

## **Chapter 4.**

# **Using the Network**

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# Wired Network

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

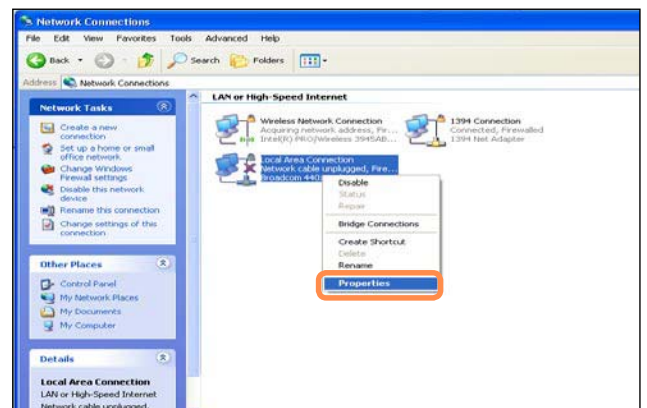
- You can only use the **Wired network** function when you have an Organizer. The **Organizer** is optional. It may be provided for some models only or should be purchased additionally.
- You can also configure the network settings using the Easy Network Manager.  
📖 107


**1** Connect a LAN cable to the Organizer's **LAN port**.



**2** Click **Start > Control Panel > Network and Internet Connections > Network Connection**.

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

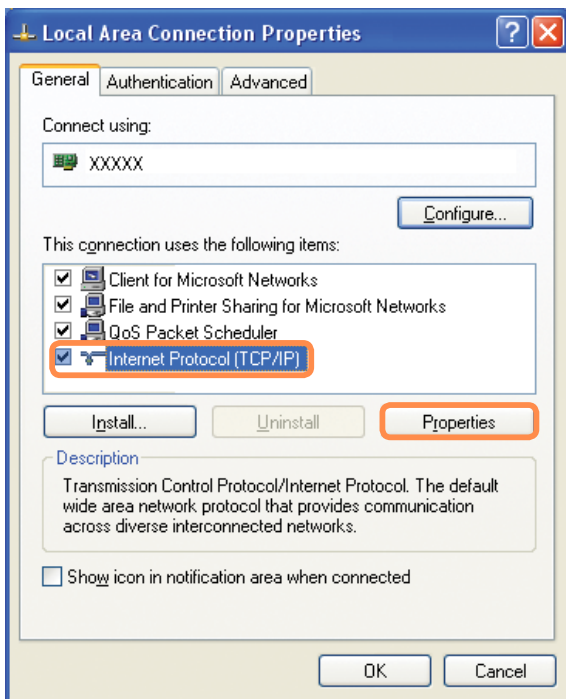


 The LAN Device name may differ depending on your computer's Network Device.

- 4 Click **General** tab and select a LAN driver from **Connect using:**. Select **Internet Protocol(TCP/IP)** and click **Properties**.

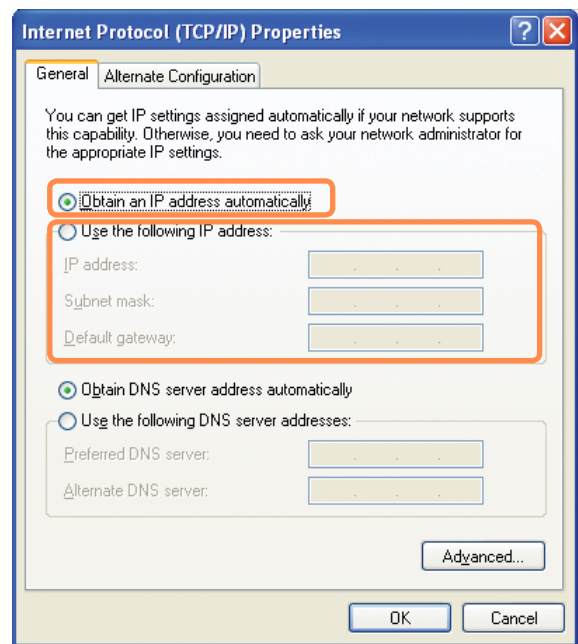


The displayed LAN driver may vary depending on the LAN device type. Click **Install** to add a network component as shown in the figure below: You can add a client, a service, or a protocol.



- 5 Configure IP settings.

Select **Obtain an IP address automatically** when using DHCP. If you use a static IP, select **Use the following IP address** and enter the values.



If the IP of your computer is not automatically assigned, contact the network administrator.

- 6 If all settings are made, click **OK**. Now the network configuration is finished.

## Using both DHCP and a fixed IP simultaneously

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Using the **Alternate Configuration** providing by Windows XP, you can set both automatic and fixed IP addresses and then you can select to use either of them to connect to the Internet.

- 1** Click **Start > Control Panel > Network and Internet Connections > Network Connection > Local Area Connection** by using the right button of the touch pad and click **Properties**.
- 2** Select **Internet Protocol (TCP/IP)** and click **Properties**.
- 3** Select the **Alternate Configuration** tab, select **User configured** and fill in the fields.
- 4** When the setting completes, click **OK**.

## Wireless Network

A wireless network allows computers to share resources or an internet connection without using LAN cables between them.



- This description is applied only to the models equipped with wireless LAN cards or devices. You can set a wireless network by using **Easy Network Manager** as well.

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A wireless LAN device is optional when purchasing. Click a symbol, **+**, from **Start > Control Panel > Performance and Maintenance > System > Hardware Tab > Device Manager > Network Adapter** to check the device type.

Some of the pictures shown in this description may vary depending on the wireless LAN device.

- To use the wireless LAN, press the **wheel button** and set the **Wireless LAN** item of the **MENU** program to **ON** to turn the wireless LAN on. When the wireless LAN is turned on, the **Wireless LAN Operation LED** is turned on.

### Types of Wireless LAN Connections

The types of wireless LAN connections are as follows. The following describes how to use the wireless LAN based on AP connections.

#### ● AP Connections

You can connect to the Internet or a computer on the network by connecting to AP on an AP-enabled network.



#### What is Access Point (AP)?

AP is a network device that connects wired LAN to wireless LAN and corresponds to the wireless hub of a wired network. Also, AP allows you to connect more than one computer where wireless LAN is enabled.

#### ● Small Office Network

The small office network interconnects computers where wireless LAN is enabled wirelessly and is called Peer-to-Peer (or Ad HOC). This method enables the configuration of a small office network in one computer. Then, another computer is connected to the computer wirelessly for communications.

For more information on how to establish connections, see the information from **Start > Help and Support > Networking and Web**.

When you use Ad-Hoc, you have to change the McAfee Firewall settings.

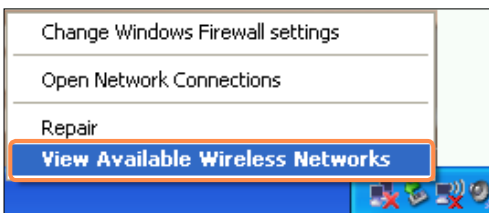
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## Connecting to Wireless LAN

If an AP exists near your location, you can easily connect to wireless LAN in the method provided by Windows XP.

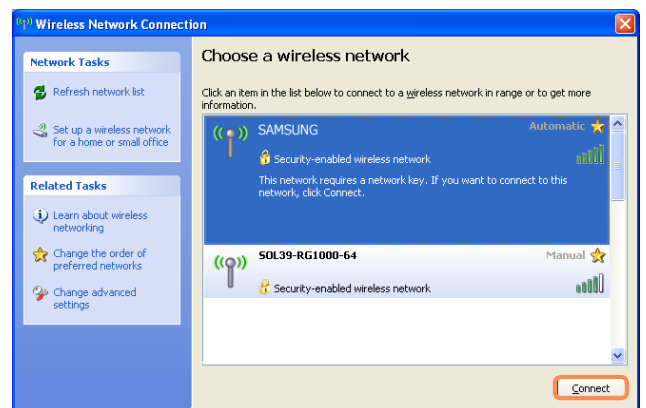
The following description is based on Windows XP Service Pack 2; thus, the pictures may vary.


- 1 Click the **Wireless Network Connection** icon  from the Taskbar using the right button of the touch pad. Then, click **View Available Wireless Networks**.



- 2 Select an AP to be connected and click **Connect**.


If a network key is set in the AP, the network key input window will appear. Enter the network key in the input window and click **OK**.



 For a network key, contact the network administrator.

- 3 Once **Connected to AP** is displayed, you can use a wireless network.

## To check the network connections

Place the mouse on the **Wireless Network Connection** icon  from the Taskbar. Then, the status will appear.



## Using the Easy Network Manager (Optional)

Easy Network Manager is a program that helps configure the network settings.

Easy Network Manager provides the following features.

- **You can easily configure the network and printer settings.** ㉮ 107~108
- **You can immediately use the network without having to define new network settings again after moving to another location.** ㉮ 109  
By configuring the network settings (IP address, printer settings, etc.) for each location, you can immediately access the network without following the network setting procedures each time regardless of your location.
- **You can diagnose the network status.** ㉮ 110

### Network Settings

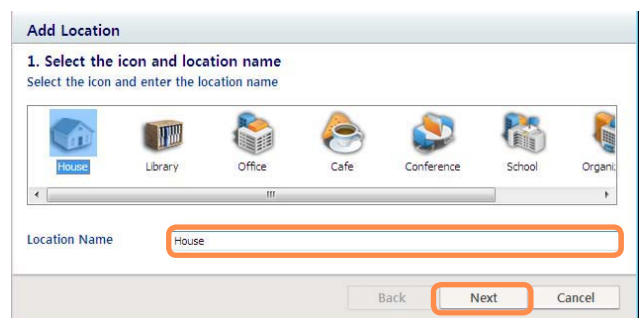
This section describes the procedures to connect to the Internet by setting up a network. The setting up procedures include procedures to add a printer to the network.

**1** To use the wireless LAN, press the **wheel button** and set the **Wireless LAN** item of the **MENU** program to **ON** to turn the wireless LAN on. When the wireless LAN is turned on, the **Wireless LAN Operation LED** is turned on.

**2** Click **Start > All Programs > Samsung > Easy Network Manager > Easy Network Manager**.

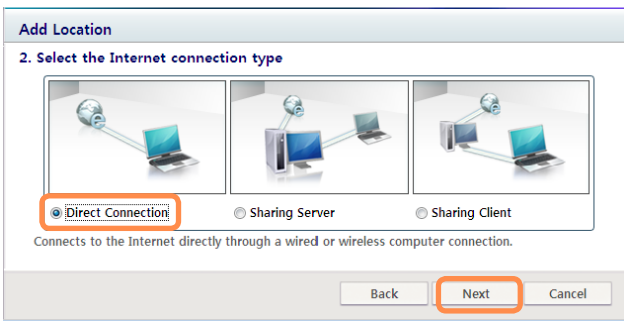
**3** Click the **Add** button.

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

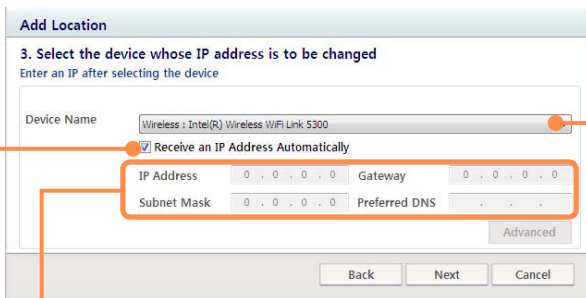




- 5 Select **Direct Connection** and click the **Next** button.



- 6 Select the LAN device, setup the IP address and click the **Next** button.



### Select Device

Select a device to be connected to the Internet. Select either Wired LAN or Wireless LAN.

### IP Settings

To use a static IP address, fill in the fields. For the IP address information, ask your network administrator.

### Obtain an IP address automatically

Select DHCP to use this option (automatic IP setting).

- 7 Click **Add Printer** and set up a printer according to the wizard.

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

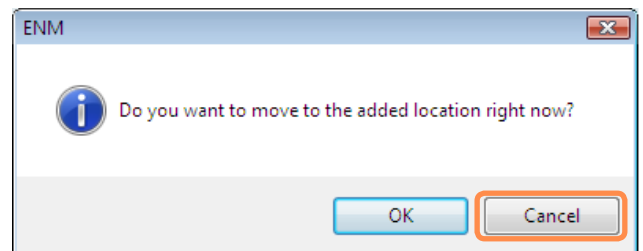


To not add a printer, click the **Finish** button.

- 8 When the network settings are complete, the **Do you want to move to the newly added location now?** message appears. Click the **Cancel** button.

An icon for the added location is created. The network settings have been completed.

If you select **OK**, the network settings for the added location are applied.



To add a new location, repeat the procedures from Step 3 above.

