and turn the computer on.

2 When the system restarts, the message "**Press any key to boot from DVD**" is displayed. You do not need to press anything.

3 After awhile the partition setting screen appears. To install Windows in the selected partition without change, press <**Enter**>.

4 Select a **file system** (format). To keep the current file system, press <**Enter**>.

5 Select the folder to install the Windows operating system.

To delete the previous version of Windows and install in the current folder, press <**L**> on the keyboard.

6 The subsequent procedures are the same as those after Step 5 of <**Standard Installation**>. (📄 p.124)

Questions and Answers

This section provides information on possible problems, solutions and other references for system use.

Windows Related

Q1   The system does not shutdown properly.

A   When the system does not shutdown normally, press and hold the Power button until the system manually shuts off. If the Power-Saving Mode is configured into the Power button, press and hold for more than 4 seconds to shut the system off. When the system is turned on after such manual shutdown, Scandisk will run to check errors in the system.

Q2   The system freezes during program operation

A1   There is an error with the program currently being used. Press the <**Ctrl**>, <**Alt**>, and <**Del**> keys (**Windows Security Button**) simultaneously and click End Task in the [Windows Task Manager] window.

A2   There is an error with the Windows OS. Reboot the system by using the Power button.

Display Related

Q1   The LCD screen is too dark or too bright

A   Adjust the LCD brightness. Press the **Menu** button and click on **Brightness UP** or **Brightness Down**.

Alternatively, press the +, - **Volume Control** button while holding down the **Menu** button to adjust the LCD brightness.

Q2   The screen saver disturbs Media Player playing a movie or video clip after the screen saver is activated while Media Player is playing.

A   Unselect **Tools > Options > Player > Allow screen saver during playback** in the Media Player.

Q3   In the following cases, the screen blinks or displays noise for a short time.

Click the Graphics Related tab, Change Resolution, Change Display Device, Remove the AC Adapter, Restart the System, Change Power Mizer level.

A   This may happen while the video driver is examining the connected device. While busy detecting, any connected display devices may blink or some noise may occur.

In addition, when pressing the Auto Scaler button, the screen may blink or display noise for a short time while the resolution changes or the Down Scale (resolution zoom out) function operates.

Q4 **When I connect a projector, and change the settings to display the screen image on both the LCD and the projector by pressing the Menu button, the screen is not displayed properly.**

A Press the Menu button and press the LCD/CRT twice to select LCD+CRT. If the screen image or some part of it is not displayed on the screen, this is because the LCD resolution is low or the current resolution is too wide and cannot be supported by the projector. Press the Auto Scaler button and change the resolution to 800x600 pixels.

Q5 **The shortcut icons are not displayed on the screen.**

A The shortcut icons only appear when both the Magic Keyboard and Samsung Display Manager programs are installed.

Q6 **When I connect an external monitor and select the monitor, no screen image is displayed (Clone Mode).**

A This may happen when the current resolution is inappropriate or Dual View (Extended Mode) is selected. Try the following methods.

1. When the current resolution is inappropriate

This computer supports the 800x480 WVGA resolution. Since this resolution is lower than that of the operating system, the above symptom may appear when the external monitor cannot support this resolution. Change the resolution to 800x600 pixels, press the Menu button and press the LCD/CRT twice to select LCD+CRT.

2. When Dual View (Extended mode) is selected

When Dual View is selected, the Clone Mode is not supported. In this case, unselect the Dual View, press the Menu button to select the Clone Mode.

For the procedures to deactivate the Dual View, refer to (▢ p.35).

Q7 **In the Display Properties window, resolution starts from 800x600.**

A Even if the current resolution is 800x480 pixels, it may be represented as 800x600 in the Display Properties. This is because the lowest resolution of the operating system is 800x600 and is unable to show the 800x480 resolution in the Display Properties window.

Q8 **Pressing [Start] displays a [Some items cannot be shown] message.**

A This message appears when all start menu items cannot be displayed in the default resolution (800x480 pixels). In this case, change the screen resolution to 800x600 pixels or press the Auto Scaler button to change the resolution.

Q9 **The whole screen image is not displayed on the screen.**

A This may happen when a program or game is designed for at least 800x600 pixels. In this case, press the Auto Scaler button and change the resolution. Whenever the button is pressed, the screen resolution changes to 800X480 > 800x600 >1024x600 pixels, in this sequence.

Q10 **When I press the Auto Scaler button, letters on the screen are blurry.**

A In resolutions provided by Auto Scaler, the letters on the screen may be blurred because these are not the optimal resolutions of the LCD panel.

In this case, press the Auto Scaler button again and change the screen resolution to 800x480 pixels which is the default resolution of the LCD panel.

Sound Related

Q1 How to install and uninstall the sound driver

A   To install or uninstall the sound driver from this system, please follow the procedures below.

● **Sound Driver Components**

The sound driver consists of the following 3 components. The components are automatically installed during the installation.

- **High Definition Audio - KB888111**: Microsoft UAA Bus Driver for High Definition Audio
- **SoundMAX**: SoundMAX Integrated Digital HD Audio
- **WOW XT and TSXT Filter Driver**: SRS

● **Uninstalling the Sound Driver**

To remove the sound driver due to a problem or for an update, follow the procedures below.

If you do not follow the sequence below, the sound driver may not be removed or the reinstalled driver, or may not work properly.

