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## Macrovision Statement

**If your computer has a DVD drive and an analog TV Out port, the following paragraph applies:**

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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# Important Safety Information

## Safety Instructions

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

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

### Setting Up your System

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

## Care During Use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill anything on the system. The best way to avoid spills is to not eat or drink near your system.
- Some products have a replaceable CMOS battery on the system board. There is a danger of explosion if the CMOS battery is replaced incorrectly. Replace the battery with the same or equivalent type recommended by the manufacturer. Dispose of batteries according to the manufacturer's instructions. If the CMOS battery requires replacement insure that a qualified technician performs the task
- When the computer is turned off, a small amount of electrical current still flows through the computer. To avoid electrical shock, always unplug all power cables, remove the battery and modem cables from the wall outlets before cleaning the system.
- Unplug the system from the wall outlet and refer servicing to qualified personnel if:
  - The power cord or plug is damaged.
  - Liquid has been spilled into the system.
  - The system does not operate properly when the operating instructions are followed.
  - The system was dropped or the casing is damaged.
  - The system performance changes.

## Replacement Parts and Accessories

Use only replacement parts and accessories recommended by manufacturer.

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

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

# Battery Disposal

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

Contact the Samsung Helpline for information on how to dispose of batteries that you cannot use or recharge any longer.

Follow all local regulations when disposing of old batteries.

# Federal Communications Commission (FCC)

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

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

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

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet helpful: "Something About Interference." This is available at FCC local regional offices. Our company is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by our company. The correction will be the responsibility of the user. Use only shielded data cables with this system.

**FCC statement for Wireless LAN use:**
"While installing and operating this transmitter and antenna combination the radio frequency exposure limit of 1mW/cm2 may be exceeded at distances close to the antenna installed. Therefore, the user must maintain a minimum distance of 20cm from the antenna at all times. This device can not be colocated with another transmitter and transmitting antenna."

# Federal Communications Commission Part 68 Statement

**Note:**

This equipment compiles with part of the FCC rules. On the back of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number(REN) for this equipment. If requested, this information must be provided to the telephone company.

This equipment uses the following USOC jacks : RJ11C

An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or promises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.

The REN is used to determine the quantity of devices which may be connected to telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs should not exceed five(5.0). To be certain of the number of devices that may be connected to a line, as determined by total RENs, contact the local telephone company to determine the maximum REN for the calling area.

If the terminal equipment causes harm to the telephone network, the Telephone Company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advanced notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment (SENS Modem) for repair or warranty information, please contact your local distributor. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

The user must use the accessories and cables supplied by the manufacturer to get optimum performance from the product.

No repairs may be done by the customer.

This equipment cannot be used on public coin phone service provided by the telephone company. Connection to party line service is subject to state tariffs.

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be any number for which charges exceed local or long-distance transmission charges.)

In order to program this information into your fax machine, refer to your communications software user manual.

## CTR21 Statement

The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

In the event of problems, you should contact your equipment supplier in the first instance.

## Canadian Radio Interference Regulations

This apparatus does not exceed the class B limits for radio noise emissions set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil n’émet pas de bruits radioélectriques dépassant les limites applicable aux appareils de la classe B prescrites par le règlement de brouillage radioélectrique dicté par le Ministère des Communications du Canada.

# Laser Safety

All systems equipped with CD or DVD drives comply with the appropriate safety standards, including IEC 825. The laser devices in these components are classified as “Class 1 Laser Products” under a US Department of Health and Human Services (DHHS) Radiation Performance Standard. Should the unit ever need servicing, contact an authorized service location.

**Laser Safety Note:**
Use of controls or adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure. To prevent exposure to laser beams, do not try to open the enclosure of a CD or DVD drive.

# Power Cord Requirements

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

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

## General Requirements

**The requirements listed below are applicable to all countries:**

- The length of the power cord set must be at least 6.00 feet (1.8m) and a maximum of 9.75 feet (3.0m).
- All power cord sets must be approved by an acceptable accredited agency responsible for evaluation in the country where the power cord set will be used.
- The power cord set must have a minimum current capacity of 7 A and a nominal voltage rating of 125 or 250 volts AC, as required by each country's power system.
- The appliance coupler must meet the mechanical configuration of an EN 60 320/IEC 320 Standard Sheet C13 connector, for mating with appliance inlet on the computer.

# Country-Specific Power Cord Set Requirements

**The requirements listed below are applicable to the specific country listed:**

| Country | Accrediting Agency | Applicable Note Numbers |
|---|---|---|
| Australia | EANSW | **1** |
| Austria | OVE | **1** |
| Belgium | CEBC | **1** |
| Canada | CSA | **2** |
| Denmark | DEMKO | **1** |
| Finland | FIMKO | **1** |
| France | UTE | **1** |
| Germany | VDE | **1** |
| Italy | IMQ | **1** |
| Japan | JIS | **3** |
| The Netherlands | KEMA | **1** |
| Norway | NEMKO | **1** |
| Sweden | SEMKO | **1** |
| Switzerland | SEV | **1** |
| United Kingdom | BSI | **1** |
| United States | UL | **2** |

Notes:

**1.** Flexible cord must be Type HO5VV-F, 2-conductor, 1.0 mm² conductor size. Power cord set fittings (appliance coupler and wall plug) must bear the certification mark of the agency responsible for evaluation in the country where it will be used.

**2.** Flexible cord must be Type SVT or equivalent, No.18 AWG. Wall plug must be a two-pole grounding type.

**3.** Appliance coupler, flexible cord, and wall plug must bear a "T" mark and registration number in accordance with the Japanese Dentori Law. Flexible cord must be Type VCT or VCTF, 2-conductor, 0.75 mm² conductor size. Wall plug must be a two-pole grounding type with a Japanese Industrial Standard C8303 (15 A, 125V) configuration.

# Using Your Documentation

Congratulations on your purchase of a notebook computer with the Windows® 2000 operating system. Whether you are new to using a notebook computer or are an experienced user, this user's manual can help you get the most from your computer.

## Manual Documentation Conventions

### Information Icons

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

**Warning:**
Indicates the possibility of personal injury.

**Caution:**
Warns you of possible damage to equipment or data.

**Note:**
Informs you of special circumstances.

### Keyboard Conventions

Keys that you need to press to perform certain functions are displayed in the manual using a small graphic of the button. For example:

<Ctrl>

indicates the control key (**Ctrl** on the keyboard).

If you need to press two keys at the same time, the key names are shown joined by a plus sign. For example:

<Alt+PgUp>

means that you should press the **Alt** key and hold it and then press the **PgUp** key.

## CD-ROM Device Naming Convention

In many installation programs you will have to get a program from the CD-ROM device. The program installation sequence assumes that the CD is drive d:\, however this is not always the case. The name of the CD-ROM drive is the letter following the letter assigned to your last HDD. For instance, if you have one HDD with two partitions, the HDD is drives C: and D: and the CD-ROM drive is then drive E.

## Touchpad Conventions

You may be asked to click or double-click on items on the display screen. As a general note the touchpad actions act much in the same way as a wheel mouse, any differences are explained fully.

The object that needs to be clicked upon will be displayed in **Bold** text or shown in a small figure such as the **"Start Button"** shown on the right =>

.

*Table 1. Touchpad Click Conventions*

| Action | Process |
|---|---|
| **Click** | Depress the touchpad left button and release |
| **Double-Click** | Quickly click the left touchpad button two times |

**Windows Conventions:**
Almost all "Windows" programs will display the name/function of a button or icon if you place the touchpad pointer on the item you want information about.