## Using in Another Location

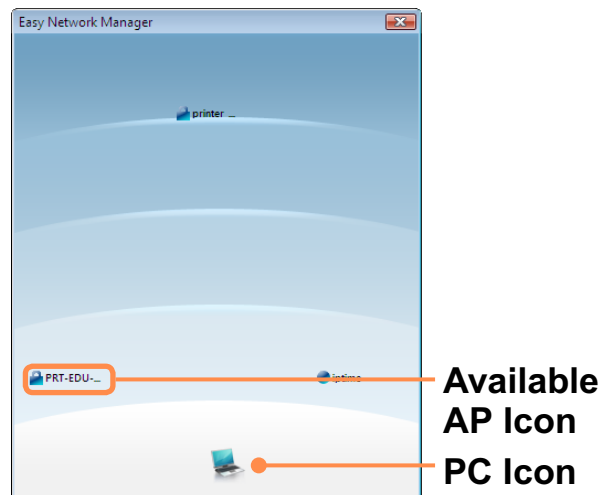
By configuring the network settings (IP address, printer setting, etc.) for each location, you can immediately access the network in one click, without performing the network setting procedures regardless of your location.


**1** Click **Start > All Programs > Samsung > Easy Network Manager > Easy 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** To connect to a wireless LAN, select the **AP Setting** from the menu. The available APs are represented as icons. If you double-click an AP icon to connect to, the computer is connected to the AP through the wireless LAN and you are moved to the corresponding location.

Click the **AP Setting** menu item at the top of the screen and double-click one of the available APs.



- The closer to the PC icon  at the bottom of the screen, the stronger the signal from the AP is, while the further from the icon, the weaker the signal strength is.
- If a network key is required, request the key from your network administrator.
- AP Setting is supported in Windows XP SP3 or higher and Vista only.
- Windows XP Tablet PC Edition For the Windows XP Tablet PC Edition operating system, set up the AP referring to Connecting to a Wireless LAN. [105](#)

## Diagnosing the Network Status

You can diagnose the network state and find solutions for why you cannot connect to the network.

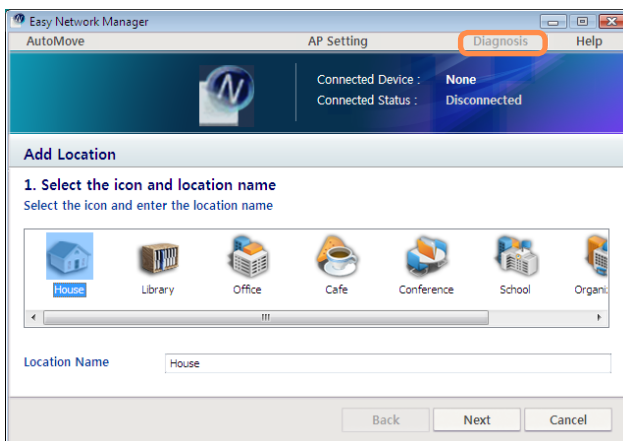
**1** Launch **Easy Network Manager**.

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

**3** The Network Connections window appears.


Click **Start** to start the network diagnosis.

**4** When the diagnosis is complete, a device with a problem is marked by a **X** mark icon with a description of the problem at the bottom of the window.




## Bluetooth (Optional)

Bluetooth is wireless communications technology that allows access to nearby devices such as another computer, cell phone, printer, keyboard, mouse, etc. without a cable connection. Using Bluetooth, you can exchange files, connect to the Internet, and construct a private network.

-  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.
- Compatibility with a Bluetooth device not certified by a Bluetooth certification or logo is not guaranteed.

## Bluetooth Functions

<b>File Transmission</b>	You can exchange files between two Bluetooth devices. You can exchange files with another Bluetooth device such as another computer, cell phone, PDA, etc.
<b>Network Access</b>	You can connect to another Bluetooth-installed computer in the same way as an Ad-Hoc mode in wireless LAN and connect to the network via an AP or an Internet connection sharing server.
<b>Network Access through a Phone Connection</b>	You can connect to the network via a Bluetooth cell phone.
<b>Electronic Business Card (Vcard) Exchange</b>	You can exchange PIMS data (Outlook e-mail address data) and electronic business cards with Bluetooth devices such as mobile phones, PDAs, notebook computers, etc.
<b>Sound Output</b>	You can output computer sound to another Bluetooth device or vice versa.
<b>HID Connections</b>	You can connect and use Bluetooth peripherals such as a keyboard, mouse, joystick, etc.

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

## Using Bluetooth

### Exchanging Files between Bluetooth Computers

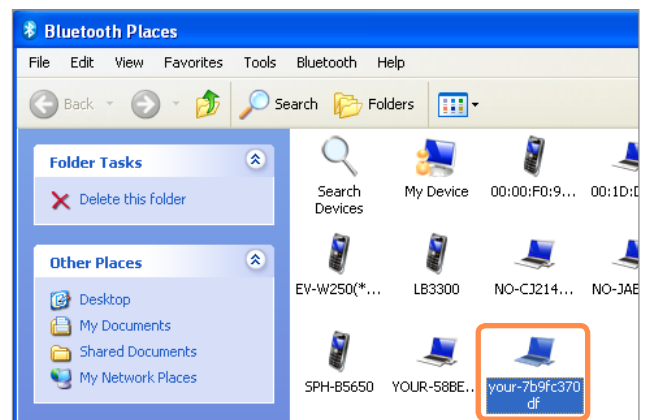
The procedures to transmit files and folders between Bluetooth computers are described below.

- 1 Double-click the **Bluetooth** icon  in the system tray of the Taskbar.



- 2 When the **Bluetooth Places** window appears, double-click on Search Device to search for surrounding Bluetooth devices.

- 3 When devices are found, available Bluetooth devices are listed. Double-click the computer onto which you wish to send files, among the found device list.



- You can find the device only when the device to receive files is set as searchable. For more information on the setting, refer to the manual of the corresponding device.
- In this computer, to change the setting, **right-click** over the Bluetooth icon in the Taskbar > select **My Device Properties** > **Accessibility** tab > “**Allow other Bluetooth devices to find this device**”, and change the setting.

- 4 Double-click on **Bluetooth File Transfer**.

**5** Copy the files to be transmitted to the **Bluetooth File Transfer** window and then start the file transmission.

**6** After a while, if the **Bluetooth Passkey** window appears on the computer to receive the files, enter the passkey and click **OK** (e.g.1234).



- A passkey (PIN code) is the password used between two devices connected through Bluetooth. You can enter the same number on both devices.
- The Bluetooth Password window or message may differ from above depending on the computer that is receiving the files.
- The Bluetooth Password window may appear on the computer to transmit files first depending on the computers.

**7** When the **Bluetooth Passkey** window appears, enter the passkey that you have entered on the computer to receive files and click **OK** (e.g.1234).



Once the pairing is done between two computers, the **Bluetooth Passkey** window does not appear.

**8** If a message appears asking you if you want to allow access on the computer to receive the files, click **Yes**.

**9** The files are copied. When the file transmission is complete, the file reception completion message appears in the Taskbar of the computer that received the files.

## Usage Instructions

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- Generally, Bluetooth devices deliver stable performance while connected within a 3m(10 ft.) distance.
- For Bluetooth to operate smoothly, use the computer in an open environment with no walls or obstacles in the way and having low radio interference.
- You can connect to only one Bluetooth device at a time for a phone connection, data syncing, electronic business card exchange, FAX transmission/reception, sound related functions, and serial port functions.
- It is recommended using only one Bluetooth device at a time as connecting multiple Bluetooth or other wireless devices at the same time may slow or destabilize the Bluetooth connection.
- Data communications via Bluetooth may be poor when the CPU load is at full capacity or there are insufficient system resources.
- 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 relevant device manual.
- The services provided by Bluetooth devices may vary depending on their capabilities. For the services provided by the Bluetooth device, refer to the device manual.



## **Chapter 5.**

# **Using Applications**


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## Introducing Programs

Using the software supplied with the Samsung computer, you can easily use functions and troubleshoot problems.

Try to use the software after learning about the basic use of the software. For detailed information, refer to the help section of the corresponding software.



 Every software program may not be provided or the version may differ depending on your computer model.

In addition, the screen capture images may differ from actual ones depending on the computer model and software version.







## Multi Media Functions







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- **CyberLink YouCam**  (Optional)  
Using this program, you can easily capture photos and videos with your web camera. CyberLink YouCam makes it more fun to have online video chats or to record videos with live effects.  119

## Management Functions

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- **Samsung Update Plus**  (Optional)  
Samsung Update Plus is a software function that examines and updates the Samsung software and drivers installed on your Samsung computer to the optimal versions.  121
- **McAfee SecurityCenter**  (Optional)  
This is a security solution that detects and removes computer viruses and protects the computer from Internet threats.  123


- **Easy Network Manager**  (Optional)  
Easy Network Manager is a program that enables you to easily configure the network settings.  
You can configure the network settings for each location and you can also diagnose the network status.  107
- **Samsung Battery Manager**  (Optional)  
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.  143
- **eGalax Touch**  (Optional)  
eGalax Touch is a program used to calibrate the Stylus Pen when the pointer position is not correct.  57

## Troubleshooting Functions

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- **SAMSUNG Magic Doctor**  (Optional)

SAMSUNG Magic Doctor is troubleshooting software provided by Samsung Computer for system diagnosis, and restoring the system.

The system diagnosis function enables users to diagnose system problems without assistance from others.  128

- **Samsung Recovery Solution**  (Optional)

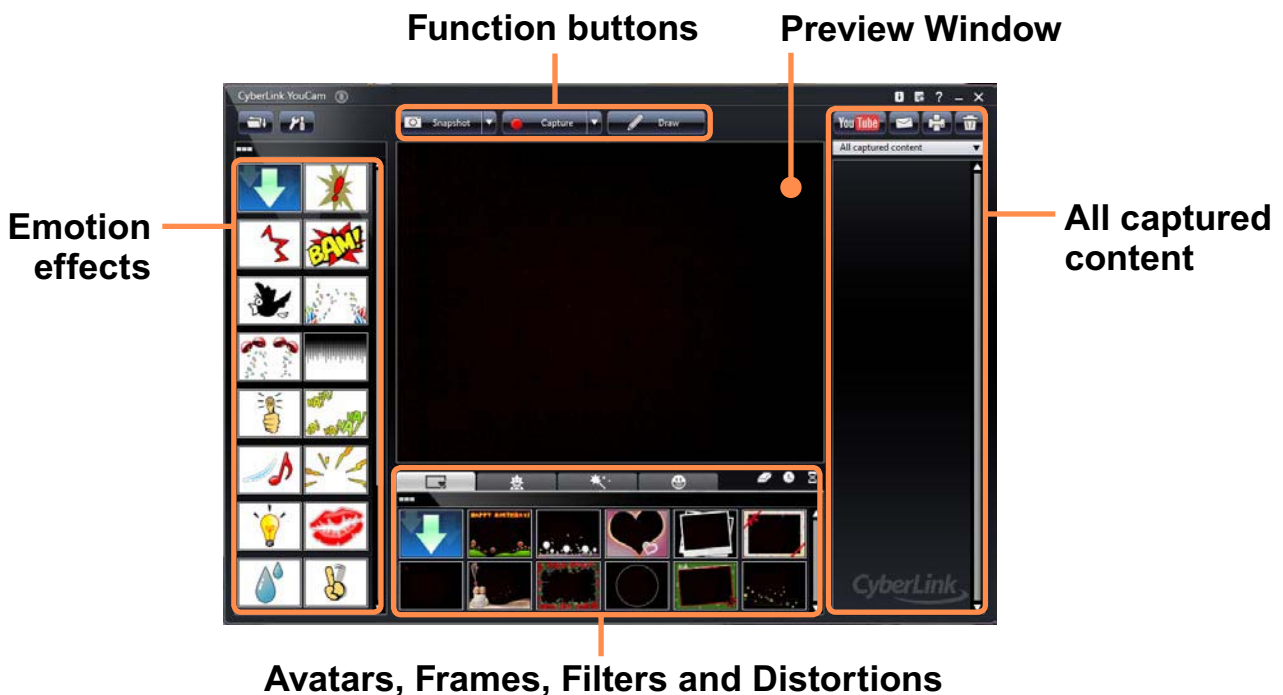
Samsung Recovery Solution provides a **Restore Function** that enables you to easily restore your computer to a previous, normal state when a problem occurs with your computer, as well as a **Backup Function** that enables you to easily save your computer's current status and your data.

## CyberLink YouCam (Optional)


CyberLink YouCam makes it more fun to have online video chats or to record videos with live effects.

- The program versions described in this manual are subject to change and the screen images and terms in this manual may differ from actual product.
  - For more information on how to use the program, refer to the online help.
- Do not take pictures or record video of someone without their permission.
  - Do not take pictures or record video in locations where photography is prohibited.
  - Do not take pictures or record video in locations where you could violate another person's privacy.

1 Double click the **CyberLink YouCam** icon  on the Desktop. Or click **Start > All programs > Samsung > CyberLink YouCam > CyberLink YouCam**.





If you click the **settings** button , you can configure the capture, display and document settings.

**2** Click the **Snapshot**  or **Capture** button  in front of the camera. A snapshot is taken or video starts recording.



- To stop a video recording, click the **Stop**  button. The recording is stopped.
- By applying several effects or avatars to your photos or videos while capturing, you can make your own contents fun and interesting.