❶ Select **Start > Control Panel > Add or Remove Programs**.

❷ Remove **WOW XT and TSXT Filter Driver** first.

❸ Remove **SoundMAX** and restart the computer.

● **Reinstalling the Sound Driver**

If there is an already installed sound driver, uninstall the driver according to the procedures above.

The sound driver is included on the System Software Media.

❶ Connect the external USB ODD and insert the **System Software Media** into the ODD.

❷ Select the Sound Driver on either Standard Installation or Custom Installation, then the 3 components of the sound driver are automatically installed.

Q2 How can I use an additional function when making a recording using the microphone?

A   To use an addition function so as to record sound by emphasizing the sound between the two microphones, configure the settings as follows.

❶ Click **Start > Control Panel > Sound, Speech and Audio Devices > SoundMAX**.

❷ In the **Microphone Peripherals**, select '**Directional Beam**' and click the **OK** button.

Wired LAN Related

Q1 **The <Wake On LAN> function**

A <Wake On LAN> is a function that activates the system from standby (S3) when a signal (such as ping or magic packet commands) arrives from the network (wired LAN).

Using the <Wake On LAN> function

❶ Click on **My Network Place> View network connections** on the Desktop.

❷ Right-click(press and hold the Stylus Pen for more than 3 seconds) the Local Area Connection and click **Properties**.

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

- If the system in standby mode is activated when there is no received signal, use the system after disabling the <Wake On LAN> function.

- When turning the power off when <Wake On LAN> is disabled, the LAN LED may continue to be lit up.

- The <Wake On LAN> function operates only when the LAN is ON.

- 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.

❶ Click on **My Network Place> View network connections** on the Desktop.

❷ Right-click(press and hold the Stylus Pen for more than 3 seconds) over **Wireless Network Connection** and select **Disable**.

Q2 **When I am connected to a 100Mbps wired LAN and the computer exits standby/hibernation mode, a message appears informing of a connection to a 10Mbps wired LAN.**

A When the computer exits standby/hibernate mode, restoring the network takes about 3 seconds. When the network is restored, it operates at 100Mbps.

Q3 **To use the network at the maximum data rate, configure the following options.**

A Click **Start > Control Panel > Performance and Maintenance > System > Hardware > Device Manager > Network adapters** and Right-click(press and hold the Stylus Pen for more than 3 seconds) **Marvell Yukon88E8036 PCI-E Fast Ethernet Controller** and click **Properties > Advanced**.

Configure as follows and click the **OK** button.

❶ BatteryModeLinkDetection : EnergyDetect™

❷ BatterySpeedSettings : FullSpeed

Wireless LAN Related

Q1 **The Wireless LAN device is operating properly, but I cannot connect to the Internet or to another computer.**

This is due to an incorrect configuration, or a configuration error. Check the following check lists:

A1 If you are using a computer-to-computer (Ad Hoc) network connection, check that the name of the configured network (SSID) is correct. The network name (SSID) is case sensitive.

A2 If you are using a network key (encryption key), you have to use the same network keys for an AP (Access Point) or a computer-to-computer network (Ad Hoc). The network key of the AP is configured in the AP management program. Ask your network administrator or AP manager for more detailed information.

A3 Check that the device driver is properly installed. If the driver is not properly installed, you will find a yellow exclamation mark on the network icon by clicking Start > Control Panel > Performance and Maintenance > System > Hardware tab > Device Manager > Network adapters > Wireless LAN adapter. If there is a yellow exclamation mark, please reinstall the device driver with the system software Media.

A4 Referring to A2 of Q3, Check that the network bridge configuration is correct.

Q2 **The signal strength is excellent, but I cannot connect to the network.**

Even if the signal strength is excellent, the network connection may not operate properly if the TCP/IP properties are not properly configured, or the network key (encryption key) is incorrect.

A1 Check that the TCP/IP properties are configured properly. When you connect to an AP, click the Wireless Network Connection icon on the taskbar and select the Support tab. If the IP is not allocated properly, the IP address will be displayed as follows (e.g. 169.254.xxx.xxx).

If the network does not provide DHCP, you have to specify the correct IP address by asking your network administrator.

Even if the network provides DHCP, the server may not allocate an IP address to the client properly, and the client station cannot connect to the network.

A2 Referring to A2 of Q1, check that the network key is correct.

A3 Referring to Q4, check that AP is operating properly.

Q3 **I cannot connect to the AP.**

Check the Computer Settings

A1 Verify whether the wireless LAN function of the computer is on by doing the following. If the wireless LAN function is off, turn it on.

- For Windows XP, verify that the wireless network connection has been set to "Enable" in Start > Control Panel > Network Connections.

- Check if the wireless LAN is turned on.

A2 Verify whether the same network key (encryption key) has been entered in both the AP and the computer.

The network key is an encryption key for encrypting data transmitted between the AP and the computer. It is recommended setting the network key manually.

Check the AP Settings

For the AP settings, refer to the User's Guide provided by the AP manufacturer.

A3 Verify whether the environment is suitable for using a wireless LAN.

The use of a wireless LAN may be restricted according to the environment and distance. Obstacles such as walls or doors affect the use of a wireless LAN. Install the AP in a high and open space 50cm from the wall and far removed from any other radio signal sources.