# Software User Documentation

Your computer is shipped from the factory with several software programs installed. The software may include its own online or printed documentation. Refer to the documentation or the Help options in the software for more information.

The figures and illustrations in this manual may not be identical to those on your system.

**General Icon Note:**
Some of the Icons used in Windows may be placed on the taskbar by selecting **(ex: Place the volume icon in the taskbar)** in the properties dialog box.

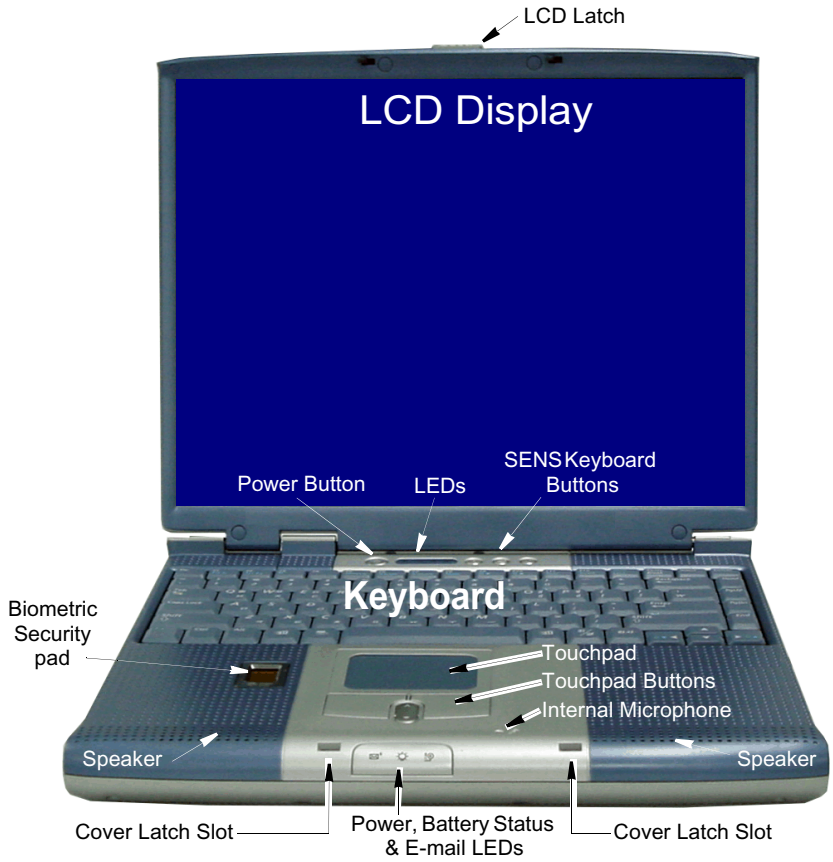
# Introducing Your Computer

Your computer is a lightweight portable computer that includes features such as Dolby Digital & Dolby Theater System support, CD-ROM/floppy drives, Biometric (fingerprint) security system (factory option) and wireless LAN capability (factory option), to meet your computing needs at home or on the road. [Figures may be different depending on options).

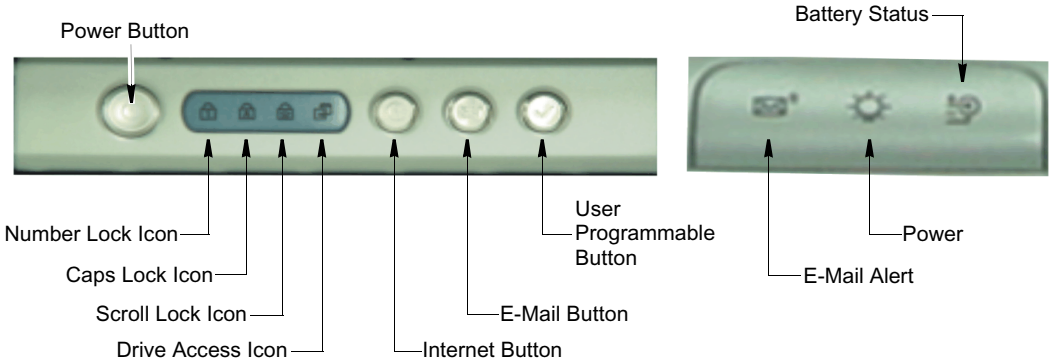
## Where Everything Is

The next 6 figures will explain the location of all of the buttons, LEDs and equipment needed to operate your notebook computer.