**3** You can view your captured photos and videos in the **All captured content** window.

You can view a picture or watch a video by double-clicking it.

## Samsung Update Plus (Optional)


Samsung Update Plus is software that examines and updates the Samsung software and drivers installed on your Samsung computer to the optimal version.

- To check for updates and update your computer using Samsung Update Plus, your computer must be connected to the Internet.
- The update search result may differ depending on your computer model.
- The program versions described in this manual are subject to change and the screen images and terms in this manual may differ from actual product.

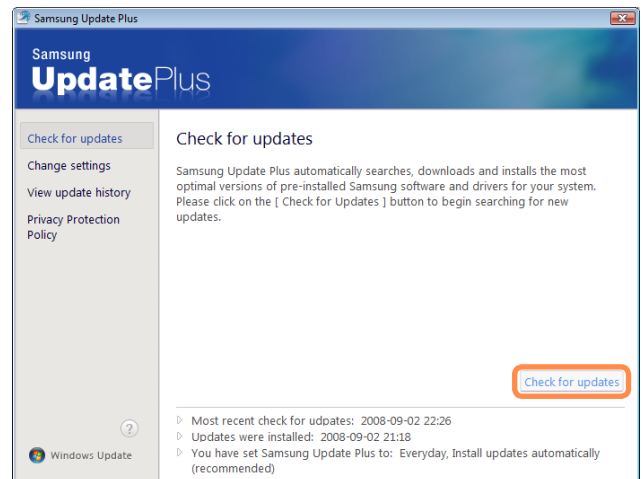
 Samsung Update Plus does not provide updates for applications installed after purchasing the computer.

### To update the software and drivers

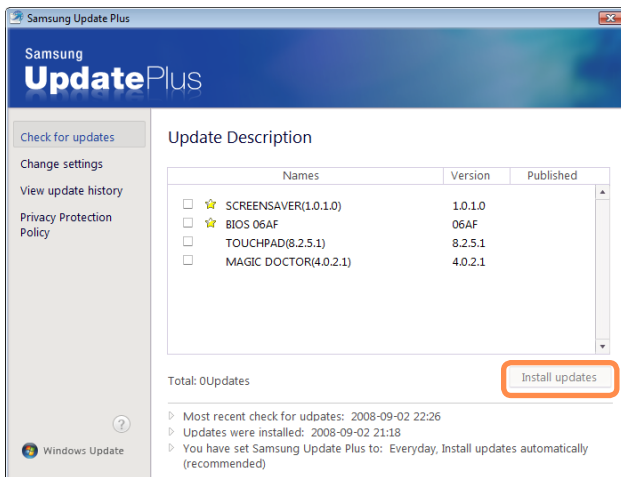
- 1 Select **Start > All Programs > Samsung > Samsung Update Plus > Samsung Update Plus**.

 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 If you click on **Check for updates**, new updates are searched for.

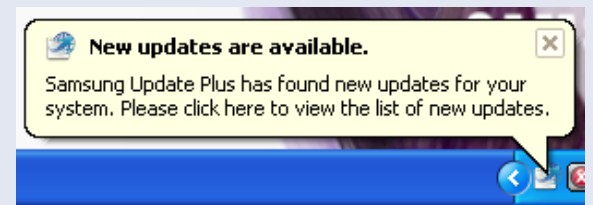


- 3** If there are available software or driver updates for your computer, the available updates will be listed. Select the required updates from the list and click **Install Update** to start the update. (The update list on the screen may differ depending on the computer model.)



### Automatic update items display

By default, your computer is configured to automatically check 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.



### Updates that must be installed separately.

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

## McAfee SecurityCenter (Optional)

McAfee SecurityCenter (a virus/spyware detection and protection software that includes a firewall function. Hereafter, referred to as “McAfee”) is software that protects your PC from various Internet threats as well as detecting and removing viruses.

- For more detailed information on the program, refer to the McAfee help.
- You can register McAfee when connected to the Internet.
- McAfee software is optional. It may not be supplied for some models or it may be supplied through the McAfee installation icon. When the installation icon is provided, you have to install the program referring to the Installing McAfee section.
- A different anti-virus program may be provided depending on the computer model.

## Installing McAfee

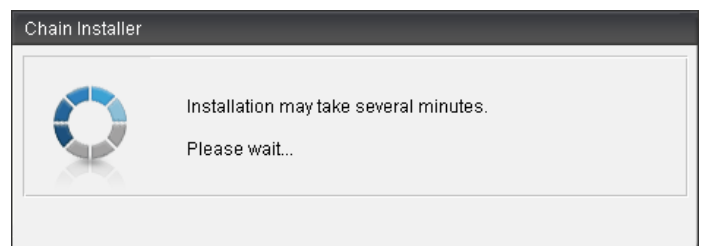
For some models, an **Install McAfee Web Essentials** icon is located on the Desktop. In this case, you can install the McAfee software according to the following procedures and then use the McAfee software.

For some models, a **McAfee Security Center** icon  is located on the Desktop, since the software is already installed, the installation step is not required.

- ① Double click the **Install McAfee Web Essentials** icon  on the Desktop.



- ② The **Chain Installer** window opens and the installation begins automatically. Please wait for a moment.



- ③ When the installation is complete, the **Chain Installer** window disappears.



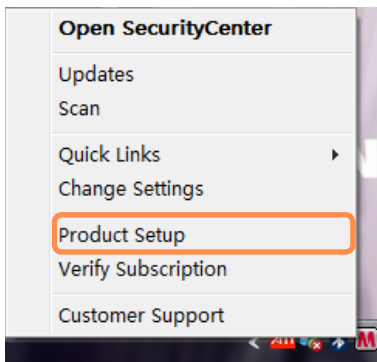
## Using McAfee

To use McAfee, user registration is required. If a user is not registered, even though virus inspection is supported, your PC will not be completely protected because the virus information will not be updated with the latest information. The procedures to inspect and heal viruses after the user registration will be described below.

### User Registration

**1** The **Program Setup** screen appears while booting. Click **Next**.

If the **Program Setup** screen does not appear, right-click over the **McAfee** icon  in the Taskbar and then select **Product Setup** from the pop-up menu.



**2** The **End User License Agreement** appears.

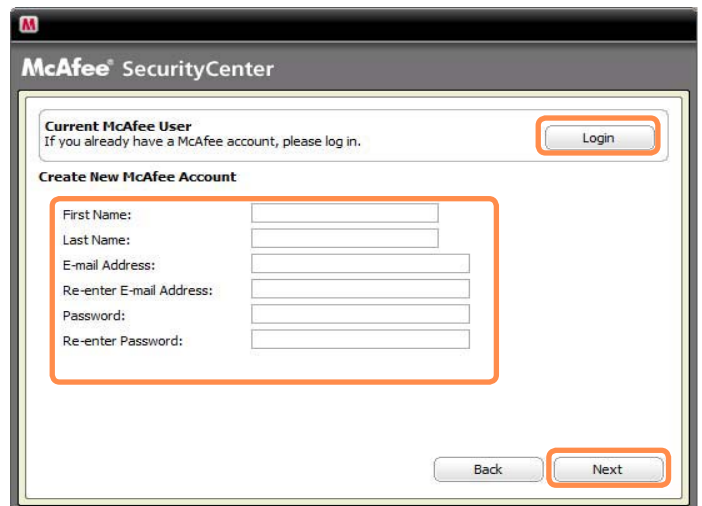
Check if the country has been correctly selected and then click **Accept**.

**3** The **Create New McAfee Account** item appears.

Be sure to fill in all the fields and click **Next**. The **Program Setup Completed** window appears.



If you have already registered with McAfee, click **Login** and enter the registered email address and password to login. The **Program Setup Completed** window appears.

A screenshot of the McAfee SecurityCenter 'Create New McAfee Account' screen. The screen shows a 'Current McAfee User' section with a 'Login' button. Below it is the 'Create New McAfee Account' section with form fields for First Name, Last Name, E-mail Address, Re-enter E-mail Address, Password, and Re-enter Password. The 'Next' button is highlighted with an orange box.

## Inspecting and Healing Viruses

The procedures to check if the computer's files or information have been infected by a virus and to heal viruses found by McAfee are described below.

**1** Click **Start > All Programs > McAfee > McAfeeSecurityCenter**.

**2** Click the **Scan** button on the left side of the program. The **Scan** begins.


At this time, if a virus is found, it is immediately healed during the inspection.



**3** If a virus has been found, click **View Results**.

The viruses are listed. Since the corresponding viruses have already been removed, you can use your computer without any concern.



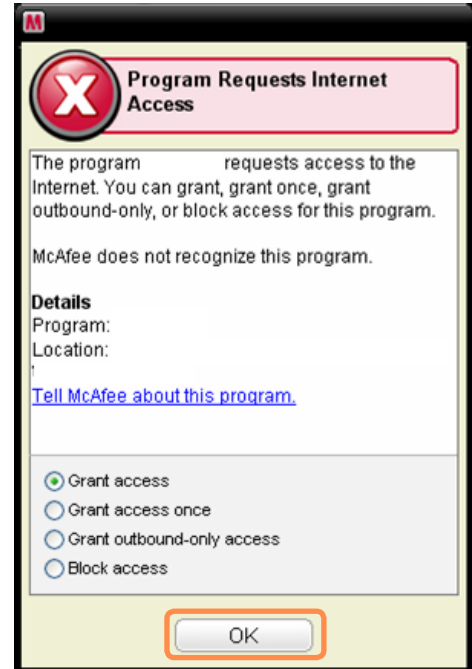
- For possible virus infections (where it is not completely certain), the **Detected** message appears. In this case, the items will be maintained or deleted depending on your decision.
- To deal with new viruses, please always keep McAfeeSecurityCenter up to date. In general, it is automatically updated when connected to the Internet. Alternatively, you can update it manually by clicking **Update**  after connecting to the Internet.

## Configuring the McAfee Firewall

The McAfee Firewall is configured for the product when purchasing the product in order to protect the computer from viruses. However, if the firewall is activated, you may not connect to the network or the Internet properly. In this case, you have to change the settings as follows.

### Method 1) When you need to select **Allow Access in the Server or Internet Access Request window.**

When you connect to a bank, stock market, or gaming website, an access request window appears. In this case, select **Allow Access** in the window and click **OK**. Then you can install the program normally or open the page.



## Method 2) When you need to deactivate the Firewall

If you cannot connect to the Internet when using a broadband Internet service, you can connect to the Internet normally if you disable the McAfee Firewall. However, since it may cause a security problem, be careful when doing so.

- ① Double-click the **McAfee Security Center** icon from the Desktop.
- ② Click the **Advanced menu** at the bottom left and click **Configure > Internet&Network**.
- ③ Turn the **Internet&Network** at the right to **Off**, set the **Select when to re-enable firewall** to **Never** and then click **OK**.
- ④ Click **Home** in the left menu pane and click **Ignore** next to the '**Firewall protection is disabled**' message.



It is recommended activating the Windows Firewall for your computer's safety when you have disabled the McAfee Firewall. To activate the Windows Firewall, click **Start > Control Panel > Windows Firewall > Change Settings > On(recommended)**.

## Using Samsung Magic Doctor (Optional)

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

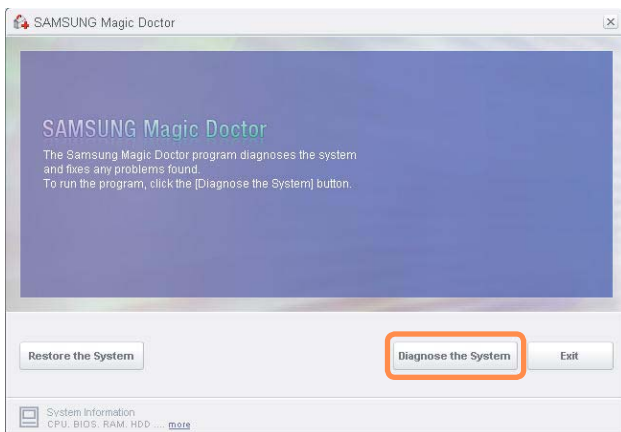


The screens used in this manual may differ from actual screens according to the program version.

### Diagnosing the System

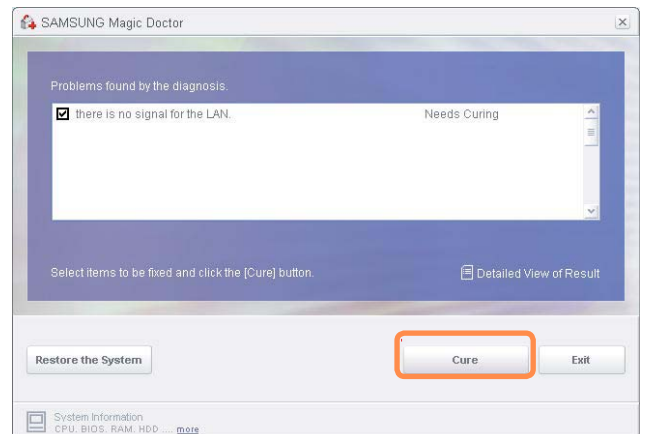
**1** Select **Start > All Programs > Samsung > Samsung Magic Doctor > Samsung Magic Doctor**.