A4 Verify whether the AP is operating properly.

- When the AP is not operating normally, turn off the AP and after a short while turn it on again.

- Verify whether the AP's firmware is the most recent version. (Contact the AP manufacturer or the place where you purchased the AP for details of the AP firmware.)

A5 Verify whether the AP has been properly connected to the network.

Verify whether the network is operating normally by connecting the wired network cable, which has been connected to the AP, to your computer.

A6 Check the network key settings (encryption key).

When automatic code conversion (a passphrase function) has been selected and data communication is not functioning even with a normal wireless connection, it is recommended entering the network key (encryption key) manually.

A7 Check the AP settings as follows. (The following is recommended for a standard environment and thus may differ according to the specific wireless network environment.)

- When several APs are present simultaneously, check the channel setting for each AP. When different APs are using nearby channels, interference may occur between electronic waves. Set the APs' channels further apart from each other. (Ex: Ch1, Ch5, Ch9, Ch13)

- When an AP's SSID (Service Set ID) option is set to "Hide", you cannot search for that AP on the computer. We recommend canceling the "Hide" option for an AP. The SSID is a name for distinguishing one wireless LAN from another wireless LAN.

- It is recommended using Long Preamble. Preamble is a signal for data transmission synchronization. Short Preamble may be supported by some types of APs but may cause compatibility problems.

- It is recommended using a static IP.

- Since static channel selection is more reliable than auto channel selection, it is recommended setting a static channel.

Q4 **In the Windows XP 'Available wireless networks' window, the Wireless Network Connection is displayed as 'Not Available'.**

A1 Check if the wireless LAN is turned on.

A2 Check if there is additional program for a wireless LAN connection installed. Windows XP supports wireless LAN connections through the Wireless Zero Configuration (WZC) service. Therefore, an additional program for wireless LAN connection is not required, unless the network requires a specific program. However, installation of some wireless LAN related programs may sometimes disable the [View Available Wireless Networks] window supported by WZC service. Exit the wireless LAN related program then check whether the window is enabled.

A3 Initialize the device driver.

Click Start > Control Panel > Performance and Maintenance > System > Hardware tab > Device Manager > Network adapters, and select the wireless LAN adapter. Right-click the network adaptor and select 'Disable'. Then right-click over the network adaptor and select 'Enable' after a short wait to check that the device is operating properly.

A4 Right-click the My computer icon, and select Manage. When the Computer Management window appears, double-click Services and Applications on the left, and then click Services from the sub menu tree. Select the Standard tab in the right pane, double-click Wireless Zero Configuration and check that Startup Type is configured to Automatic, and the Service status is Started.

A5 In the case of Windows XP, click Advanced in the [Wireless Network Connection] dialog box (see "Connecting to an Access Point (AP)" (p50)) and make sure that 'Use Windows to configure my wireless network settings' is selected.

This may happen when a third-party wireless network setup program other than Windows XP default program is installed. For setting up a wireless network using the Windows XP program, this option should be selected.

Q5 **When connecting to a computer-to-computer (Ad Hoc) network, I cannot connect to another computer connected to the same computer-to-computer network.**

A1 Make sure that the security settings and network name of the computer-to-computer (Ad Hoc) network is correct.

A2 Check the TCP/IP properties of the computers to be connected through the computer-to-computer (Ad Hoc) network. All of the computers to be connected through a computer-to-computer (Ad Hoc) network should be configured so that their IP addresses are within the same subnet range.

- If the TCP/IP Settings are configured to DHCP, the address is automatically configured to an address within the subnet IP range. This will take about 2~3 minutes.

- If the IP address is configured to static IP in TCP/IP properties, select Use the following IP address in the TCP/IP properties of the wireless adapter, configure IP address:10.0.0.1~10.0.0.254, and Subnet mask: 255.255.0.0, and then try again.

- A fixed IP is recommended for a small-size network.

Q6 **When using a computer-to-computer (Ad Hoc) network, sometimes I cannot search the access point.**

A It may happen occasionally when you are using a computer-to-computer (Ad Hoc) network connection. Even if you cannot find some access points, the computer-to-computer (Ad Hoc) network is operating properly. Click Refresh to view the latest search result.

Q7 **The network does not operate properly when both the wireless and the wired network connections are simultaneously configured with the same IP address.**

A You cannot use the wireless and the wired network connections using the same IP address simultaneously. To use either the wireless or the wired network in turn with the same IP address, you have to Disable whichever network device will not be used in the network connection of the Control Panel.

Q8 **The wireless LAN does not work properly when there is a device operating on an adjacent frequency in the vicinity of the product.**

A1 Channel interference may occur when a wireless video transceiver or a microwave oven is being used.If you experience channel interference from other equipment, we recommended changing the channel to connect to the AP. For more information about AP settings, refer to the User Manual supplied by the AP manufacturer.

A2   Since IEEE802.11g equipment operates in hybrid mode when there is active IEEE802.11b equipment, the data rate may be degraded.

Q9   An established wireless LAN connection is disconnected after 2~3 minutes, and the connection is not recovered.

A1   This may be caused by channel interference. Change the channel of the AP, and reconnect.

A2   This may be caused by selecting the 'Use IEEE 802.1x network authentication' option when IEEE 802.1x authentication is not available.