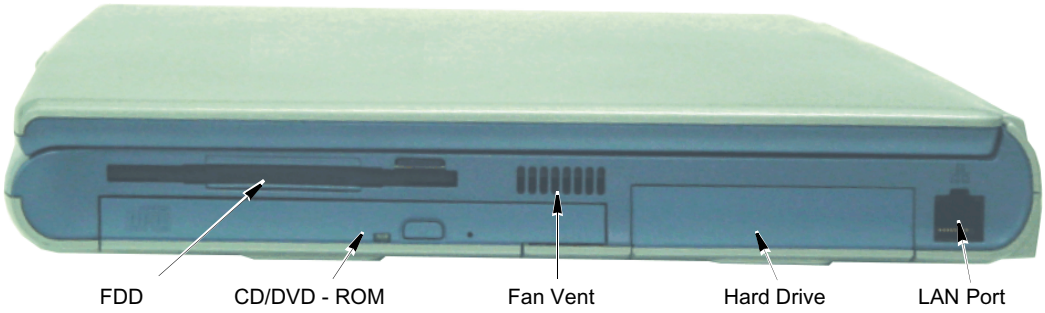
### Front



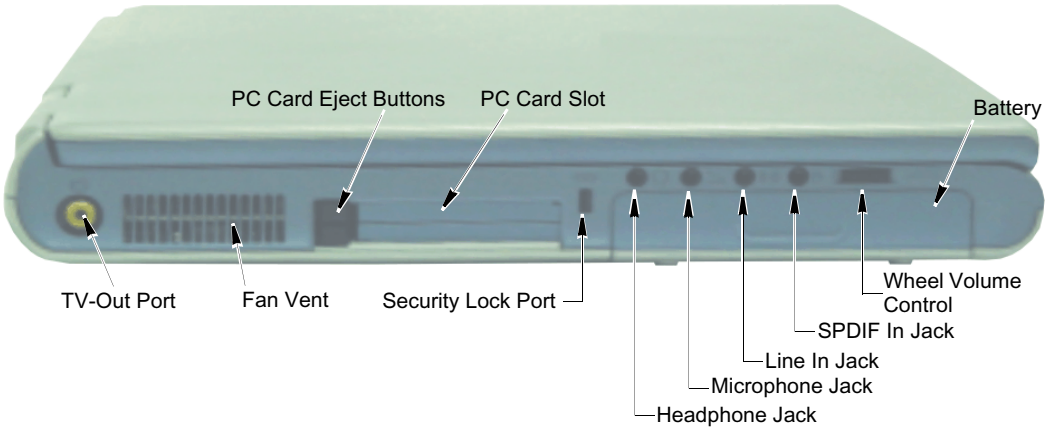
## Buttons and LEDs



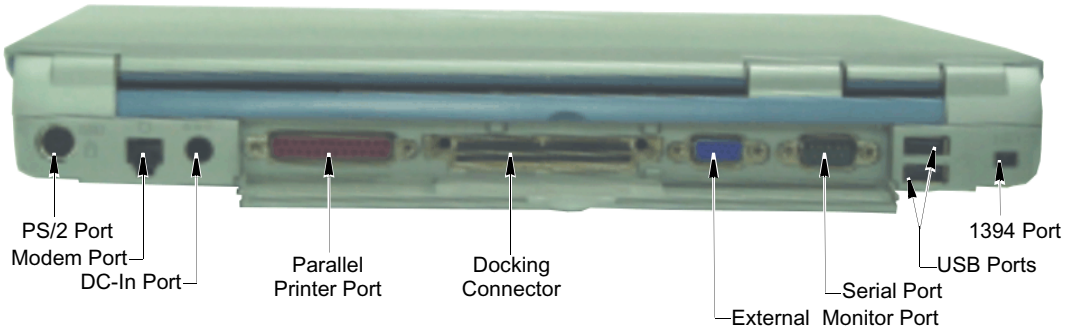

## Right Side



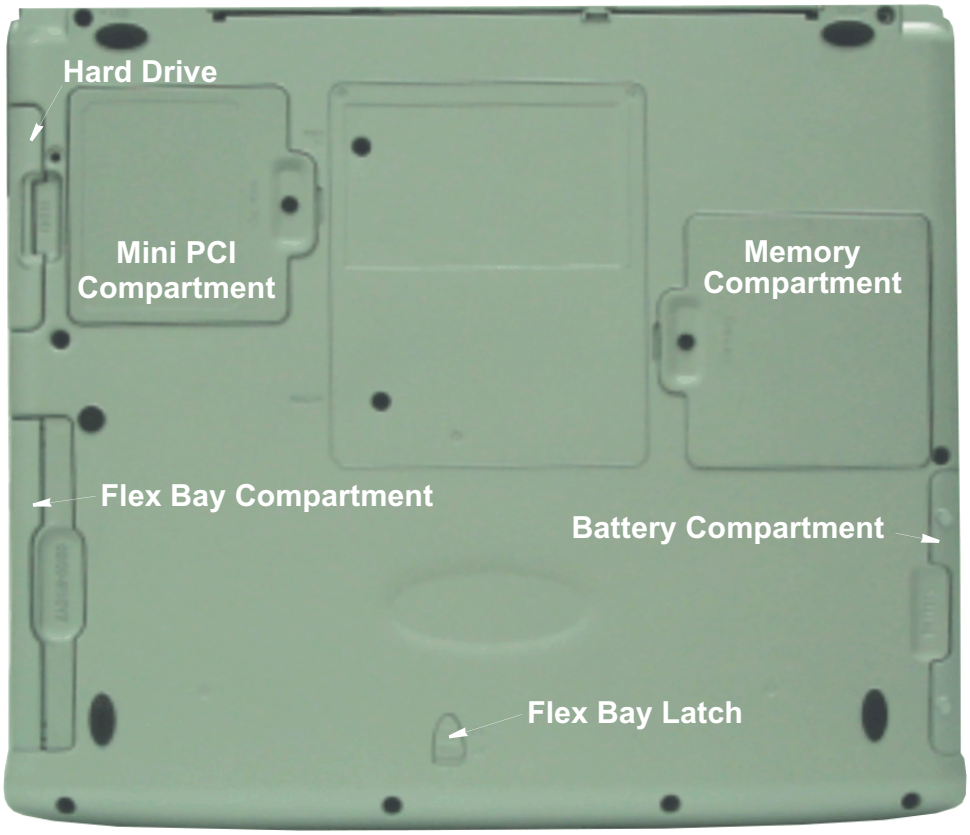

## Left Side



## Back Side




## Bottom



# Using Your Computer for the First Time

This section gives you detailed information on using your computer for the first time.

## Installing the Battery

**To install the battery pack:**

1. With the computer's power off, close the LCD panel and turn the computer over so the bottom of the unit faces up.
2. Slide the battery compartment cover straight up and off the computer. See "Installing the Battery" on page 37.

Insert the battery into the battery compartment, ensuring the correct orientation so that the battery fits in its slot properly.

3. Slide the battery pack into the compartment. Make sure the battery is fully inserted into the compartment.
4. Align the tabs on the battery compartment cover with the slots on the battery compartment.
5. Push the cover straight down until it snaps into place.

## Attaching the AC Adapter

Your computer runs on power from the battery in the computer or from an electrical outlet. The first time that you use your computer, fully charge the battery by attaching the power cord to the computer and to an electrical outlet.

All batteries lose their charge if they sit unused for an extended time period. When not used, battery can discharge fully in 2 to 3 months. The battery may have discharged in the time it took for the computer to go from the factory to you.

**To attach the power cord:**

1. Plug the AC adapter into the power connector on the back side of the computer.
2. Connect the power cord to the AC adapter and then to an electrical outlet.

The battery starts charging as soon as you plug the power cord into an electrical outlet. The battery charges faster if the computer is turned off during charging.

If the battery is fully depleted and the computer is turned off, the battery charges in about 3 hours. If the computer is turned on, the battery charges in about 6 hours. When the battery is charging, the battery charge light is red. When the battery is fully charged, the light turns green.

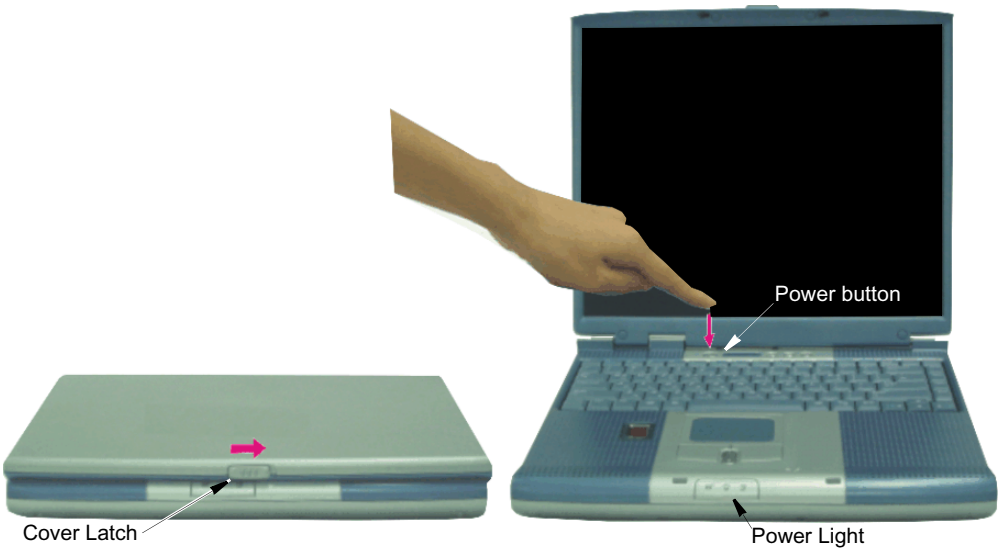
See "Using Power Management Options" on page 46 for more information on using your computer's battery.

## Turning On the Computer

**To turn on the computer's power for the first time:**

1. Slide the LCD latch, located on the front of the cover to the right.
2. Lift up the cover.
3. Press and then release the power button.

   The power light is on when the computer's power is on.



**Initial Computer Startup:**
The first time you start your computer you will see the operating system registration screens. Simply read each screen and follow the simple directions. You must complete this process in order to use your computer. A tutorial is provided if you require it.

## Adjusting the LCD Display

You may wish to adjust the LCD (Liquid-Crystal Display) when you begin using your computer. A TFT (Thin-Film Transistor) LCD does not require adjustment for contrast because the contrast is set to remain at maximum.