**2** Click the Diagnose the System icon.



The system status diagnostics start.

**3** When the system status diagnostics are complete, the diagnostics result appears.



If a problem has been found, click on **Cure** for Samsung Magic Doctor to cure the problem.

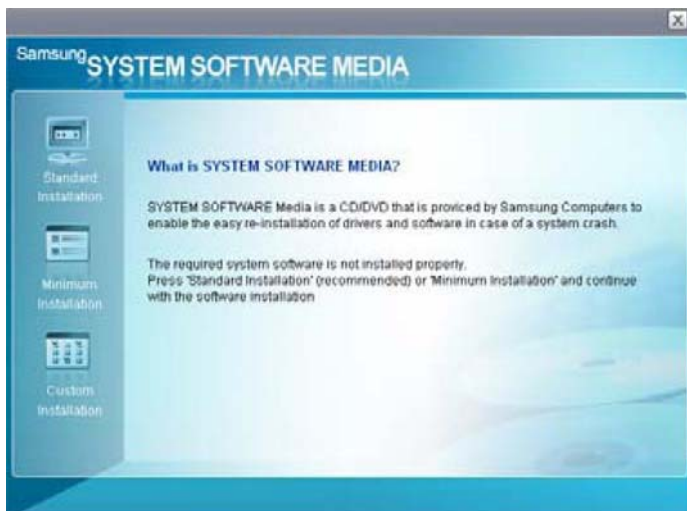
## Reinstalling Software

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.

- When software is not working properly, it is recommended removing the software using the Add or Remove Programs of the Control Panel and reinstalling the software using the System Software Media.  
The System Software Media is supplied as a CD or DVD depending on your computer model.
- 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.

### Running the System Software Media

Insert the **System Software Media** into the CD-ROM drive. 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** Select **Standard Installation** in the **System Software Media** main screen.

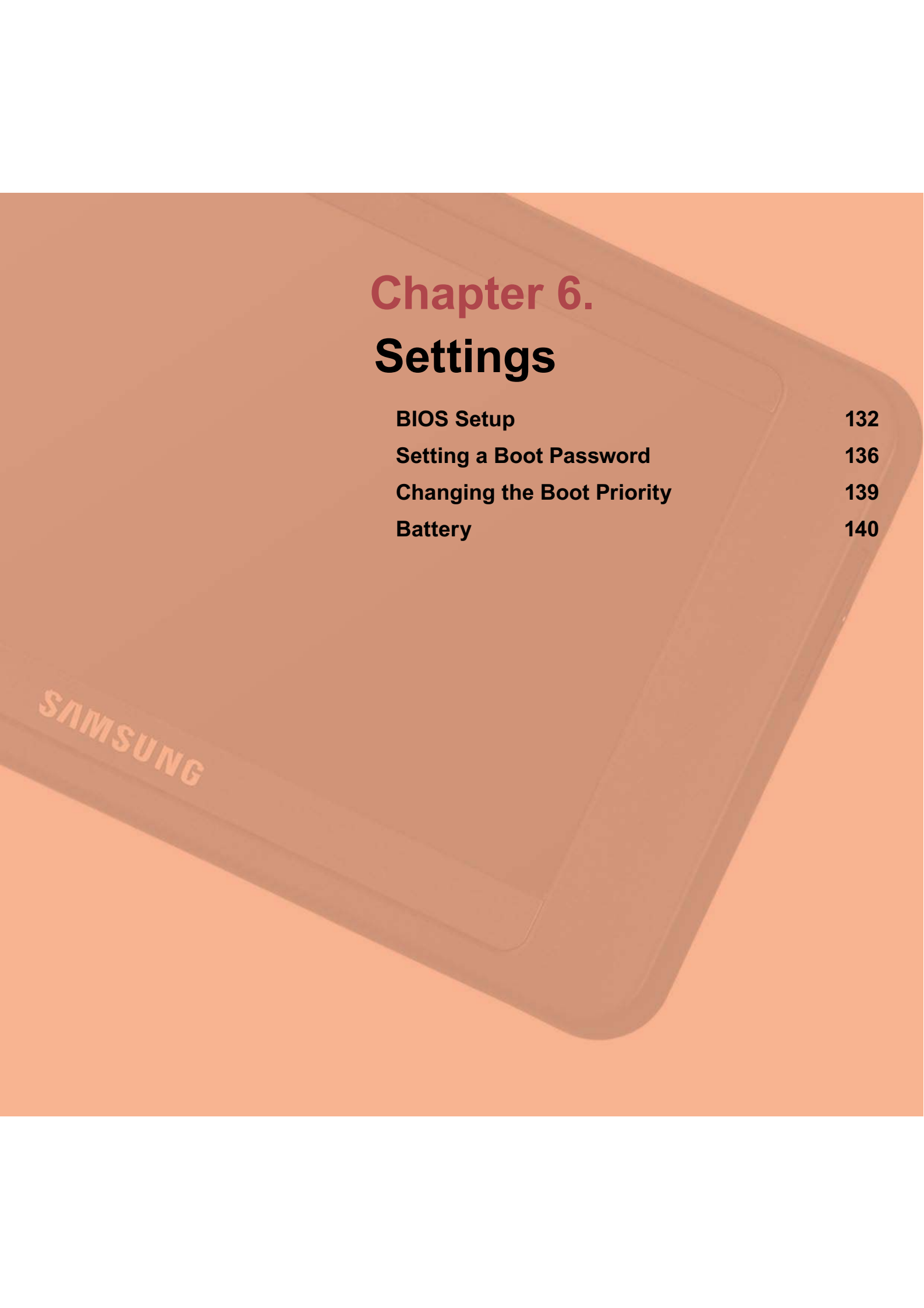
**2** The system is scanned to display the drivers and programs that need to be installed.

**3** Click **OK**.

The drivers and programs are automatically installed as factory defaults.



**4** When done, restart the system.



## **Chapter 6.**

# **Settings**

<b>BIOS Setup</b>	<b>132</b>
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## BIOS Setup


The BIOS Setup enables you to configure your computer hardware according to your needs.

When configuring the Setup, connecting and using an **external USB keyboard** or **Organizer** (optional) is more convenient.

This manual describes the procedures assuming that an external keyboard has been connected.

The **Wheel button** supports entering Setup, navigating the menu and selecting some items.


- Use the BIOS setup to define a boot password, change the booting priority, or add a new device.  
Since incorrect settings may cause your system to malfunction or crash, take care when configuring the BIOS.
- The functions of the BIOS setup are subject to change for product function enhancement purposes.

 The BIOS Setup menus and items may differ depending on your computer model.

### Entering the BIOS Setup

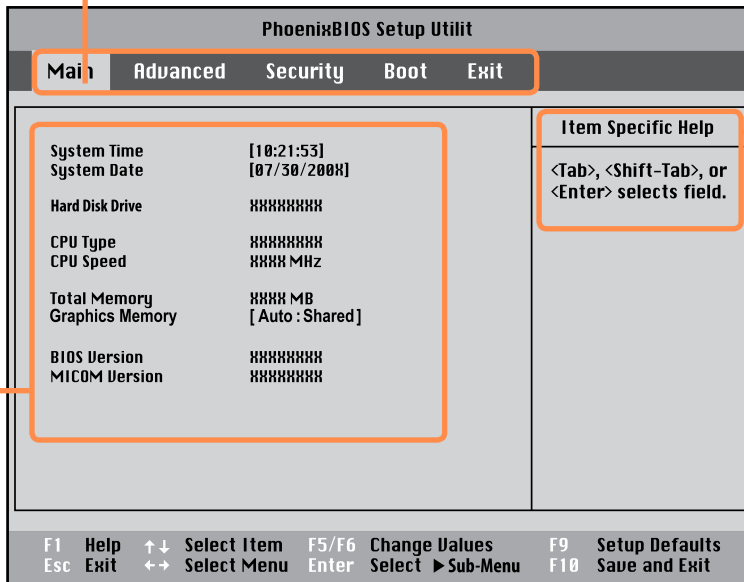
- 1 Slide the **Power Switch** down. The computer is turned on.
- 2 When the booting screen (SAMSUNG logo) appears, press the **F2** key to enter the BIOS Setup.



 Press the **F12** key while the booting screen(SAMSUNG logo) appears, the system will try to boot from the network.

- 3** After a moment, the BIOS setup screen appears.  
The items in the BIOS setup may differ depending on the product.

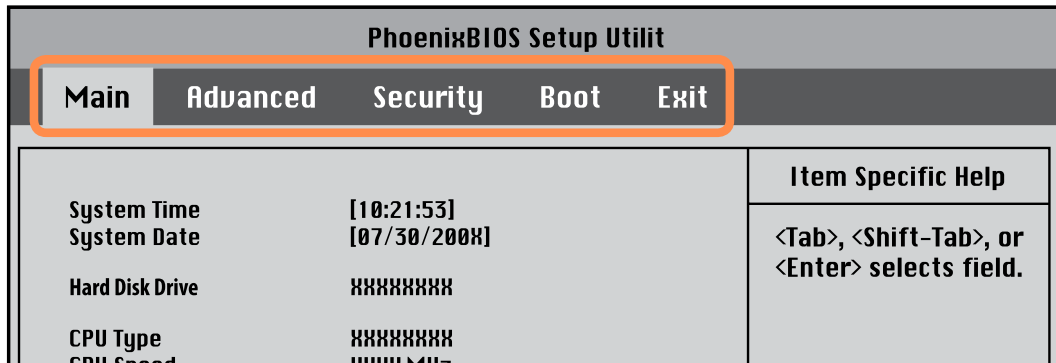
### Setup Menu



**Help**  
Help for the selected item appears automatically.

**Setup Items**

## The BIOS Setup Screen



Menu	Description
<b>Main</b>	Used to change the basic system and environment settings.
<b>Advanced</b>	Used to configure advanced functions on your computer around devices and chipsets.
<b>Security</b>	Used to configure security functions, including passwords.
<b>Boot</b>	Used to set the boot priority and other boot options
<b>Exit</b>	Used to exit the Setup either saving the changes or not.

## System Setup Buttons (Keys)

You can change the Setup configuration by connecting an **external keyboard**. When an external keyboard is not connected, you can navigate the menu and select some items with the **Wheel button**.

Function	Function Description
To move to the up or down item.	Turn the <b>Wheel button</b> up or down or press the <b>Up</b> (↑) or <b>Down</b> (↓) key on the external keyboard.
To move to another menu.	Select the main menu and turn the <b>Wheel button</b> up or down or press the <b>Left</b> (←) or <b>Right</b> (→) key on the external keyboard.
To select an item or to enter a submenu.	Press the <b>Wheel button</b> or press the <b>Enter</b> key of the external keyboard.
To move to the high-level menu or to move to the Exit menu.	To return to the high-level menu from a submenu or to move to the Exit menu, press the <b>Esc</b> key on the external keyboard.
To view the help.	Press the <b>F1</b> key on the external keyboard.
To change an item value.	Press the <b>F5/F6</b> key on the external keyboard.
To restore the Setup defaults.	Press the <b>F9</b> key of the external keyboard. When no external keyboard is connected, select <b>Exit &gt; Load Setup Default</b> from the Setup menu.
To save the Setup configuration.	Press the <b>F10</b> key of the external keyboard. When no external keyboard is connected, select <b>Exit &gt; Exit Saving Changes</b> from the Setup menu.



### Exiting the System Setup

1. Move to **Exit Menu > Exit Saving Changes** and press the **Enter** button.
2. Select **Yes** and press the **Enter** button. The System Setup is closed and Windows is started.

## Setting a Boot Password

When setting a password, you have to enter a password to use the computer or enter the BIOS Setup.

By configuring a password, you can restrict system access to authorized users only and protect data and files saved on the computer.



- 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)'.  
☰ 135

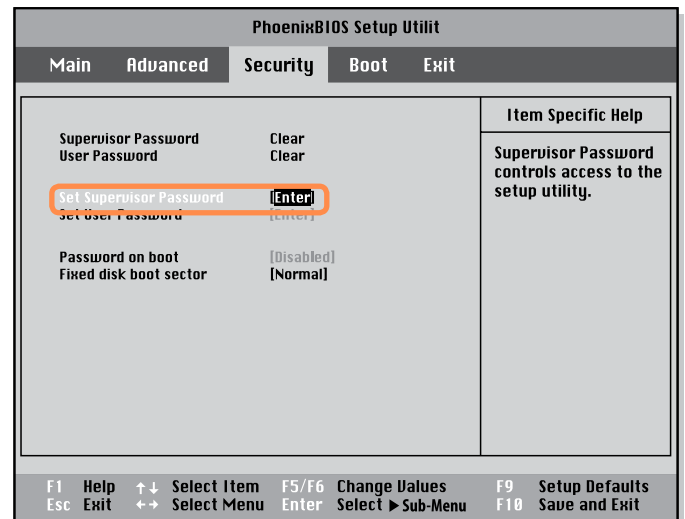
## Setting a Supervisor Password

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

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

- 1 Select the **Security** menu in the BIOS Setup.