Check the properties of the AP in the wireless network settings. If the 'Use IEEE 802.1x authentication in this network' option is selected, deselect the option on the Authentication tab.

For more detailed information about authentication server, ask your network administrator.

A3   If the AP is configured to 'Use network authentication (Shared Key)'

If the AP is configured to authentication shared mode, all computers to be connected should be configured as follows:

If you are using Windows XP, select network authentication(shared mode) in the wireless network settings.

Select Start > Control Panel > Network and Internet Connections > Network Connections, right-click the Wireless Network Connection icon and then select View Available Wireless Networks.

Select Change Advanced Settings from the left menu, select an AP from Preferred networks window in the Wireless Networks tab, and click the Properties button. Select Shared Mode in the Network Authentication field of the Association tab, and then click the OK button.

If the Preferred networks window in the Wireless Network tab is empty, click View Wireless Networks, select an AP to connect to, and select Shared Mode in the Network Authentication field of the Connection Information tab as described above.

For more detailed network authentication procedures, ask your AP (Access Point) administrator.

Q10 After Wireless LAN Setup Program is installed, The "AEGIS Protocol (IEEE 802.1x) v2.2.1.0" appears in the [Local Area Connection Properties] window.

A   The AEGIS Protocol is a security authentication protocol that is automatically installed when Wireless LAN Setup Program is installed and does not affect the operation of other programs.

Q11 I want to use the Wireless LAN power saving function to extend the system battery use time.

A   You can configure this in the Samsung Battery Manager program. Run the Samsung Battery Manager and select **Options > Wireless LAN Power Saving > On** from the menu.

However, this setting may affect the performance of the Wireless LAN.

In addition, the wireless LAN connection might be disconnected while configuring this.

Games and Programs Related

Q1 3D game is not executed, or some functions are not working.

A Change the graphic setting of the game to '2D' or 'Software Renderer', then execute the program again.

Q2 While playing a game, pressing the Menu button or pressing the LCD/CRT item does not work or the screen is not properly displayed.

A Some games and 3D application programs may change the display device control. Therefore, pressing the Menu button and clicking the LCD/CRT item may terminate the running program or may display an abnormal screen.

Press the Menu button and press the LCD/CRT item before launching a program and do not press these buttons while running the program.

Q3 Running speed of a game is too slow or fast.

A Change the setting of Power Schemes to 'Always On'.

(Click Start > Control Panel > Performance and Maintenance > Power Options > Power Schemes tab, then configure the Power schemes field to 'Always On'.)

Q4 Some part of a game image is not displayed or is displayed in black.

A This may happen when running a game designed for DirectX 8.1, such as NHL 2003, MVP Baseball 2003, etc.

Q5 The game screen is displayed small.

A ❶ Right-click on the Desktop and select **Properties** from the pop-up menu.
   ❷ In the [Display Properties] window, select the **Settings** tab **> Advanced > Intel Graphics Media Accelerator Driver for Mobile** tab.
   ❸ Select the **Display Device** menu and click on '**Notebook**' in the '**Single Display**' field.
   ❹ Select the **Display Setting** menu, click '**Full Screen**' in the **Extended Display** field and click the **Apply** button.

Q6 The picture is not displayed properly for some games.

A Some games such as 'Harry Potter and the Sorcerer's Stone', 'Harry Potter and the Chamber of Secrets', etc. may not display the picture properly when the screen resolution is set to 1024x768 and the color quality is set to 32 bit.

For these games, set the screen resolution to 1024x768, and the color quality to 16 bit.

Q7 Game play is not displayed smoothly on the screen.

A For 3D games, the texture data for the 3D screen display is saved to the system memory. If there is insufficient system memory, the data is saved to the hard disk drive and loaded to memory when required. This operation may temporarily stop displaying the picture on the screen.

In this case, lower the game resolution or the screen settings. (For Delta Force: Black Hawk Down, Medal of Honor, Battle Field, 1942, etc.)

Q8 **If I run a program, an error message appears or the program does not launch.**

A This may happen when the program does not support the 800x480 pixels resolution.

This is caused by a program that is designed for a minimum resolution of 800x600 pixels and fails to support a resolution lower than its minimum resolution.

In this case, change the screen resolution to 800x600 pixels or press the Auto Scaler button to change the resolution.

Security Center

Q1 **To change the popup window display settings when connected to the Internet.**

In the Windows XP SP2 environment, you can decide whether to display a popup window when connected to the Internet, for user convenience and security.

A1 To display most of the popup windows when connected to the Internet:

❶ Click on Internet Options in Start > Control Panel > Security Center > Manage security settings for.

❷ In the Privacy tab of Internet Properties, clear Block pop-ups.

A2 To display popup windows only from the current site when connected to the Internet:

Place the cursor on the notification area at the bottom of the Internet address bar and right-click to display a menu, from which you can select Temporarily Allow Pop-ups or Always Allow Pop-ups from This Site.

A3 To display popup windows from a particular site:

❶ Click on Internet Options in Start > Control Panel > Security Center > Manage security settings for.

❷ In the Privacy tab of Internet Properties, click on Settings from Block pop-ups.

❸ Enter a URL to want to allow pop-ups into Address of Web site to allow and click on Add.

❹ You will find that the entered address is added to the allowed sites list. The next time you connect to the Web site, you will see pop-ups appearing.