**To adjust the LCD:**

- Press <Fn+Right Arrow> to increase the display brightness.
- Press <Fn+Left Arrow> to decrease the display brightness.

# Turning Off Your Computer

Prior to shutting down your computer ensure all of your data and current work are saved. The system will ask if you wish to save any unsaved work, saving your work first will speed the shutdown process.

**To turn off the computer, complete the following steps:**

1. Click Start on the taskbar.

If you need to restart your computer after software (re)installation or because it is not responding select the **Restart** option in step 2 below.

2. Click **Shut Down** to display the shutdown popup window shown below..

3. Select **Shut down**.
4. Click **OK**.

**Power Off:**
If the system does not power off, then press and hold the power button for over 5 seconds. See "Using Power Management Options" on page 46.

**Power Button Functions:**
The power button has several functions other than just turning on and off your computer, see "Using Power Management Options" on page 46.

You can also perform a soft boot by saving your files and pressing <Ctrl+Alt+Del> to pop-up the "Windows Task Manager" window.
Click **Shut Down** > **Restart**.

You can perform a cold boot by pressing the power button for more than 5 seconds to turn the computer off, waiting more than five seconds, and then pressing the power button to turn the computer on. The system may perform some extra checks during the restart.

## Tips for Using Your Computer

The following information helps you avoid potential problems as you use your computer:

Do not try to disassemble your computer. Opening the system chassis voids your warranty. Only an authorised manufacturer service center can replace or add any parts inside the chassis.

- Follow all the instructions and cautions in your computer user documentation.
- The LCD has a polarized surface and can be damaged easily. To prevent damage, avoid touching the screen.
- Use only approved AC adapters, auto adapters, memory modules and other options.
- Because a notebook computer is small and has restricted air flow around components, it is more likely to overheat than a desktop computer. A fan inside your computer runs when needed to help eliminate heat. Make sure the fan vent on the left side of your computer is not blocked when you use the computer. Occasionally check the vents and remove any accumulated dust on the outside.
- Avoid using or storing the computer in extremely hot or cold areas, such as a car on a hot day. Keep the computer away from heaters and out of direct sunlight. Exposure to excessive heat may damage computer components. If you have left your computer in a hot place, let it cool down slowly to room temperature (with the LCD panel open) before using it.
- Do not remove the memory-module compartment door, or try to install a memory module when the computer is on.
  (For information on installing memory modules, see “Installing a Memory Module” on page 58.)
- Set up your computer work area to avoid physical strain. Sit with your back straight and supported by your chair. Adjust your chair or work table so that your arms and wrists can remain in a relaxed position, parallel with the floor. Avoid bending or twisting your wrists as you work. Your hands should “float” slightly above the keyboard. Refer to a book on office ergonomics for more information on setting up your work area.
- Take frequent breaks from working at the computer to rest your eyes and stretch your muscles.
- Remember to save your data files frequently and to make backup copies of your files.

## Travelling with Your Computer

**If you are travelling by air, follow these tips:**

- Take the computer with you as carry-on luggage. Do not check the computer with your baggage.
- Allow the computer and disks to go through the X-ray security devices. Do not hand-carry disks through the walk-through metal detectors, which can cause loss of data.
- Please collect your computer immediately after X-ray scanning, this is a high theft area for portable computers.
- Make sure that the battery is charged or the power cord is easily accessible. You may be required to turn on the computer for airport security personnel.
- Be prepared to turn off the computer during take off and landing.

## Handling Spills

Do not spill anything on your computer. The best way to avoid spills is to avoid eating and drinking around your computer. If you do spill something on your computer, turn off your computer, unplug it immediately, and do the following:

- If you spill liquid on the keyboard, drain as much of the liquid from the keyboard as possible. Be careful not to let the liquid drip onto the LCD panel. Allow the system to dry for several days before trying to use it.
- If you spill liquid on an external keyboard or keypad, unplug it and drain as much of the liquid as possible. Allow the keyboard to sit at room temperature for a full day before trying to use it.

Sweet liquids leave a sticky residue that may jam the keyboard despite your efforts to dry it.

- If you spill liquid on the LCD panel, clean it immediately with a soft cloth and denatured alcohol or a proprietary LCD screen cleaner. Do not use water, window cleaner, acetone, aromatic solvent, or dry, rough towels to clean it.

Some liquids damage the polarized LCD screen. If your screen is damaged, contact your authorized manufacturer's service center for a replacement.

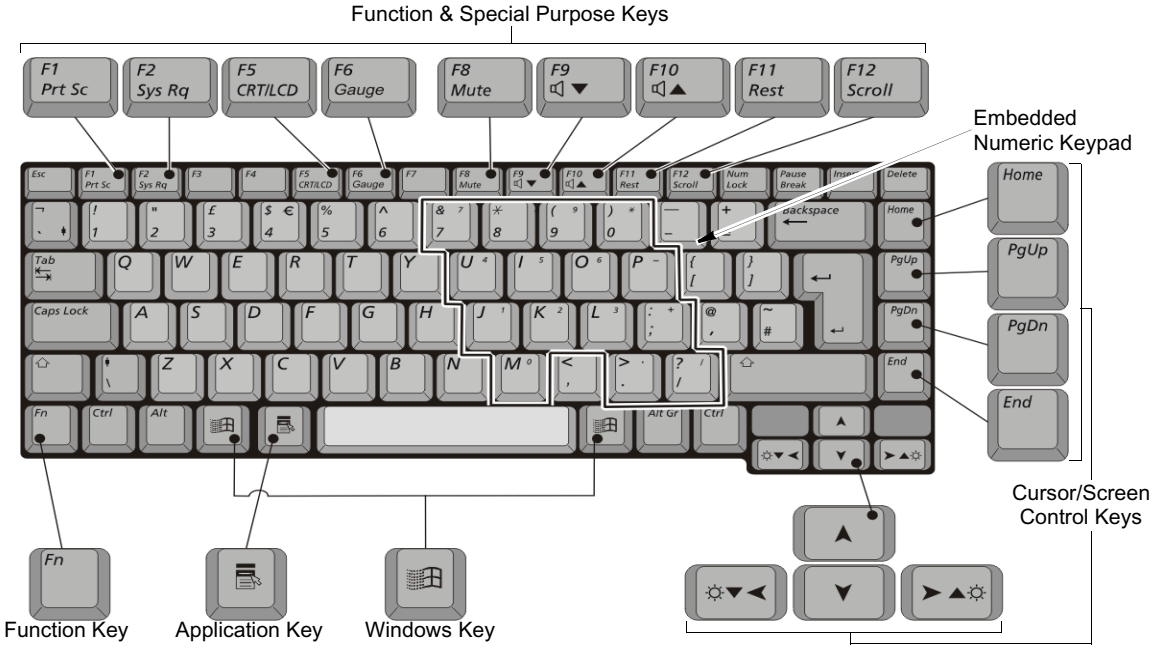
## Storing the Computer for Long Periods

If possible, leave the power cord connected to the computer and an electrical outlet when the computer is not in use. This extends the life of the battery and keeps the battery fully charged.

If you will not be using the computer for a long period of time (a month or more), you should charge the battery until it is completely full. After you have done so, remove the battery from the unit.

# Using the Keyboard

Your computer has an 87/88-key keyboard. By pressing designated key combinations, you can have access to all the key functions of a full-sized keyboard.



Although the layout of the keys on your computer's keyboard is different from that on a desktop computer's keyboard, the keyboard feels like a full-sized keyboard when you use it.