- 2 In the **Set Supervisor Password** item, press <Enter>.



- 3 You can use up to 8 alphanumeric characters for a password but you cannot use special characters.



- 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 a user password, but cannot enter the System Setup. By doing this, you can prevent other users from entering Setup.

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

This computer is configured to boot from an external-type ODD first.

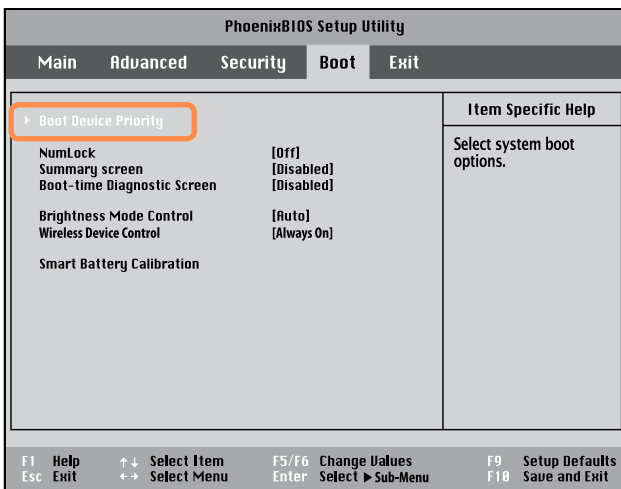
This chapter describes how to change the boot priority so that the computer boots from the hard disk drive first.



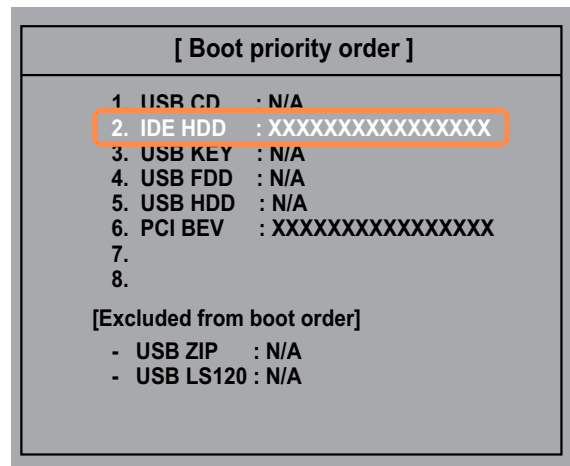
The function is only available when an **external USB keyboard** or **Organizer** (optional) is installed.

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

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



**3** Press the down key (↓) to move to the **IDE HDD** item and press the **F6** key to move up to the top item.



**4** Press the **F10** key to save the settings and exit Setup.

The highest boot priority device is now set to the Hard Drive.



## 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.



Carefully read and follow the precautions printed on the battery before using the battery.



### Precautions

Use only chargers specified in the User 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 Guide before using the battery.

Please refer to the system operation environment (☞ 177) of this guide. Operate and store the battery at room temperature.

## Installing/Removing the Battery

- 1 Shutdown the system and place the computer upside down on a flat surface.
- 2 Lift the Stand up and push the Battery Latch down into the **Release** (☐↷) position.  
Lift the battery up and separate it.



- 3** To reinstall the battery, align the battery to the outside of the computer and insert the battery.

Lift the battery latch up to the **Lock** (Ⓐ) position and put the Stand down.



## Charging the Battery

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

The battery will then start charging.

- 2** When charging is complete, the Charge LED turns green.

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



When you are unable to insert the battery, check if the battery latch is in the **Release** (Ⓑ) position. If it is in the **Lock** (Ⓐ) position, you cannot insert the battery.

## Measuring the Remaining Battery Charge

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

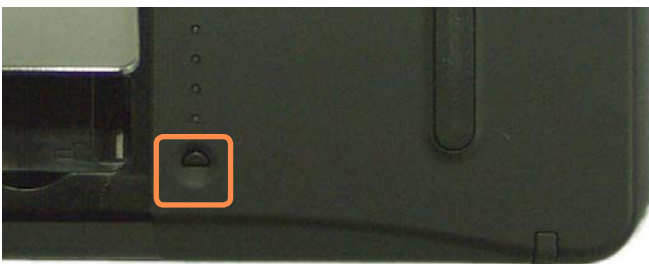
### Viewing through the MENU Program

Press the **Wheel button** to run the **MENU** program.  
Confirm the battery icon at the top of the **MENU** program.



### To view on the battery

Press the button on the outside of the battery to check the remaining battery charge.



### 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.

### Battery Usage Time Information

A battery is an expendable supply, so when using it over a long time, the capacity/battery life is shortened. If the battery life is reduced to under half of its initial time, we recommend purchasing 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

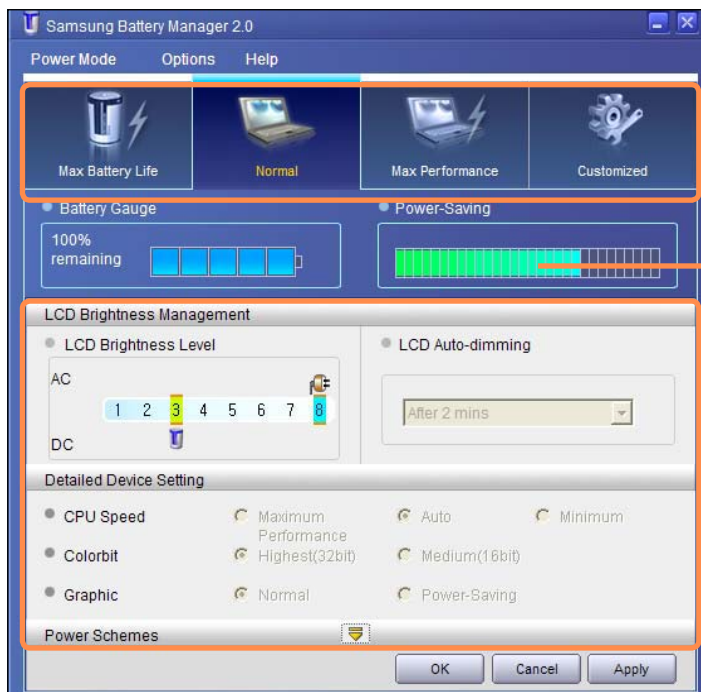
### Decreasing the LCD Brightness

Press the **Wheel button** to run the **MENU** program and turn the **Wheel button** down while the Brightness is selected or press  to make the LCD brightness dimmer and to extend the battery use time.

### Using Samsung Battery Manager

Samsung Battery Manager is a power management program that enables using the 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.

<b>Maximum Battery Saving Mode</b>	This mode is appropriate for conditions which require the maximum battery usage time. This may degrade the performance of the system.
<b>Normal Mode</b>	This mode is appropriate for normal conditions. Both system performance and battery usage time are optimized.
<b>Maximum Performance Mode</b>	This mode is appropriate for conditions that require maximum system performance. Therefore, the battery usage time may be reduced in this mode.
<b>Custom Mode</b>	In this mode, you can configure the unit to save battery usage. You can adjust the LCD brightness, the system standby time, the screen color quality, and the graphics 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.

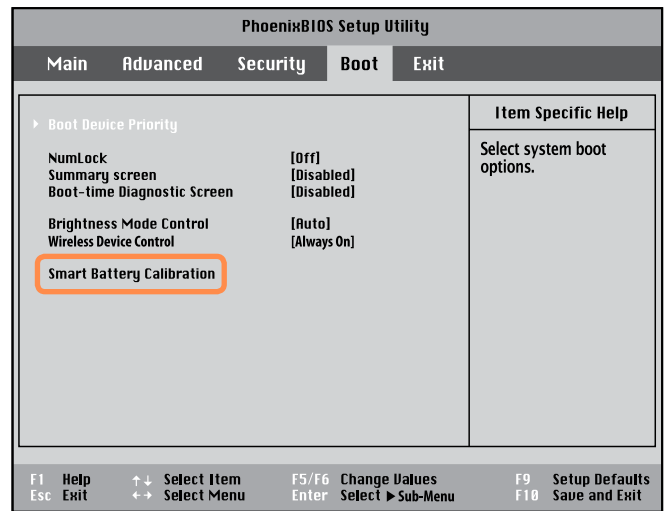
## Using the Battery Calibration Function

When charging/discharging the battery repeatedly for a short time only, 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 computer.

**2** Restart your computer and press the **F2** button when the Samsung logo appears, to start the BIOS Setup.

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



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

The Battery Calibration function is activated and the battery is forcefully discharged. To stop the operation, press the **Esc** button.

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

# Chapter 7.

## Appendix

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## Reinstalling Windows XP

You can reinstall Windows using the **System Recovery CD** when Windows does not work properly.



- **System Recovery CD** is optional and may not be provided depending on your computer model.
- To install Windows, an **external-type ODD** and a **USB keyboard** are required. **Connect the external-type ODD and USB keyboard before turning the computer on. If you connect a USB keyboard during the installation, the computer will fail to recognize the USB keyboard.**

The following descriptions assume that an external ODD and an external USB keyboard are connected.

- To reinstall Windows when Windows does not boot, refer to [☰ 151](#).



**Reinstalling Windows may delete data (files and programs) saved on the hard disk drive.**

Make sure to backup all important data. Samsung Electronics shall not be held liable for any loss of data.

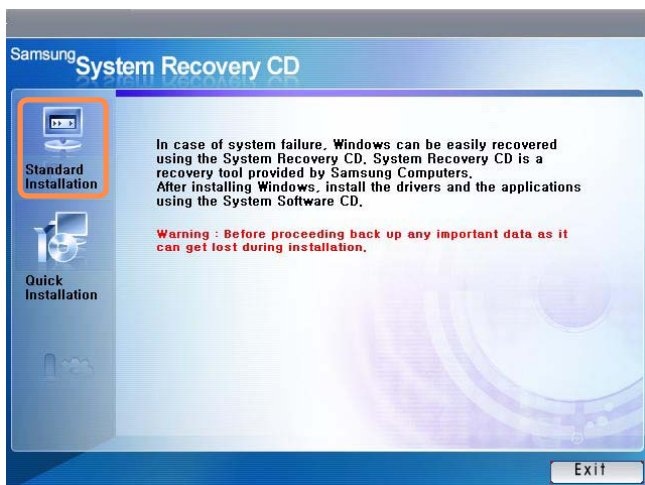
## Running the System Recovery CD



- **Preparation**
  1. Connect an external-type ODD through the **USB Port** of the computer.
  2. Connect the **external-type USB keyboard**.
  3. Turn the computer on to boot up Windows.

Insert the **System Recovery CD** into the external USB ODD. The start screen will appear automatically.





## ● Standard installation


You can change the settings for partitioning, the installation folder, etc. during the Windows installation. However, 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 data.

## ● Quick Installation

This re-installs Windows with the user data and the system configuration intact. The user data in the already existing Windows folders may be preserved as the existing Windows folders are overwritten.

## Standard Installation

The Windows Standard Installation procedures are described below.

 To install Windows, an **external-type ODD** and a **USB keyboard** are required.

**Connect the external-type ODD and USB keyboard before turning the computer on. If you connect a USB keyboard during the installation, the computer will fail to recognize the USB keyboard.**

- 1** In the **System Recovery CD** 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 CD**' appears. Do not press any key at this time.

After a moment the partition configuration screen appears.

You must select partition C: and press the **Enter** key of the external keyboard.



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



When pressing the **<ESC>** key to select another folder for the installation, a new Windows folder is created causing the 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 CD**" is displayed. You do not need to enter anything. The Windows XP installation screen will appear shortly 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 Settings** window appears, click **Next**. Setup continues and the system restarts.

**9** When the system restarts, the message “**Press any key to boot from CD**” 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 CD** and install the device drivers and applications from the **System Software Media**.  129

## Quick Installation

The Windows Quick Installation procedures are described below.



To install Windows, an **external-type ODD** and a **USB keyboard** are required.

**Connect the external-type ODD and USB keyboard before turning the computer on. If you connect a USB keyboard during the installation, the computer will fail to recognize the USB keyboard.**

**1** In the **System Recovery CD** 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 CD** from the ODD.

## Reinstalling when Windows does not start


When Windows does not start, boot up with the **System Recovery CD** and from there you can reinstall Windows.