When you need to re-block a permitted site, select the Web site address that you want to block from the Allowed Sites and click on Remove.

Q2 **When you connect to a Web site, you see the message, "To help protect your security, Internet Explorer stopped this site from installing an ActiveX control on your computer" or "This site might require the following ActiveX control" below the address bar.**

A Windows XP SP2 blocks unsigned ActiveX controls from being installed when connected to certain Web sites for security reasons. On some Web sites that have no ActiveX controls installed, applications are not started or do not display properly.

In this case, to install ActiveX controls, right-click the notification area to display a menu from which you can select Install ActiveX control.

Q3 **When you see a Windows Security Alert icon (🛡) appear on the right part of the task bar.**

With the Security Center feature added, Windows XP SP2 checks the Firewall, the automatic updates configuration and installation of virus-checking pro-

grams to display a Windows Security Alert icon on the right part of the task bar when it judges that the computer is vulnerable to attacks from the Internet. In this case, check the following to install the necessary components.

A1 Set up the Windows Firewall.

When you set up the Windows Firewall, you will be protected from unauthorized access through the Internet or the network.

❶ Click on Windows Firewall in Start > Control Panel > Security Center > Manage security settings for.

❷ From the General tab of Windows Firewall, select ON (recommended).

❸ If you want to allow a certain program or service to gain access to your computer using the Firewall, select and check the program or service that you want to allow access from, in the Exceptions tab of the Windows Firewall. If you want to add a program to Programs and Services, click on Add Program and select it.

A2 Set up Windows Automatic Updates.

This automatically downloads and installs critical updates via the Internet to keep your computer up to date.

❶ Click on Automatic Updates in Start > Control Panel > Security Center > Manage security settings for.

❷ From general tab of Automatic Updates window, select Automatic (recommended).

A3 Keep your computer current with the latest virus updates. (ex: Norton Antivirus)
Even when you have installed Norton AntiVirus on your computer, Windows cannot recognize the program until you configure the settings, displaying a Security Alert icon.

When you first use or install Norton AntiVirus for the first time, follow the Registration Wizard steps to configure the registration settings.

To protect your computer from virus attacks with the latest updates, click on Options to display the Norton AntiVirus Options window. From the left menu of the window, check Run Automatic Protection to select Automatic Protection and check Run LiveUpdate to select LiveUpdate.

A4 Two virus scanning programs on one computer may cause system conflicts. Remove one of the programs from the system.

A5 If Windows does not recognize the existence of an anti-virus program even when it has been installed, your computer could be vulnerable to attacks from the Internet. You should install an anti-virus program that your computer is able to identify.

Check the following programs which Windows can detect and select one from the list.

A list of anti-virus programs that Windows can detect:

-Symantec Norton Anti-Virus
-NetworkAssociates (McAfee)
-TrendMicro
-ComputerAssociates
-Panda
-Kaspersky
-Ahnlabs (AhnLab)

Visit the Microsoft Web site (www.microsoft.com) regularly to check the latest list.

Other

Q1 **I cannot run any functions.**

A1 This may happen when the computer is in the HOLD status. When pressing a button or switch in the HOLD status, the **Charge LED** (⊕) blinks for a moment. Slide the HOLD switch downwards and try again.

A2 If the computer is running on battery power, check the battery charge status.

Q2 **The [Power Switch] and the [AVStation NOW] switch do not work.**

A1 This may happen when the computer is in the HOLD status. When pressing a button or switch in the HOLD status, the **Charge LED** (⊕) blinks for a moment. Slide the HOLD switch downwards and try again.

A2 To use the switch, you have to slide and hold the switch for more than 0.1 seconds. Slide and hold the switch for more than 0.1 seconds before releasing it.

A3 If the computer is running on battery power, check the battery charge status.

Q3 **I've hidden the Taskbar, but I cannot display it again.**

A If the Taskbar is behind the screen, you cannot display it with the Stylus Pen. In this case, press the **Menu** button to display the Taskbar again.

Specifications

System Specification

The system specifications will be described below. The system specifications may differ depending on the derived models.

Item	Specification	Remarks
CPU	Intel Celeron M ULV	Optional
Cache memory	Celeron (512KB)	Optional
Main memory	256MB ~ Max 1GB, Memory type : DDR2 SODIMM	Optional
Main Chipset	Intel 915GMS / 400 MHz FSB Support, Intel ICH6-M	Optional
Hard disk drive (HDD)	1.8" HDD 20 ~ 60GB	Optional
Graphics	Intel 915GMA 900 Graphics	Optional
Sound	AD1986 (2CH)	
Network Interface	Wired LAN: Marvell Yukon 88E8036 PCI-E Fast Ethernet Controller Wireless LAN: 802.11BG Bluetooth 2.0+EDR	Optional Optional Optional
CF Card Slot	Type I and II Compatible	
Ports	USB 2.0 x 2, Video (Monitor) Out Port, Headphone Jack, Wired LAN Port, DC-in Jack, External ODD Power Port	Optional
Dimensions (mm)	227.5 x 138 x 24~25.7	W x D x H
LCD	7" WVGA (800x480)	
Weight	779g (without Bluetooth)	Optional
Battery	Lithium-Ion smart battery: 3 Cells or 6 Cells	Optional
Operation Environment	Temperature (storage) : -5 ~ 40°C (operation) : 10 ~ 32° C Humidity (storage) : 5% ~ 90% (operation) : 20% ~ 80%	
Operation Voltage	100 - 240 VAC	
Frequency	50 - 60 Hz	
Output Power	60W	
Output Voltage	19.0VDC	

The system specifications are subject to change without notice. For detailed system specifications, refer to the product catalog.