**The keys on the keyboard can be grouped into the following categories:**

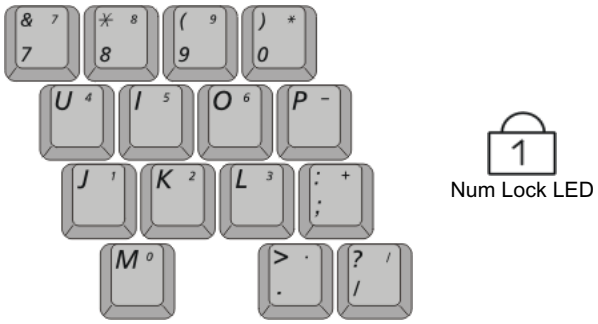
- Full-sized Alphanumeric typewriter keys are arranged like a standard typewriter keyboard and are used for text entry. The Windows keys on either side of the spacebar open Windows menus and perform other special functions.
- Function keys, when pressed together with the <Fn> key, enable special functions.
- Cursor and Screen control keys move the cursor. They may perform other functions, depending on your software.

To clean the computer keyboard, use slightly damp cotton swabs. Scrub the keys and the surface around the keys.

Do not allow liquid to drip into the keyboard or you may damage the keyboard.

## Using the Numeric Keypad

Your keyboard includes a numeric keypad, which is a group of keys that you can set to type numbers and mathematical symbols, such as the plus sign. A number or symbol on the right corner of each keypad key shows its numeric function.




Press <Num Lock> to turn on the embedded numeric keypad. The numeric functions of the keypad are enabled and the Num Lock light turns on.

While the numeric functions are enabled, you can temporarily return a key to its normal function by pressing <Fn> and the key. For example to type the letter *m,* press <Fn+m>.

To turn the numeric keypad off, press <Num Lock> again. The Num Lock light turns off.

# Using Special Function Keys

The <Fn> key activates special functions when it is pressed in combination with another key.

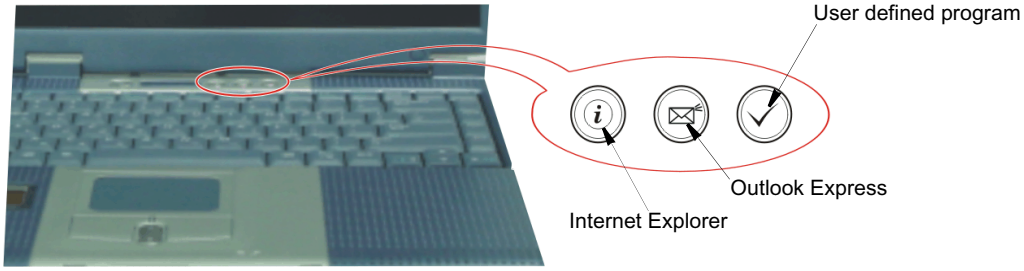
*Table 2. Description of Special Function Keys*

| **<Fn> Key Combination** | **Function** |
|---|---|
| <Fn+F1> | *Print screen:* Takes a picture of the open screen, which you can paste into the Paint program. |
| <Fn+F2> | *System request:* Reserved for use in software programs. |
| <Fn+F5> | *CRT/LCD:* Switches the display between the LCD, the external monitor, and simultaneous display on both the LCD and the external monitor. |
| <Fn+F6> | *Gauge:* Displays the battery gauge in the upper-right corner of your screen. The gauge closes in a few seconds, or you can press <Esc> to close the gauge. (See "Monitoring the Battery Charge" on page 37 for more information on the battery gauge.) |
| <Fn+F8> | *Mute:* Turns the audio output on and off. |
| <Fn+F9> | *Volume down:* Decreases the audio volume. |
| <Fn+F10> | *Volume up:* Increases the audio volume. |
| <Fn+F11> | *Rest:* Puts the computer into Suspend mode. To resume normal operation from rest, press the power button. (See "Using Power Management Options" on page 46 for more information about the rest mode.) |
| <Fn+F12> | *Scroll:* In some applications, sets the cursor-control keys to scroll the page up or down while the cursor position does not change. Pressing <Fn+F12> again turns off the scrolling function. |
| <Fn+Right Arrow> | *Brightness up:* Increases the LCD brightness. |
| <Fn+Left Arrow> | *Brightness down:* Decreases the LCD brightness. |

When you press a function key combination, the system sound may be temporarily muted.

# User Defined Buttons (SENS Keyboard)

You may program the three buttons to the left of the power button to start any program you have installed on your computer.

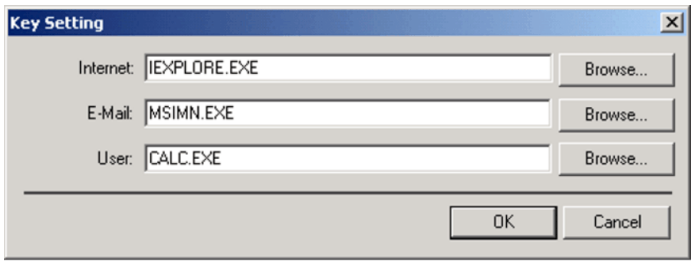



**The default settings for these buttons are:**

Internet  E-Mail - Outlook  Windows Calculator

**To reprogram the Sens Keyboard, follow the steps below:**

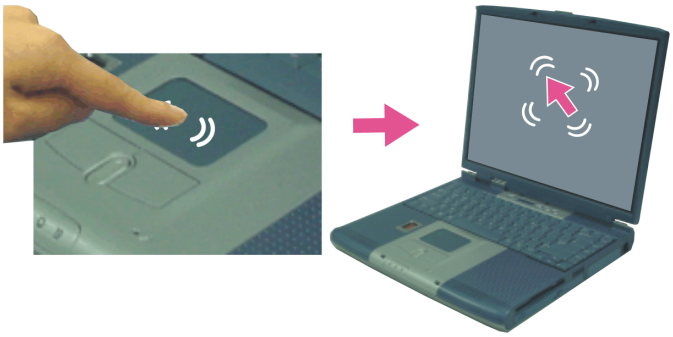
1. Double-Click icon on the Windows taskbar, the **Key Setting** window is displayed.




2. Select **Button** you wish to reprogram from the drop down menus in the **Key Setting** window.
3. Use the **Browse** button to locate the program you wish to assign to the **SENS Keyboard** button selected.
4. Click on your program choice to select it.
5. Click **Open**.
6. Click **OK** to close window and complete programming the **Sens Keyboard**.

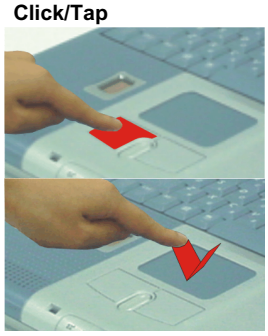
# Using the Touchpad

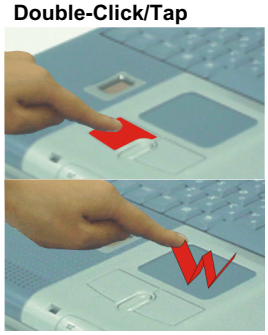
Your computer is equipped with a touchpad, which is an integrated-pointing device that is used to perform standard mouse functions. The touchpad is an advanced and reliable pointing device that works with a touch of your finger.



Press on the touchpad gently. The touchpad responds to light pressure.