 To install Windows, an **external-type ODD** and a **USB keyboard** are required. **Connect the external-type ODD and USB keyboard before turning the computer on. If you connect a USB keyboard during the installation, the computer will fail to recognize the USB keyboard.**

- 1** Insert the **System Recovery CD** into the external USB ODD and restart the computer.
- 2** If the **Press any key to boot from CD** message appears while booting, press any key on the keyboard.
- 3** The partition configuration screen will appear. 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>**.  148

## Using Samsung Recovery Solution (Optional)

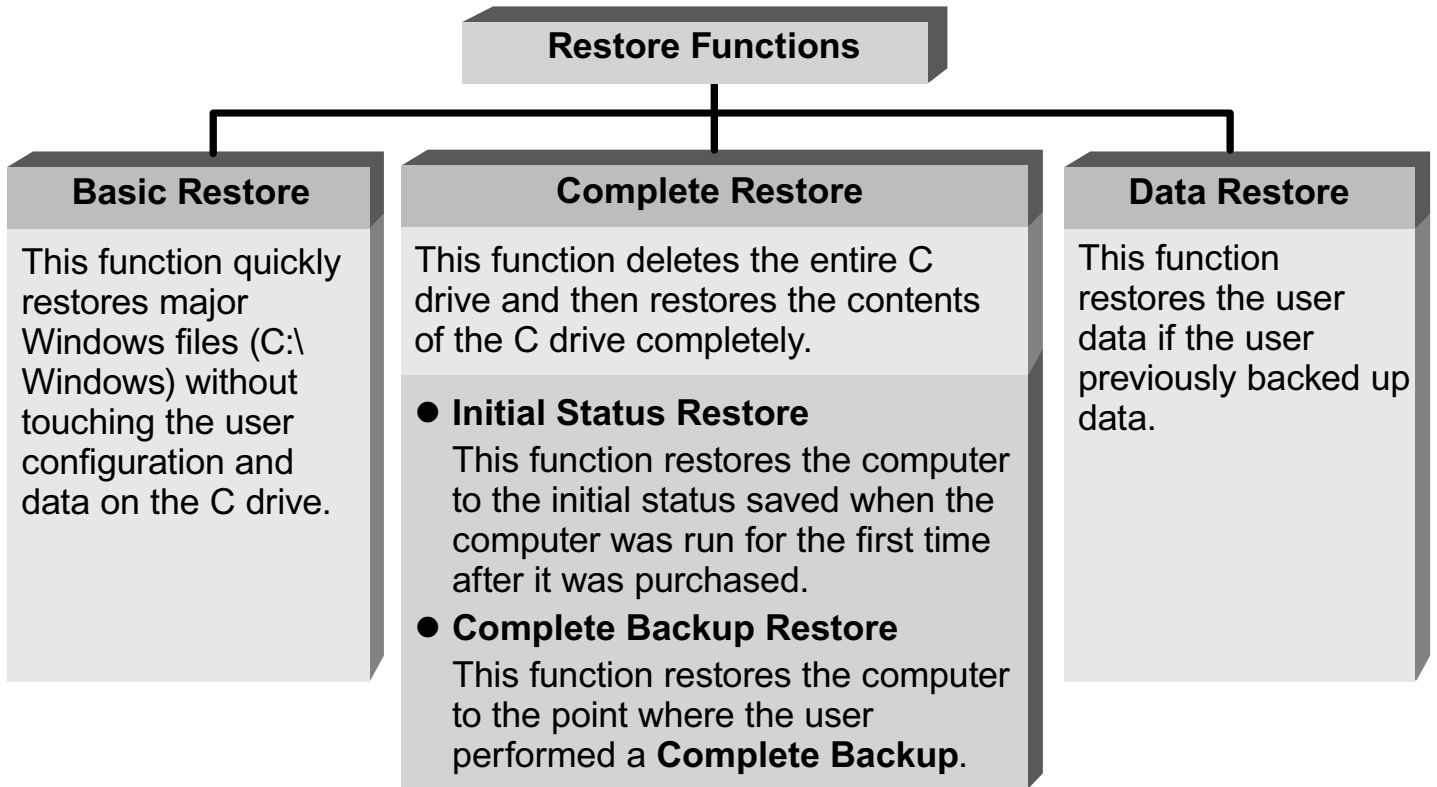
Samsung Recovery Solution provides a **Restore Function** that enables you to easily restore your computer to a previous, normal state when a problem occurs with your computer, as well as a **Backup Function** that enables you to easily save your computer's current status and your data.

-  Samsung Recovery Solution may not be provided or the version may differ depending on your computer model and the usage procedures may differ depending on the version. The screen images in this document may differ from actual ones.
  - For models with an SSD (Solid State Disk), Samsung Recovery Solution is not provided.
  - To use the backup and restore function to DVD, an external ODD must be connected. The following descriptions assume that an external ODD is connected.
  - To use Samsung Recovery Solution, an external-type ODD and a USB keyboard are required.
- The following descriptions assume that an external ODD and an external USB keyboard are connected.

## Samsung Recovery Solution Functions

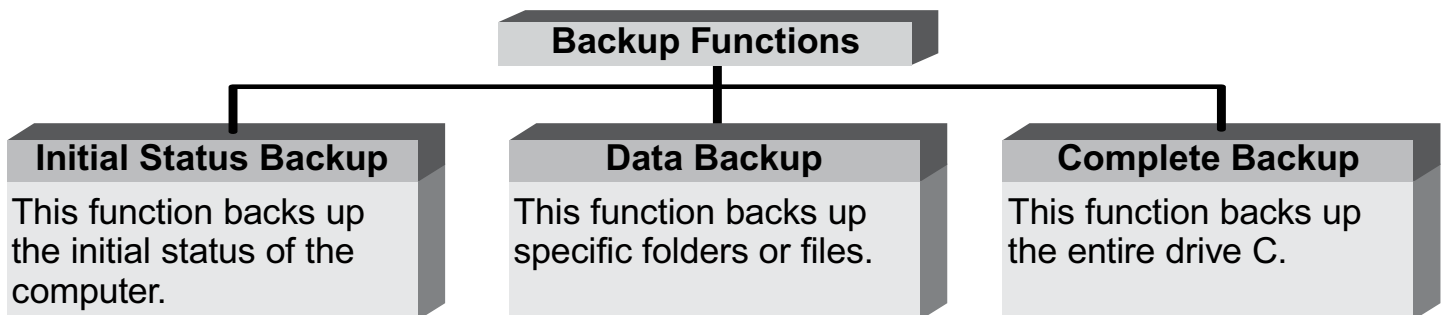
### ● Restore Function

Using this function, you can easily restore your computer to a previous, normal state without using the System Recovery Media or the Windows Installation CD, when your computer is no longer working properly or fails to boot up due to a problem. If you have backed up data, you can restore the backup data.



● **Backup Function**

You can backup the entire C drive or all your data to **another hard disk drive** or **DVD**. You can restore the backed up drive or data using the Restore function.



## Using Samsung Recovery Solution

Not only can you use Samsung Recovery Solution when Windows is running, but also when you are unable to boot up into Windows. Let's learn how to use Samsung Recovery Solution.

### Initial Status Backup

If you turn your computer on for the first time, the Initial Status Backup function is performed after registering Windows. This function saves an image of the Initial Status of the C drive to a secure location so that users can restore the computer to the Initial Status using the Complete Restore function. An Initial Status Backup is only performed once immediately after the computer is purchased.

- 1 If you turn the power on for the first time, the Register Windows screen appears. If you register Windows according to the instructions on the screen, the computer will be restarted.
- 2 When the computer has been restarted, the User Registration Complete message appears. Click **OK**. The computer will restart.

- 3 The **Initial Status Backup** screen appears.

To resize the C and D drives, click **Advanced** and partition the disk accordingly. Adjust the partition size using the slide bar and then click **Next**.



The partition disk function is only available when the computer is turned on for the first time and will not be available afterwards. Once you have completed the partitions, you cannot resize the partitions. Therefore partition the disk carefully.

- 4 The Initial Status Backup is performed to backup the initial status of the C drive to a secure location. This backup image is used for the **Complete Restore** function that restores your computer to the initial status when the computer is not working properly.
- 5 When the Initial Status Backup is complete, restart Windows.

## Quick Restore

---

Quick Restore enables you to easily restore your computer to a previous, normal state when a problem occurs with your computer. Quick Restore provides Basic Restore and Complete Restore (Computer Initial Status Restore) options.

### 1 – When Windows is running:

Click **Start > All Programs > Samsung > Samsung Recovery Solution > Samsung Recovery Solution**.

### – When Windows does not start:

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



The touch screen function is not supported in this mode even if your model supports a touch screen. In this mode, please use the touchpad or mouse instead of the touch screen.

2 If the Samsung Recovery Solution program is launched for the first time after purchasing the computer, the license agreement screen appears before the restoration is started. Read the agreement and click **Agree** to continue.

3 If the initial menu screen appears, click **Restore**.



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

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

- A **Basic Restore** restores the major Windows files only while maintaining the user configuration and data on the C drive in a short time.
- A **Complete Restore** deletes the entire C drive and then restores the contents of the C drive.





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

#### 4-1 If you have selected **Basic Restore**:

In the Basic Restore screen, click the **Next** button. The system will be restarted.

#### 4-2 If you have selected **Complete Restore**:

In the restoration point selection screen, select the restoration point described as 'Computer Initial Status' and click the **Next** button. The system will be restarted.



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

**5** The computer boots up into restoration mode and the restoration progress message appears. If you click **OK**, the restoration begins. The restoration may take some time, please wait for a moment.

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



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

## User Complete Backup/Restore

A **Complete Backup** saves the complete image of the C drive onto another drive or DVD. A **Complete Restore** restores the image file saved by the Complete Backup onto the C drive. This guide describes the Complete Backup and Complete Restore procedures on the basis of backing up and restoring by using DVD.

## ● Complete Backup



- If you run Complete Backup using a DVD, you can restore the computer even when a problem occurs with the hard disk or when the restoration area is removed.
- To perform a complete backup onto DVD, an external ODD that supports DVD burning must be connected.

- 1 Click **Start > All Programs > Samsung > Samsung Recovery Solution > Samsung Recovery Solution**.

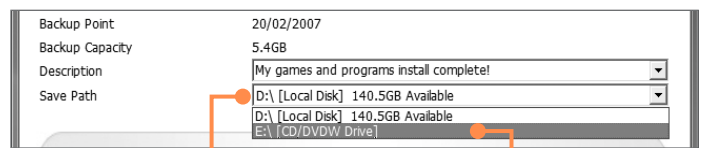


When you cannot start Windows, turn the computer on and press the F4 key in the boot screen to enter restoration mode.

- 2 When the initial menu screen appears, click **Backup**.

- 3 Click **Complete Backup** in the backup menu.

- 4 Enter a description for the backup regarding the current computer status in the Description field so that you can easily recognize it later, and specify the Save Path. If your computer has a DVD-Writer, you can specify the DVD drive as the Save Path.



**Select Drive D.**  
**Select the DVD drive.**

- 5 If you click the **Next** button, the system restarts in restoration mode and the **Complete Backup** begins. If you have selected the DVD drive as the Save Path, the “Enter a blank DVD” message appears. Insert a blank DVD and click the **OK** button.



Samsung Recovery Solution supports DVD+R, DVD-R, DVD+RW, and DVD-RW, but does not support CD-R, CD-RW, DVD-RAM, DVD-DL (Dual Layer), HD-DVD, and Blu-Ray.

**6** The Complete Backup begins. If multiple DVDs are required, the expected number of DVDs is displayed in the progress screen. Whenever burning a DVD is completed, the “Insert the next DVD” message will appear. Continue the backup according to the instructions.

**7** When the ‘Restart the System’ message appears after the backup is complete, click **OK** to restart the system.

## ● Complete Restore

### **1** – When backing up onto DVD

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

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

### – When backing up to another drive

Proceed to Step 2.

**2** Click **Start > All Programs > Samsung > Samsung Recovery Solution > Samsung Recovery Solution**.



When you cannot start Windows, turn the computer on and press the F4 key in the boot screen to enter restoration mode.

**3** When the initial menu screen appears, click **Restore** and then click **Complete Restore**.

**4** Select a **Complete Backup** restoration point in the restoration point selection screen and click the **Next** button. The system is restarted.

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



If multiple DVDs have been used for a Complete Backup, whenever burning a DVD is completed, the “Insert the next DVD” message will appear.

**6** When the ‘Restart the System’ message appears after the restoration is complete, click **OK** to restart the system. The Complete Restore has been completed.

## User Data Backup/Restore

---

**Data Backup** enables you to save specific files or folders onto another drive or DVD. **Data Restore** enables you to restore data using the data saved by a Data Backup when data is lost. This guide describes the Backup and Restore procedures on the basis of backing up and restoring by using DVD.

### ● Data Backup

- 1 Click **Start > All Programs > Samsung > Samsung Recovery Solution > Samsung Recovery Solution**.



When you cannot start Windows, turn the computer on and press the F4 key in the boot screen to enter restoration mode.

- 2 When the initial menu screen appears, click **Backup** and then click **Data Backup**.

- 3 In the data selection screen, select either **Basic Selection** or **Select from all**, select a folder or file to be backed up, and then click the **Next** button.

- 4 Enter a description for the backup in the **Description** field so that you can easily recognize it later and specify the **Save Path**. If your computer has a DVD-Writer, you can specify the DVD drive as the Save Path.



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

- 5 If you click the **Next** button, the Data Backup begins. If you have selected the DVD drive as the Save Path, the “Enter a blank DVD” message appears. Insert a blank DVD and click the **OK** button.

- 6 The “Backup is completed” message appears.