Wireless LAN Specification (Optional)

Atheros AR5006EX Wireless Network Adapter Device

Product Specification

Item		Detailed Specifications
Physical Specifications	Dimensions	(Width X Height) 30 X 50.95 mm
	operation temperature and humidity	Same as system operation Temperature: 0°C ~ 70°C Humidity: 85%
Power Specification	Power Saving Mode	726mW
	Receiving Mode	1.353W
	Transmission Mode	2.046W
	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11g, IEEE 802.11b
	Operating System	Microsoft Windows XP - NDIS5 Miniport Driver
	Media Access Protocol	CSMA/CA (Collision Avoidance) with Acknowledgement(ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit / 128bit *WPA, *CCX

* This piece of equipment supports the Wi-Fi wireless LAN security standard, WPA (Wi-Fi Protected Access) and CCX (Cisco Compatible eXtensions). To connect to a wireless network consisting of the WPA and CCX, certificates or Atheros Client Utility may be required depending on the network settings. For more information, ask your network administrator.

Radio Specifications

RF Band	2.4 GHz
Support Channels	Channels allowed per country.
Device	Transceiver
Modulation Scheme	11b Mode: DSSS, CCK 11g Mode: OFDM
Standard Output Power	MAX 10 mW
***Transmission Rate**	**11g mode: 54, 48, 36, 24, 18, 12, 9, 6 11b mode: 11, 5.5, 2, 1
Antenna Type	1ea internal antennas (main)

* The data rate may differ from the real data transmission rate.

**11g mode is supported only when device is connected with an IEEE 802.11g device. (e.g. Access Point supported IEEE 802.11g)

Glossary

You can find the terminologies in this User Guide listed in alphabetic order. For terminologies other than these, find them in the Windows Help.

Backup

A way to save the current data to later restore it if necessary. Backup is a way to restore computer data when the data or computer is damaged.

Client

This refers to a computer that uses a shared network resource provided by a server.

DDR SDRAM (Double Date Rate Synchronous Dymamic Random Access Memory)

DRAM is a memory type whose cells consists of a capacitor and transistor manufactured at a low price.

SDRAM is a memory type whose performance has been improved by synchronizing the clock with the external clock of the CPU.

DDR SDRAM is a memory type whose performance has been improved by doubling the operating speed of the SDRAM and is widely used nowadays. This computer uses DDR SDRAM.

Device Manager

A administrative tool used to manage computer devices. You can add or remove hardware or update a device driver using the Device Manager.

Direct X

An application interface that has been developed to enable Windows application programs to access hardware devices at a very high speed. Since the operating speed of graphics, memory and sound cards must be very fast to provide high quality video and sound for games, Direct X enables a faster control and interaction between applications and hardware devices. By using Direct X, the multimedia performance of Windows has been hugely improved.

Driver

Software that interacts between the hardware and the operating system. An operating system knows the hardware information and controls the hardware. In general, a driver is supplied with the corresponding hardware device.

DVD (Digital Versatile Disk)

DVD has been developed to replace CD (compact disk). Although the shape and size of the disc are the same as a CD, the capacity of a DVD is at least 4.7GB while the capacity of a CD is 600MB. DVD video is digital unlike VHS video and supports MPEG2 compression and digital audio. To play a DVD, a DVD drive is required.

Firewall

A security system that is used to protect an internal network or intranet from external networks through an authentication procedure.

Hibernation Mode

A power mode that saves all data in memory to the hard disk and turns the CPU and hard disk off. When canceling Hibernation Mode, all application programs that were running are restored to their last state.

Icon

This refers to a small image that represents an object that a user can use.

LAN (Local Area Network)

A communication network connecting computers, printers and other devices within a local area such as within a building. A LAN enables all connected devices to interact with other devices on the network. The current LAN uses the Ethernet media access control method developed in the early 1980s. To connect to an Ethernet, a network card called a LAN card, Ethernet card or network interface card is required. To exchange data between computers, a protocol is required besides the hardware equipment. Windows XP uses TCP/IP as the default protocol.

LCD (Liquid Crystal Display)

There are Passive Matrix and Active Matrix LCD types. This computer uses the Active Matrix type LCD called TFT LCD. Since an LCD is implemented by transistors instead of a cathode-ray tube unlike a CRT, it can be slim. Because it does not blink, it reduces eye strain.

Network

A group of computers and devices, such as a printer and scanner, connected by a communications link. A network can be either small or large and can be connected permanently through cables or temporarily through a telephone lines or a wireless link. The biggest network is the Internet, a worldwide network group.

Network Administrator

A user who plans, configures and manages network operations. Sometimes, a network administrator is called system administrator.

Notification Area

This refers to the right area of the Taskbar including program icons such as the volume control, the power options and the time.

Power Schemes

This refers to a pre-determined power management option group. For example, you can set the time the computer waits before entering Standby Mode, or before the monitor or hard drive turns off. The settings are saved as a power scheme.