*Table 3. Using the Touchpad*

| Action | Process and Comment |
|---|---|
| **Click/Tap**  | **Process**<br>Depress the touchpad left button and release or position the pointer over the object and Quickly tap the touchpad once with your finger. This action is called *clicking*.<br>**Comment**<br>This will cause a process to begin or select an object on the screen. |

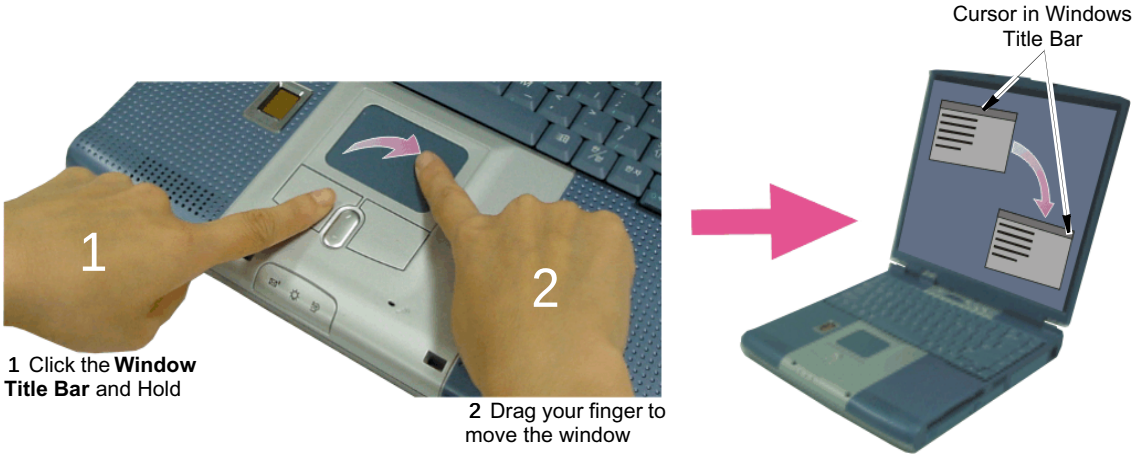
| Action | Process and Comment |
|---|---|
| **Double-Click/Tap**  | **Process**<br>Quickly click the left touchpad button two times or position the pointer over the object and Quickly tap the touchpad twice with your finger. This action is called *Double-clicking*.<br>**Comment**<br>This will cause a process to begin or open a file folder. |
| **Click-Hold** | **Process**<br>Depress the left touchpad button and do not release.<br>**Comment**<br>This is used to move/drag objects to new locations. See "Drag (Move)" on page 19. |
| **Right-Click** | **Process**<br>Position the pointer over the object. Quickly press and release the right button once.<br>This action is called *Right-clicking*.<br>**Comment**<br>This is usually used to obtain information about an object or access a short cut menu. |
| **Scroll up** | **Process**<br>Place your finger on the top half of the button to scroll up the current window.<br>**Comment**<br>Moves the current window down. |
| **Scroll down** | **Process**<br>Place your finger on the bottom half of the button to scroll up the current window.<br>**Comment**<br>Moves the current window up. |

**PS/2 Mouse:**
You may change the setup in **Setup** > **Advanced Menu**
Disabled prevents both the touchpad and external PS/2 port from functioning. Single mouse (default) enables the external PS/2 port or the touchpad, and external PS/2 port has priority. Dual Mouse allows the use of both the touchpad and PS/2 port.

## Drag (Move)

**To move a window on the desktop, complete the following:**

1. Click the **window title bar** or **icon** in the bottom of the window which you want to drag using the touchpad.
2. Press the left touchpad button and hold it.
3. Drag the window using the touchpad.



**Area or Multiple item selection:**
The drag function may be used to select an area or multiple items in an area by clicking in one area and then dragging to create a selection window. The items inside the window will be selected.

# Reading the System Status Lights

System Status lights show the status of computer functions.

*Table 4. System Status Lights*

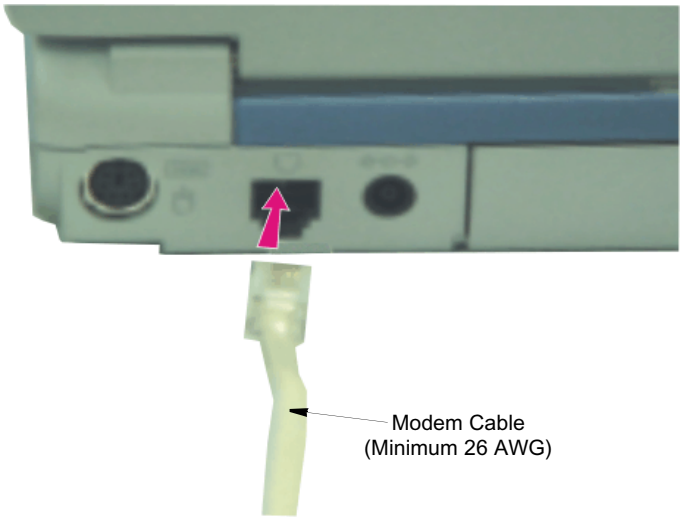
| LED | Name | Function |
|---|---|---|
| | **Num Lock** | Changes a portion of the keyboard to a numeric keypad.<br>See “Using the Numeric Keypad” on page 14. |
| | **Caps Lock** | Changes all alpha or letter input into capital letters.<br>No changes occur to numeric and special keys. |
| | **Scroll Lock** | Scroll lock in certain software. |
| | **Drive Access** | Using the Disk Drives.<br>Blinking Green - HDD is being accessed<br>Blinking Amber - FDD or CD-ROM is being accessed |
| | **E-mail Alert** | The Light comes on when e-mail arrives.<br>To use this function, you must register an E-mail Account in the *Register E-mail Account* window. To register an E-mail account Select: Start > Programs > StartUp > Internet Launcher. |
| | **Power** | Green - System power on.<br>Blinking - Standby mode. |
| | **Battery Status** | Green - No battery pack installed/battery fully charged.<br>Red - Charging. |

# Connecting to the Internet

This section explains how to connect you to the internet. For details on how to establish the connection contact the Internet Service Provider [**ISP**] or system administrator [**SysAdmin**].

## Using the Modem

Install the Modem cable by simply plugging the cable into the slot in the back of the computer.




1. Contact your Internet Service Provider to obtain information or CD required to make the connection in your area.
2. After the cable is connected create a “Dialup” connection by clicking **Start** > **Settings** > **Network and Dial-Up Connections**.
3. Double-Click icon to pop up the connection wizard.
4. Follow the instructions in provided in the **Make New Connection** wizard.

## Precautions Before Use

### *Country Selection*

**Country Selection:**
Because your computer is very mobile you must ensure you select the *country you are calling from* is selected correctly, otherwise you may experience connection problems.

**To change the country selection proceed as follows:**

1. Click **Start** > **Settings > Control Panel**.
2. Click Phone and Modem Options.
3. Click on the connection you wish to edit in the **Locations:** box.
4. Click **Edit**
5. Select the **Country/region** you are calling from in the **General** tab.
6. Click **OK** to close the "Edit Locations" box.
7. Click **OK** to close “Phone and Modem Options” box.

**Digital Phone Lines:**
If you connect the modem to a digital phone line (such as a company 4-wire system), the modem may be damaged.

### *DOS support*

- **Windows 2000:** Does not support pure DOS mode and the modem does not support a DOS box in Windows. So you cannot use a communication application which runs under DOS.