## ● Data Restore

### 1 – When backing up onto DVD

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

### – When backing up to another drive

Proceed to Step 2.

### 2 Click **Start > All Programs > Samsung > Samsung Recovery Solution > Samsung Recovery Solution.**



When you cannot start Windows, turn the computer on and press the F4 key in the boot screen to enter restoration mode.

### 3 When the initial menu screen appears, click **Restore** and then click **Data Restore.**

### 4 Select a backup item to be restored in the backup list and click the **Next** button.

### 5 Select a folder for the restoration and click the **Next** button. Data Restore begins.


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

## Q & A

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

### Display Related

**Q** The LCD screen is too dark or too bright.

**A** Adjust the LCD brightness.  
Press the **Wheel button** to run the **MENU** program and click  of **Brightness**.

**Q** 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.

**Q** 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 Scheme.**

**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.

**Q** I have pressed the Wheel button after connecting the Organizer and changed the output to both the LED and the projector in the MENU program, but the screen is not displayed properly.

---

**A** Press the **Wheel button** to run the **MENU** program and select **LCD+CRT Clone** in **LCD/CRT**.

The screen may not be displayed or only part of the screen may be displayed when the LCD resolution is too low or too wide and the projector cannot support the resolution. Right-click over the Desktop, select **Properties**, select the **Settings** tab and change the Resolution to 800x600.

**Q** I have connected a monitor (or projector) to the computer, but the colors on the monitor are abnormally displayed.

---

**A** Check if the monitor and computer are properly connected with the signal cable and reconnect the cable if necessary.

**Q** The picture on the screen trembles.

---

**A** The picture on the screen may tremble when you view some Internet pages or play some on-line games. In this case, using an external monitor is recommended.

**Q** I've run the Rotation function from the Menu, and the pointer on the screen does not correspond to the pointer position.

---


**A** It is recommended using an external USB mouse when the screen is pivoted.

If the above problem appears, complete the following steps.


- ① Right-click on the **eGalax Touch**  icon from the Taskbar and confirm that the **Display Pivot Support** function is **selected** (V). If it is not selected, select it by selecting the **Display Pivot Function**.  
If you cannot find the TouchKit icon on the Taskbar, click **Start > All Programs > eGalax Touch > TouchMon**.
- ② Click on **Start > All Programs > eGalax Touch > Configure Utility** and click on **4-Point Calibration** from the **Tools** tab. If the Stylus Pen Calibration screen appears, proceed according to the instructions on the screen.



## Organizer Related

**Q** When I connect an external display and change the settings to display the screen image on both the LCD and the external display by pressing the **Fn + ** key combination, the screen is not displayed properly.

---

**A** Press **Fn + ** key combination again. If the screen is still not displayed or only part of the screen is displayed by doing this, that means the LCD resolution is too low or too wide and the external display support the resolution. Right-click over the Desktop, select Properties, select the Settings tab and change the resolution to 800 x 600.

**Q** The Taskbar on the bottom of the screen does not appear when a projector is used as the display device.

---

**A** This may happen, if the projector does not support LCD resolution. In this case change the resolution to 800 x 600 (recommended) on your computer.

**Q** The shortcut icons are not displayed on the screen even if I press the shortcut key.

---

**A** The shortcut icons only appear when the Easy Display Manager program is installed.

**Q** The color is strange when the picture is displayed on the connected monitor (or projector).

---

**A** Check the monitor signal cable connection and reconnect the cable.

## Sound Related

**Q** How can I configure the Recording Mixer while I am video or audio chatting?

### A1 Playback Mixer Settings

- 1 Double-click the **volume** icon from the Taskbar and select **Options > Properties** from the menu.
- 2 In the Mixer device field, select **Realtek HD Audio Input**.
- 3 Select **Mic Volume**.

### A2 Realtek HD Sound Effect Manager Settings

- 1 Click **Start > Control Panel > Sounds, Speech, and Audio Devices > Realtek HD Sound Effect Manager**.
- 2 Click **Microphone** tab.
- 3 Select **Noise Suppression** and **Acoustic Echo Cancellation** and Click **OK**.

Using **Acoustic Echo Cancellation** option keeps the Microphone Volume muted in the Playback Mixer.

**Q** How can I configure the Recording Mixer while broadcasting music in WinAMP?

### A1 Playback Mixer Settings

- 1 Double-click the **Volume** icon in the Taskbar and click on **Options**.
- 2 In the Mixer device field, select **Realtek HD Audio Input**.
- 3 Select **Stereo Mix**.

### A2 Realtek HD Sound Effect Manager Settings

- 1 Click **Start > Control Panel > Sounds, Speech, and Audio Devices > Realtek HD Sound Effect Manager**.
- 2 Click **Microphone** tab.
- 3 Unselect **Noise Suppression** and **Acoustic Echo Cancellation** and Click **OK**.

## Wireless Network (WLAN) Related

**Q** I cannot find an AP.

- **Check the Wireless LAN LED.**

**A** Check if the Wireless LAN LED is on. If it is turned off, press the **Wheel button** to run the **MENU button** and set **Wireless LAN** to **On**. The wireless LAN is turned on.

- **Reinstall the driver.**

**A** Reinstall the driver using the software media.

- **Check the Wireless Zero Configuration (WZC) service.**

**A** If the “Windows cannot make this wireless connection” message appears while searching for wireless networks, it indicates that a program other than Windows is set to manage the wireless LAN settings.

- **To use the wireless LAN settings using Windows:**

**A** ① Click **Start > Control Panel > Network and Internet Connections > Network Connections > Wireless LAN Connection**, right-click and check if the “Windows manages wireless network settings (W)” option is selected in the **Wireless Network** tab of the **Properties** window. If not, select the option.

② Click **Start > Control Panel > Performance and Maintenance > Administrative Tools > Computer Management** and click **Services and Applications > Services**. In the right pane, double-click **Wireless Zero Configuration** and check if the Startup Type is Automatic and the Status is Started.

**Q** I cannot connect to an AP.  
(The wireless connection is disconnected frequently.)

---

- **Check the Network Key.**
- A** Right-click the **Wireless Network Connections** icon from the **Taskbar** and click **View available wireless networks**. If wireless networks are found, it indicates that the device is operating properly but the network settings may have a problem. Please check the **Network Key** (Encryption Key) and the **AP settings**.
- **Check if there is a device nearby using the same frequency band.**
- A1** If there is a device nearby using the same frequency band such as another wireless LAN device, wireless video transceiver, microwave oven, plasma bulb, etc., channel interference may occur. If you experience interference from another device, it is recommended changing the AP channel.
- A2** When operating in IEEE802.11g mode, if there is a IEEE802.11b device operating nearby, you may experience low data rates or even disconnection as it operates in Hybrid mode.

- **Check the authentication type.**
- A** A connection may be disconnected after a period of time if the “Use IEEE 802.1x network authentication” option is selected when IEEE 802.1x authentication is not being used. View the properties of the corresponding AP in the Wireless Network Properties. In the Authentication tab, unselect the “Use IEEE 802.1x authentication in this network” option. For detailed information on the authentication server, ask your network administrator.
- **Check the AP settings.**
- A1** Check if the surroundings are appropriate for a wireless LAN. A wireless LAN connection may be limited by the surrounding environment and distance. Obstacles such as walls and door mats affect the quality of the wireless LAN signal. You have to install an AP in a high, open position far away from any other radio signal sources.

If the AP is excessively far away, or is installed at the end of a building and you are attempting to use the wireless LAN from the other end, you may not be able to use the wireless communication normally because the signal is blocked by obstacles between you and the AP (such as a wall).

- A2** Check if the AP operates properly. If the AP is not operating properly, turn it off and on again and try again.
- A3** Check if the AP firmware is the latest version. (For more information on the AP firmware, ask the AP manufacturer or your product provider.)
- A4** Check if the AP is properly connected to the network. Connect the LAN cable from the AP to a computer and check if the network is connected properly.
- A5** Check the **Network Key** (Encryption Key) settings again. If the automatic password converting function (passphrase function) is enabled and the wireless connection is normal but you cannot send data over the connection, please enter the **Network Key** (Encryption Key) manually.

**A6** Check the AP settings as follows.

If there are multiple APs running at the same time, check the channel setting of each AP. If the interval between the channels of the APs is narrow, you may experience electromagnetic interference. Set the channel numbers of the APs so that the intervals between the channels are maximized. (for example, Ch1, Ch5, Ch9, Ch13) computer.

It is recommended unselecting the Hide option of the AP. SSID (Service Set ID) is a name used to distinguish a wireless LAN from other wireless LANs.

It is recommended using Long Preamble. Preamble is a signal for data transmission synchronization. Although some APs support Short Preamble, there might be a compatibility problem.

Because “Fixed” channel selection is more stable than ‘Auto’ channel selection, “Fixed” channel selection is recommended. It is recommended not using the “Block Any” and “Any Connection Block” functions. Although these functions block connections at the client side when the network name is **Any** or **Blank**, it may cause a compatibility problem.


For more information on the AP settings, see the owner's manual supplied with the AP.


**Q Although a connection has been established, I cannot connect to the Internet.**

---

● **Check the TCP/IP settings.**

**A** If you cannot connect to the Internet but you are connected to an AP, check if the TCP/IP settings are configured properly.

When you are not connected to an AP, an **X** mark appears over the 'Wireless Network Connections' icon  in the Taskbar. If you double-click the icon, the Search for Wireless Connections window appears. Reconnect to a wireless network referring to the descriptions of **Connecting to a Wireless LAN** in the Using the Network section.

When you are connected to an AP, an X mark appears over the "Wireless Network Connections" icon  in the Taskbar. Double-click the icon and check if the IP address is properly allocated on the Support tab. If the IP address is not properly allocated, the IP address will be displayed as follows; (for example, 169.254.xxx.xxx).

If your network does not support DHCP, you have to manually configure an IP address by asking your network administrator.

In addition, even if your network supports DHCP, the Internet connection may not be available if the DHCP server fails to allocate an IP address to your computer.

**Q I have configured both wired and wireless connections with the same IP address, but the network connections do not work properly.**

---

**A** You cannot use the same IP address for wired and wireless connections. To use only one IP address for both wired and wireless connections, you must disable one of them according to your requirements in Network Connections in the Control Panel.

**Q** I cannot share Internet access/  
files when a small office network  
has been set up.

---

**A** Check the McAfee SecurityCenter  
settings.

Launch McAfee SecurityCenter  
and select **Advanced > Settings >  
Internet and Network > Advanced >  
Trusted or Prohibited IP.**

Check if the IP address you wish to  
use has already been added. If the  
IP address is not added, add it by  
clicking the **'Add'** button.

## Bluetooth

### **Q** The Korean or Chinese characters in a business card received via Bluetooth are broken.

**A1** If you send a business card including Korean or Chinese characters by selecting a **Select a business card in the file (\*.vcf, \*.vcd)** option, the characters on the received card will be broken.

This is because the contents of the business card file are not set to Korean or Chinese characters (CHARSET). To resolve this problem, edit the contents of the business card file manually as follows.

- ❶ Right-click over a business card file (\*.vcf, \*.vcd) to be sent and select **Connect Program > Select Program**.
- ❷ Select **Notepad** from the program list.
- ❸ Edit the file as follows.  
Example) "N:Magic Sens" =>  
"N;CHARSET=KS\_C\_5601:Magic Sens"  
For Korean, add "CHARSET=KS\_C\_5601"  
For Chinese Simplified (CHS), add "CHARSET=gb2312"

For Chinese Traditional (CHT), add "CHARSET=Big5"

**A2** Perform Send business card immediately in the Address Book of Microsoft Outlook or select Transmission by **Outlook business card selection**, and you will be able to transmit a business card without broken characters and without editing the VCF file.

### **Q** When no headset is found or cannot be connected.

- A1** If the headset is already connected to another device, you will not be able to find the headset and cannot connect to the headset even if the headset is found. Disconnect the connection to the other device and then start the search again.
- A2** If the headset is connected to a power adapter, you cannot make a Bluetooth connection. Disconnect the power adapter and then retry.
- A3** In general, a Bluetooth headset has 2 operating modes, On/Off mode and Pairing mode.



To connect the headset to another Bluetooth device such as a PC or cell phone, the headset must be in Pairing mode.

Switch the headset to Pairing mode and then retry the search operation.

In general, the headset in Pairing mode automatically returns to On/Off mode after a certain period of time.

## **Q** There is no sound or sound is intermittently interrupted after connecting a headset.

---

**A1** If a Bluetooth headset is connected to a PC, the **Sound playback device** in the **Control Panel** is to be changed to **Bluetooth Audio** (for a mono headset) or **High Quality Bluetooth Audio** (for a stereo headset). If the **Sound playback device** in the **Control Panel** is not changed properly, there may be no sound through the headset. Check the audio settings of the **Control Panel** according to the procedures given below.