Quick Launch

This refers to a toolbar that can be configured so that you can launch a program such as Internet Explorer or display Windows Desktop with one click. You can add any icon to the quickly launch area of the Taskbar and launch frequently used program by clicking that icon.

Server

In general, a server refers to a computer that provides shared resources for network users.

Share

This refers to setting a resource of a computer such as a folder or printer so that other users can also use them.

Shared Folder

A folder that can be used by other users on the network.

Standby Mode

A power mode that enables a computer to save power consumption while not in use. When a computer is in Standby Mode, the data on the computer memory is not saved onto the hard disk. If the power is tuned off, the data in memory will be lost.

System Restore

A tool that tracks computer changes and creates a restoration point when a change is made. If you restore your computer to a restoration point, you can restore your computer to the previous status that has been saved before the change, which caused a problem.

System File

System Files refer to files that are read and used by the Windows operating system. In general, system files must not be deleted or moved.

USB (Universal Serial Bus)

This refers to a serial interface standard developed to replace the conventional interface standards such as Serial and PS/2.

While USB 1.1 supports 12Mbps (12 million bits per second), USB 2.0 supports a data rate that is 40 times (480Mpbs) faster then that of USB 1.1. The data rate of USB 2.0 is equivalent to that of IEEE1394. Therefore USB 2.0 is used for A/V devices supported by IEEE 1394 and 2nd HDD and CD-RW that require a high data rate.

Windows

The name of an operating system developed by Microsoft Corp. Windows XP Tablet PC Edition is installed on this computer,.

Windows Media Player

A multimedia program included with Windows. Using this program, you can play a media file, create an audio CD, listen to a radio broadcast, search and manage media files, copy files to a portable device, etc.

Index

Important Safety Information

Battery Disposal

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

Contact the Samsung Helpline 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.

Laser Safety

All systems equipped with CD or DVD drives comply with the appropriate safety standards, including IEC 825. 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.

Power Cord Requirements

The power cord set (wall 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:

- The length of the power cord set must be at least 6.00 feet (1.8m) and a maximum of 9.75 feet (3.0m).

- 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 7 A and a nominal voltage rating of 125 or 250 volts AC, as required by each country's power system.

- The appliance coupler must meet the mechanical configuration of an EN 60 320/IEC 320 Standard Sheet C7 connector, for mating with appliance inlet on the computer.

Regulatory Compliance Statements

Wireless Guidance

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz Band, may be present (embedded) in your 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 your 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 power output of the wireless device or devices that may be embedded in your notebook is well below the RF exposure limits as known at this time. Because the wireless devices (which may be embedded into your 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.

This transmitter must not be collocated or operate in conjunction with any other antenna or transmitter except the installed Bluetooth transmitter.

Some circumstances require restrictions on wireless devices. Examples of common restrictions are listed below:

⚠ 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. 802.11B/G (also known as wireless Ethernet or Wifi) 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 your 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 manufacturer for service.

Only use drivers approved for the country in which the device will be used. See the manufacturer System Restoration Kit, or contact manufacturer 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 or 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 Samsung 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 generate uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions may cause harmful interference will not occur in a particular installation. 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

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 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 the United States of America if an FCC ID number is on the system label.

This transmitter must not be collocated or operate in conjunction with any other antenna or transmitter except the installed Bluetooth transmitter.

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.

European Union

European Union CE Marking and Compliance Notices

Products intended for sale within the European Union are marked with the Conformité Européene (CE) Marking, which indicates compliance with the applicable Directives and European standards and amendments identified below. This equipment also carries the Class 2 identifier.

The following information is only applicable to systems labeled with the CE mark $C\epsilon$.

European Directives

This Information Technology Equipment has been tested and found to comply with the following European directives:

- **EMC Directive 89/336/EEC with amending directives 92/31/EEC & 93/68/EEC as per**
  - EN 55022 Class B
  - EN 61000-3-2
  - EN 61000-3-3
  - EN 55024
- **Low Voltage Directive (Safety) 73/23/EEC as per EN 60950(A1/A2/A3/A4/A11)**
- **Radio and Telecom Terminal Equipment Directive 199/5/EC as per**
  - CTR21 (if fitted with a modem device)
  - ETS 300 328 (if fitted with a 2.4 GHz band embedded wireless device)
  - ETS 301 489-1 (if fitted with a 2.4 GHz band embedded wireless device)
  - ETS 301 489-17 (if fitted with a 2.4 GHz band embedded wireless device)

European Radio Approval Information (for products fitted with EU-approved radio devices)

This Product is a Notebook computer; low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz band, may be present (embedded) in your notebook system which is intended for home or office use. 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 the European Union or associated areas if a CE mark $C\epsilon$ with the Alert Symbol is on the system label.

The power output of the wireless device or devices that may be embedded in you notebook is well below the RF exposure limits as set by the European Commission through the R&TTE directive.

See 802.11b and 802.11g restrictions for specific countries or regions within countries under the heading "European Economic Area Restrictions" below.

Translated Statements of Compliance

[English]

This product follows the provisions of the European Directive 1999/5/EC.

[Danish]

Dette produkt er i overensstemmelse med det europæiske direktiv 1999/5/EC

[Dutch]

Dit product is in navolging van de bepalingen van Europees Directief 1999/5/EC.