### *Using the Modem on a PBX system*

**If you use a Windows Communication Program:**

1. Click **Start** > **Settings > Control Panel**.
2. Click Phone and Modem Options.
3. Click **Properties** in the **Modems tab** section.
4. Check off “Wait for dial tone before dialing” check box in the **Modem tab** section.
5. Click **OK** to close the dialog box.
6. Click **OK** to close “Modem Properties” dialog box.

**If you use a simple terminal program (i.e. hyper terminal):**

Type the “ATX3&W” or “ATX3” command as an initialization command.

**MODEM Notes:**

1. In order to use the 56K feature, be sure to check if the standards supported by the on-line service provider and the modem are identical.
2. If you use a PBX phone system, you can not connect using the 56K mode.
3. Internationally connected calls will be limited to 33.6K (Max.)

# Using the LAN

You may connect to the network using either a LAN cable or by establishing a wireless connection if factory option is installed..

## Cable Connection

Install the LAN cable by simply plugging the cable into the slot in the right side of the computer.

Your computer’s LAN adapter is ready to use for most situations, however if your system does not have a DHCP server or you wish to personally configure your LAN connection, proceed as outlined in “Configuring Network Environment” below.

**Network Protocols:**
You may need to consult your SysAdmin if their network protocols and settings are required for your LAN environment.

### *Configuring Network Environment*

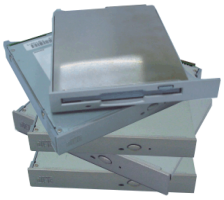
**Configure the Network Adapter as follows:**

1. Click **Start** > **Settings > Control Panel**.
2. Double-Click **Network and Dial-up Connections**.
3. Right Click **Local Area Connection** > **Properties**.
4. Select **Internet Protocol (TCP/IP)** and click properties.
5. Select **Use the following IP Address:** then enter your **IP address**, **Subnet mask** and **Default gateway**. If you use DHCP server, select **Obtain an IP address automatically**.
6. Select **Use the following DNS server address:** and enter the address in the **Preferred DNS server** and **Alternate DNS server**. If you use DHCP server,select **Obtain DNS server address automatically**.
7. Click **OK** when you finish the TCP/IP setup.

## Wireless Connection

If this factory option is installed, see the users manual included with the option to setup and establish your connection. You should also consult your system administrator for any questions you may have.

# Using the Flex-Bay



**The Flex-Bay provides an impressive array of secondary storage devices listed below:**

**CD-ROM drive:**
Shipped with some computers is also an available option.

**CD-ROM R/W drive:**
Shipped with some computers is also an available option.

**DVD-ROM drive:**
Shipped with some computers is also an available option.

**DVD/CD-RW Combo drive:**
Shipped with some computers is also an available option.

**Optional secondary hard drive:**
Available as an option for your computer.

**Superdisk LS-120:**
Available as an option for your computer

**Second Battery:**
Available as an option for your computer.

If your operating system is Windows, you can use the Bay Manager Utility to hot-swap the devices. If you do not use Windows, make sure that the computer's power is off before you remove or install any devices.

## Remove/Install a Flex-Bay Device - Power On

You can use the Softex Bay Manager utility to hot-swap your devices in the flex-bay.

**To start the Softex Bay Manager utility:**

1. Click **Start** > **Settings > Control Panel > Softex Bay Manager**.

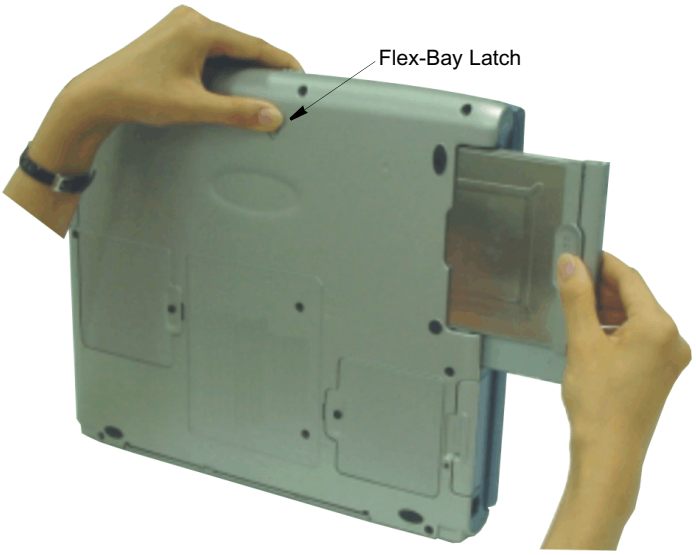
   **- or -**

2. Double-Click the Softex BayManager icon in the windows taskbar.

## To remove a device:

1. Start the *Softex Bay Manager Utility*.

You do not have to turn the computer over or tip it on its side to change devices. Simply tilt the computer up at the front about 10 cm and locate the Flex-Bay latch. See Figure below for the location of the Flex-Bay latch. The computer in the figure is tilted on its side for clarity.




2. Click *Remove / Swap*. A Device Change popup window stating, “Please wait until the system processes the device change” appears then another popup window appears and says, “Please remove or swap your bay device(s) now and press OK.”
3. Tilt the computer up & locate the smart bay latch.
4. Slide and hold the device latch toward the front of the computer.
5. Slide the device out.
6. Click *OK*. The message “Please wait until the system processes the device change” appears again.
7. Click ***OK*** to close the *Softex Bay Manager Utility*.

### To insert a device:

1. Open the *Softex Bay Manager Utility*.

You do not have to turn the computer over to change devices. Simply tilt the computer up and locate the Flex-Bay latch. See "Bottom" on page 5 for the location of the Flex-Bay latch.

2. Click *Device Insert*. A popup window appears stating "Please insert your device(s) into the bay now and click OK."
3. Insert the device.
4. Click ***OK*** to allow your computer to detect the device. The message "Please wait until the system processes the device change" appears.
5. Click ***OK*** to close the *Softex Bay Manager Utility*.

## Remove/Install a Flex-Bay Device - Power Off

### Remove a Device:

1. Turn the computer's power off.
2. Close the LCD panel, and turn the computer over so that the bottom of the unit faces up.
3. Tilt the computer up & locate the smart bay latch.
4. Slide and hold the device latch toward the front of the computer.
5. Slide the device out.

### Install a Device:

1. Turn the computer's power off.
2. Carefully slide the device into the bay.
3. Push the device in until it is flush with the chassis and the Flex-Bay latch snaps into place. Your computer's operating system automatically recognizes the device in the Flex-Bay and configures your computer accordingly when power is restored.

# Using the Disk Drives

## Using the Floppy Disk Drive

Your computer comes with a 1.44 MB, 3.5-inch, floppy drive.

To use a floppy disk in your computer, insert it into the floppy drive.

To remove a floppy disk, press the floppy disk eject button on the front of the floppy drive.

To protect the data on your floppy disks, follow the manufacturers guidelines.

## Using the CD/DVD-ROM Drive

Compact discs are designed so that you can easily insert one into the computer when you need it, and then remove it. See "Using the Flex-Bay" on page 25 for information on installing the DVD-ROM drive into the computer.

**DVD Notes:**
A DVD player is a factory option and if you ordered this option you will have to install the provided DVD software to view the DVD Title.

1. Press the button on the CD-ROM or DVD-ROM drive, and the tray slides out. (Do not lean on the tray; because it will not support much weight.)

**CD/DVD Drive Warnings:**
Do not place reflective objects other than the CD/DVD disks in the disk slot because of possible hazardous laser emissions. The laser beam used in this CD/DVD-ROM drive is harmful to the eyes. Do not attempt to disassemble the CD/DVD-ROM drive. Refer servicing to your authorized service center.