### **Configuring the Audio Device in the Control Panel**

- 1** Click **Start > Control Panel** and double-click on **Sound and Audio Devices**.
  - 2** Select the **Audio** tab in the Sound and Audio Devices Properties window.
  - 3** Check if the Sound playback device and the Sound recording device are set to Bluetooth Audio (for a mono headset) or High Quality Bluetooth Audio (for a stereo headset).
- A2** Check if the headset is properly connected and working properly.
- A3** Check the volume level of the headset and PC.
- A4** When running a multimedia program such as Windows Media Player that accesses the audio device, a headset may not be properly connected or used. To resolve this problem, exit the multimedia program, connect the headset and then launch the multimedia program again.

## Game and Program Related

**Q** A 3D game does not work, or some functions are not working.

**A** Change the graphics settings of the game to '2D' or 'Software Renderer', then run the program again.

**Q** Running speed of a game is too slow or fast.

**A** Change the setting of the Power Schemes to '**Always On**'.  
(Click the **Start > Control Panel > Performance and Maintenance > Power Options > Power Schemes** tab, then configure the Power schemes field to 'Always On'.)

**Q** 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.

**Q** The game 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.

## Samsung Recovery Solution

**Q** After performing a User Backup, the 'Insufficient free space in the hard disk drive' message appears.

---

► **This message appears when there is insufficient free space for the User Backup.**

**A** If there is insufficient free space on the hard disk drive, the User Backup file cannot be saved.  
For the User Backup, move or delete some files from the hard disk drive and then try again.

**Q** The hard disk drive capacity is different from the specifications.

---

**A** Since Samsung Recovery Solution is installed on your computer and it reserves approximately 10 GB to save the restoration image, the hard disk drive capacity will be smaller than the actual capacity in My Computer or Windows Explorer. The amount of hard disk drive space used by Samsung Recovery Solution may differ depending on the computer model.

## Other

### Q 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.

### Q The [Power Switch] does 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** If the computer is running on battery power, check the battery charge status.

### Q How can I install the program?

- A** You can additionally purchase and install the following devices for UMPC. (See the **Installing Programs** section of the 'Getting Started Guide'.
- **External USB ODD dedicated to UMPC or Compatible External USB ODD**
  - **External USB HDD**
  - **USB Data Cable**

### Q I have turned the LCD screen off with a portable USB keyboard, but I cannot turn it on again.

- A** When you are using an optional **Portable USB Keyboard Dedicated to UMPC**, if you have turned the **Backlit OFF** (Screen Off) by pressing the <Fn>+<F5> keys, press the <Fn>+<F5> keys on the keyboard again to turn the **Backlit ON** (Screen On).

**Q** I want to replace the pointing stick cap of a portable USB keyboard.


---

**A** A portable USB keyboard has a pointing stick that can be used instead of a mouse. Since a spare pointing stick cap is supplied when you purchase a USB keyboard, you can remove the cap and then insert a new one if necessary.

## Product Specifications

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

<b>CPU</b>	VIA Isaiah Processor (1.2GHz)
<b>Cache Memory</b>	1,024 KB
<b>Main Memory (Optional)</b>	Memory type: DDR2 SODIMM
<b>Main Chipset</b>	VIA VX820
<b>Hard Disk Drive (Optional)</b>	5mmH HDD
<b>Graphics</b>	VIA Chrome9 HC3 IGP
<b>Sound Chipset</b>	HD Audio, ALC272 Codec
<b>Network (Optional)</b>	Wireless LAN: 802.11BG (Optional) Bluetooth 2.0+EDR (Optional)
<b>Multi Card Slot</b>	SD card/ SDHC/ MMC
<b>Ports (Optional)</b>	USB 2.0 x 2, Headphone Jack, DC-in Jack, Organizer Port (Optional)
<b>Dimensions</b>	208.0 x 124.9 x 22.9mm
<b>LCD</b>	7" WSVGA (1024x600)
<b>Battery (Optional)</b>	Lithium-Ion smart battery: 4 Cells
<b>Operating Environment</b>	Temperature (storage) : -5 ~ 40°C (operation) : 10 ~ 32°C Humidity (storage) : 5% ~ 90% (operation) : 20% ~ 80%
<b>Operating Voltage</b>	100 - 240VAC
<b>Frequency</b>	50 / 60Hz
<b>Output Power (Optional)</b>	BT:0.0025W ; WLAN:0.0627W
<b>Output Voltage</b>	4.7VDC 4A (40W) (Optional)

- 
- The weight and dimension listed are approximate values and may vary a bit from the actual product.
  - Optional components may not be provided or different components may be provided depending on the computer model.
  - The system specifications are subject to change without notice.
  - The hard disk drive capacity of a computer in which Samsung Recovery Solution is installed, is represented as smaller than the product specification.

## Wireless LAN Specifications (802.11a/b/g, 802.11n Card)

### Intel 802.11ABG WLAN

- **The Name of the Registered Equipment** : Special Low Power Wireless Device for Wireless Data Communication Systems.

Item		Detailed Specifications
Physical Specifications	Dimensions	30.0 × 50.95mm (Width X Height)
	Operating Temperature And Humidity	Same as System Operations Temperature: Bet. 0°C and 70°C, Humidity: Less than 85%
Power Specifications	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g
	Operating System	Microsoft Windows XP/Vista
	Media Access Protocol (MAC)	CSMA/CA (Collision Avoidance) with Acknowledgement (ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit/128bit WPA*

- \* This device supports the Wireless LAN Security Specifications WPA (Wi-Fi Protected Access) for Wi-Fi.  
To connect to a WPA wireless network, you have to configure the settings according to the network connection environment. For detailed setting information, ask your network administrator.



## ● Radio Specifications

<b>RF Band</b>	2.4GHz, 5GHz
<b>Supported Channels</b>	Channels allowed per country.
<b>Device</b>	Transceiver
<b>Standard Output Power</b>	MAX 10mW
<b>Modulation Scheme</b>	11a mode : OFDM
	11b mode : DSSS
	11g mode : OFDM
<b>Data Rate (Mbps)*</b>	11a mode** : MAX 54Mbps
	11b mode : MAX 11Mbps
	11g mode*** : MAX 54Mbps
<b>Antenna Type</b>	Built-in Antenna

\* The data rate may differ from the real data transmission rate.

\*\* 11a mode is only supported when the device is connected to an IEEE 802.11a device.  
(e.g. Access Point supporting IEEE 802.11a)

\*\*\*11g mode is only supported when the device is connected to an IEEE 802.11g device.  
(e.g. Access Point supporting IEEE 802.11g)

## Intel 802.11AGN WLAN

- **The Name of the Registered Equipment** : Special Low Power Wireless Device for Wireless Data Communication Systems.

Item		Detailed Specifications
Physical Specifications	Dimensions	30.0 × 50.95mm (Width X Height)
	Operating Temperature And Humidity	Same as System Operations Temperature: Bet. 0°C and 70°C, Humidity: Less than 85%
Power Specifications	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
	Operating System	Microsoft Windows XP/Vista
	Media Access Protocol (MAC)	CSMA/CA (Collision Avoidance) with Acknowledgement (ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit/128bit WPA*

- \* This device supports the Wireless LAN Security Specifications WPA (Wi-Fi Protected Access) for Wi-Fi.  
To connect to a WPA wireless network, you have to configure the settings according to the network connection environment. For detailed setting information, ask your network administrator.

## ● Radio Specifications

<b>RF Band</b>	2.4GHz, 5GHz
<b>Supported Channels</b>	Channels allowed per country.
<b>Device</b>	Transceiver
<b>Standard Output Power</b>	MAX 10mW
<b>Modulation Scheme</b>	11a mode : OFDM 11b mode : DSSS 11g mode : OFDM 11n mode : MIMO
<b>Data Rate (Mbps)*</b>	11a mode** : MAX 54Mbps 11b mode : MAX 11Mbps 11g mode*** : MAX 54Mbps 11n mode**** : MAX 450Mbps, MAX 300Mbps
<b>Antenna Type</b>	Built-in Antenna

\* The data rate may differ from the real data transmission rate.

\*\* 11a mode is only supported when the device is connected to an IEEE 802.11a device. (e.g. Access Point supporting IEEE 802.11a)

\*\*\* 11g mode is only supported when the device is connected to an IEEE 802.11g device. (e.g. Access Point supporting IEEE 802.11g)

\*\*\*\* 11n mode is only supported when it is connected to an IEEE802.11n device (e.g. Access Point supporting IEEE802.11n).

## Wireless LAN Specifications (802.11BG Card)

### Intel 802.11BG WLAN

- **The Name of the Registered Equipment** : Special Low Power Wireless Device for Wireless Data Communication Systems.

Item		Detailed Specifications
Physical Specifications	Dimensions	30.0 × 50.95mm (Width X Height)
	Operating Temperature And Humidity	Same as System Operations Temperature: Bet. 0°C and 70°C, Humidity: Less than 85%
Power Specifications	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11b, IEEE 802.11g
	Operating System	Microsoft Windows XP/Vista
	Media Access Protocol (MAC)	CSMA/CA (Collision Avoidance) with Acknowledgement (ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit/128bit WPA*

- \* This device supports the Wireless LAN Security Specifications WPA (Wi-Fi Protected Access) for Wi-Fi.  
To connect to a WPA wireless network, you have to configure the settings according to the network connection environment. For detailed setting information, ask your network administrator.

## ● Radio Specifications

<b>RF Band</b>	2.4GHz
<b>Supported Channels</b>	Channels allowed per country.
<b>Device</b>	Transceiver
<b>Standard Output Power</b>	MAX 10mW
<b>Modulation Scheme</b>	11b mode : DSSS
	11g mode : OFDM
<b>Data Rate (Mbps)*</b>	11b mode : MAX 11Mbps
	11g mode** : MAX 54Mbps
<b>Antenna Type</b>	Built-in Antenna

\* The data rate may differ from the real data transmission rate.

\*\* 11g mode is only supported when the device is connected to an IEEE 802.11g device.  
(e.g. Access Point supporting IEEE 802.11g)

## Marvell 802.11BG WLAN

- **The Name of the Registered Equipment** : Special Low Power Wireless Device for Wireless Data Communication Systems.

Item		Detailed Specifications
Physical Specifications	Dimensions	30.0 × 30mm (Width X Height)
	Operating Temperature And Humidity	Temperature: Between 0°C and 70°C, Maximum Humidity: 85%
Power Specifications	Power	3.3V
Network Specifications	Compatibility	IEEE 802.11b, IEEE 802.11g
	Operating System	Microsoft Windows XP/Vista
	Media Access Protocol (MAC)	CSMA/CA (Collision Avoidance) with Acknowledgement (ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit/128bit WPA*

- \* This device supports the Wireless LAN Security Specifications WPA (Wi-Fi Protected Access) for Wi-Fi.  
To connect to a WPA wireless network, you have to configure the settings according to the network connection environment. For detailed setting information, ask your network administrator.  
This device does not support the Cisco Security Specification - Cisco Compatible eXtension(CCX).

## ● Radio Specifications

<b>RF Band</b>	2.4GHz
<b>Supported Channels</b>	Channels allowed per country.
<b>Device</b>	Transceiver
<b>Standard Output Power</b>	MAX 10mW
<b>Modulation Scheme</b>	11b mode : DSSS
	11g mode : OFDM
<b>Data Rate (Mbps)*</b>	11b mode : MAX 11Mbps
	11g mode** : MAX 54Mbps
<b>Antenna Type</b>	Built-in Antenna

\* The data rate may differ from the real data transmission rate.

\*\* 11g mode is supported only when you are connected to an IEEE 802.11g device (e.g. An Access Point supporting IEEE 802.11g).

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## ENERGY STAR® Partner



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



## Glossary

The Glossary lists the terminologies used in this User Guide. For terminologies other than these, look in Windows Help.

### **Backup**

A way to save the current data to restore it later if necessary. A 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 Data Rate Synchronous Dynamic Random Access Memory)

DRAM is a memory type whose cells consist 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 CPU clock. 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**

An 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 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 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 was developed to replace CD (compact disk). Although the shape and size of the disc are the same as that of 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 (analog) video and supports MPEG2 compression and digital audio. To play a DVD, a DVD drive is required.

**Firewall**

A security system 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 a file that users can use.

**LAN (Local Area Network)**

A communications 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 Vista 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 a TFT LCD. Since an LCD is implemented by transistors instead of a cathode-ray tube unlike a CRT, its size can be slim. And because it does not blink, it reduces eye strain.

**Network**

A group of computers and devices, such as printers and scanners, connected by a communications link. A network can be either small or large and can be connected permanently through cables or temporarily through telephone lines or wireless links. The biggest network is the Internet, a worldwide network.

**Network Administrator**

A user who plans, configures and manages network operations. Sometimes, a network administrator is called a 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 the Windows Desktop with one click. You can add any icon to the quick 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 it.

**Shared Folder**

A folder that can be used by other users on the network.

**Sleep Mode**

A power mode that enables computers to save power consumption when they are not being used. When a computer is in Sleep Mode, the data on the computer memory is not saved to the hard disk. If the power is turned off, the data in memory will be lost.

**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 (480Mbps) faster than 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 a 2nd HDD and CDRW that require a high data rate.

**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, and copy files to a portable device, etc.

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