[Finnish]

Tämä tuote noudattaa EU-direktiivin 1999/5/EC määräyksiä.

[French]

Ce produit est conforme aux exigences de la Directive Européenne 1999/5/EC.

[German]

Dieses Produkt entspricht den Bestimmungen der Europäischen Richtlinie 1999/5/EC

[Greek]

Το προϊόν αυτό πληροί τις προβλέψεις της Ευρωπαϊκής Οδηγίας 1999/5/EC.

[Icelandic]

Þessi vara stenst reglugerð Evrópska Efnahags Bandalagsins númer 1999/5/EC

[Italian]

Questo prodotto è conforme alla Direttiva Europea 1999/5/EC.

[Norwegian]

Dette produktet er i henhold til bestemmelsene i det europeiske direktivet 1999/5/EC.

[Portuguese]

Este produto cumpre com as normas da Diretiva Européia 1999/5/EC.

[Spanish]

Este producto cumple con las normas del Directivo Europeo 1999/5/EC.

[Swedish]

Denna produkt har tillverkats i enlighet med EG-direktiv 1999/5/EC.

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.

Belgium

The product may be used outdoors, but for outdoor transmissions over a distance of 300m or more, a license from the BIPT is required.

This restriction should be indicated in the manual as follows:

Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France

For Metropolitan departments:

2.400 - 2.4835 GHz for indoor use.

2.400 -2.454 GHz (channels 1 to 7) for outdoor use.

For Guadeloupe, Martinique, St Pierre et Miquelon, Mayotte:

2.400 - 2.4835 GHz for indoor and outdoor use.

For Reunion, Guyane:

2.400 - 2.4835 GHz for indoor use.

2.420 - 2.4835 GHz for outdoor use (channels 5 to 13)

WEEE Symbol Information

**Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)**

**(Applicable in the European Union and other European countries with separate
collection systems)**

This marking shown on the product or its literature, indicates that it should not be disposed with
other household wastes at the end of its working life. To prevent possible harm to the environment
or human health from uncontrolled waste disposal, please separate this from other types of wastes
and recycle it 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 this item for environmentally safe
recycling.

Business users should contact their supplier and check the terms and conditions of the purchase con-
tract. This product should not be mixed with other commercial wastes for disposal.

Contact SAMSUNG WORLD WIDE

[U.S.A. / U.K. / AUSTRALIA / HONG KONG / INDIA / MALAYSIA / SINGAPORE] Contact SAMSUNG WORLD WIDE

If you have any comments or questions regarding a Samsung products, contact the SAMSUNG customer care center.

Customer Care Center	TEL	Web Site
U.S.A.	1 800 SAMSUNG (7267864)	www.samsung.com
U.K.	0870 242 0303	www.samsung.com/uk
AUSTRALIA	1300 362 603	www.samsung.com/au
HONG KONG	2862 6001	www.samsung.com/hk
INDIA	3030 8282 / 1600 1100 11	www.samsung.com/in
MALAYSIA	1800-88-9999	www.samsung.com/my
SINGAPORE	1800-SAMSUNG(7267864)	www.samsung.com/sg

[FRANCE] Comment contacter Samsung dans le monde

Si vous avez des suggestions ou des questions concernant les produits Samsung, veuillez contacter le Service Consommateurs Samsung.

Customer Care Center	TEL	Web Site
FRANCE	08 25 08 65 65	www.samsung.fr

[GERMANY] Kontakt zu Samsung

Falls Sie Fragen oder Anregungen zu Samsung-Produkten haben, wenden Sie sich bitte an den Samsung-Kundendienst.

Customer Care Center	TEL	Web Site
GERMANY	01805 121213	www.samsung.de

[SPAIN] Contacte con SAMSUNG WORLD WIDE

Si tiene alguna pregunta o comentario referente a nuestros productos, por favor contacte con nuestro Servicio de Atencion al Cliente.

Customer Care Center	TEL	Web Site
SPAIN	902 10 11 30	www.samsung.com/es

[PORTUGAL] Contacte SAMSUNG GLOBAL

Se tem algumas dúvidas ou comentários sobre os produtos Samsung, contacte por favor a nossa linha de apoio a clientes Samsung.

Customer Care Center	TEL	Web Site
PORTUGAL	808 200 128	www.samsung.pt

[RUSSIA / UKRAINE] Связывайтесь с SAMSUNG по всему миру

Если у вас есть предложения или вопросы по продуктам Samsung, связывайтесь с информационным центром Samsung.

Customer Care Center	TEL	Web Site
RUSSIA	8-800-200-0400	www.samsung.ru
UKRAINE	8-800-502-0000	www.samsung.com/ur

[CHINA] 三星全球服务网

如果您对三星产品有任何咨询或建议，请联系三星客服中心

Customer Care Center	TEL	Web Site
CHINA	800-810-5858 / (010) 64751880	www.samsung.com.cn

[THILAND] ติดต่อซัมซุงเว็บไซต์

ติดต่อซัมซุงเว็บไซต์ หากมีคำแนะนำหรือข้อสงสัยเกี่ยวกับผลิตภัณฑ์ซัมซุง ติดต่อสอบถามได้ที่ SAMSUNG customer care center

Customer Care Center	TEL	Web Site
THAILAND	1800-29-3232 / 02-689-3232	www.samsung.com/th

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