Do not touch the CD/DVD lens, doing so may damage the device.

**CD/DVD Precautions:**
The tray may be stuck, in which case straighten out a paper clip, insert it into the Emergency Eject hole in the front of the CD/DVD-ROM and push it until the tray ejects.

A LED on the drive tray is on when the computer is reading from a CD. Do not remove a disc when this LED is on.

To clean a CD/DVD, wipe from the center outwards with clean and dry cloth.

Remove the CD/DVD when the drive activity LED is off.

2. Insert a CD/DVD, label side up (or remove a disc, if you have finished using it).

3. Push the tray in gently to close the drive tray.

Install and/or start a CD-based program as you would run a program on a floppy disk.

# Working with PC Cards

When you install PC Cards, you can add a multitude of functions to your notebook computer similar to those found on add-in boards for desktop computers. There are many PC Cards on the market, the supported PC Cards are listed below:

- Input/output, such as modem, network, video capture, and SCSI cards.
- Storage, such as hard drive and flash memory cards.

**Your computer includes the following PC Card support:**

- Two PC-Card slots: You can install Type I, II, or III cards in the slots.

**TYPE III Cards:**
Type III cards are thicker than Types I and II. If you install a Type III card in the bottom slot, you cannot install a card in the top slot.

- CardBus hardware and software: CardBus enables the computer to use 32-bit PC Cards. Windows 2000 supports 32-bit and 16-bit PC Cards.
- Zoomed video: Both PC Card slots and the video chip on your computer support zoomed video. When you install a zoom video PC Card in the upper or lower slot, data can be transferred directly from the PC Card to video and audio systems without going through the microprocessor. Video conferencing and real-time multimedia devices, such as video cameras, are supported by zoomed video.

## Maintaining PC Cards

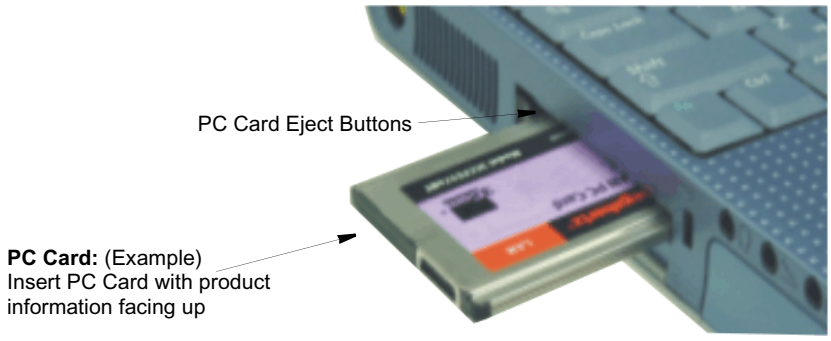
**To maintain your PC Cards, follow these guidelines:**

- Keep cards away from excessive heat, direct sunlight, and liquids.
- Do not drop, bend, flex, or crush cards when handling.
- Keep dust, magnets, and static electricity away from PC Cards.
- When a card is not in use, carry it in its protective carrying case.
- Some PC Cards include cables that extend from the back of the cards. Be careful not to bend or put excessive strain on these cables.

# Using PC Cards

**To insert a PC Card into a slot:**

1. Push the slot door in with the PC Card.
2. Align the card with a slot and insert the card into the slot until it locks in place.



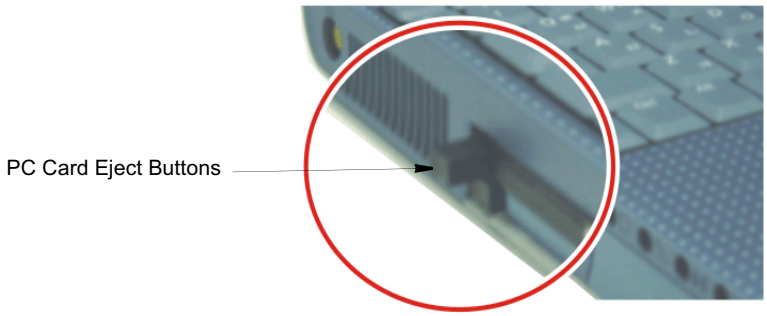

Windows automatically assigns computer resources (such as communication ports and memory addresses) to a PC Card installed in your computer.

**To remove a PC Card from your computer:**

Use the following procedures to remove PC Cards, or you may lose data that is being stored to a card.

1. Click icon on the taskbar.
2. Select the card currently in use, and click the Stop button.

The eject button for the card slot operates in two steps, therefore to remove a PC Card:




3. Push the eject button once to pop it outward then push the eject button again to eject the card.
4. Pull the card out of the PC Card slot.

# Multi Media Functions/Equipment

## Media Player

You can play video and audio CD files with the Windows Media Player, as well as watching TV, video and listening to the radio through internet. The on-board audio hardware and software of your computer enable the computer to play audio/video compact discs. The instructions to play a video CD-ROM are the same as the instructions for the audio CD below. If you wish to do so, you can attach external speakers to the Headphone jack.

### Playing a Audio/Multimedia CD

**To play an CD follow the instructions below:**

1. Insert a compact disc into your CD-ROM drive.
2. Press the button on the CD-ROM drive to open the CD-ROM device.
3. Insert a CD, label side up.
4. Carefully push the tray in to close the drive tray. The Windows Media Player button appears on the taskbar if not already there, and the music begins to play. If the disk does not play click **Start > Programs > Accessories > Entertainment > Windows Media Player**.

**CD LED On:**
A LED on the drive tray is on when the computer is reading from a CD. Do not remove a disc when this LED is on.

### Removing the Audio/Multimedia CD

**To remove the CD follow the instructions below:**

1. Click **Start > Programs > Accessories > Entertainment > Windows Media Player** to open the Windows Media Player window, if not already open.
2. Click **Stop** in the Windows Media Player window or simply close the Windows media player.
3. Press the button on your CD-ROM drive. The drive tray opens and you can remove the CD from the CD-ROM drive.
4. For more information on playing compact discs, see the Help menu in the Windows Media Player window.

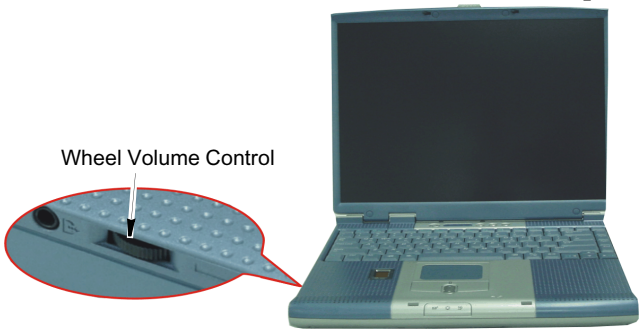
## Dolby Digital & Dolby Theater System

Your computer supports Dolby Digital & Dolby Theater System through a SPDIF connector, located next to the volume control wheel on the left side of the computer. You must have a 3.5 mm (mono)- to RCA cable to use this port.

## Volume Control

### Using the Wheel Volume Control

Simply turn the wheel located on the left side of the computer.




### Using the Keyboard

Changing the volume with your keyboard.

Use <Fn+F9> to decrease the volume or <Fn+F10> to increase the volume.

### Using the Volume Control Icon

Double-Click icon in the active program tray. The **Volume Control** window pops up. Use this window to adjust the volume. You can pop up a simple volume slider by a single click icon.