

MAXDATA



UK User's Manual

[Notebook]



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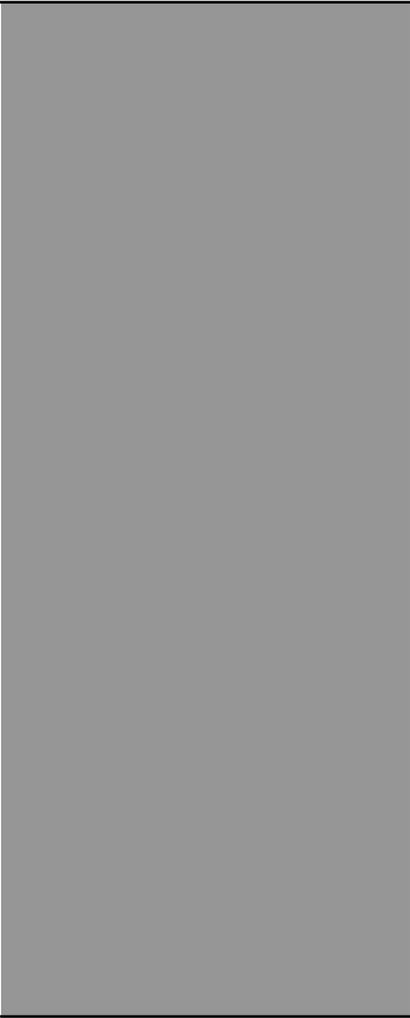






Chapter 1

Getting Started



Getting Started

Congratulations on your purchase of your notebook computer! Your new notebook features the most innovative advances in portable computing technology. It combines state-of-the-art ergonomics with sophisticated architecture to provide you with a personal computer that is compact, powerful, and easy to use. Designed for a wide range of general, business, and personal productivity applications, the notebook is an ideal choice for use in the office, at home, and on the road.

For maximum expandability without compromising portability, this notebook uses a port bar to accommodate most peripheral connections. This allows you to unplug just the port bar when you want to take your computer on the road. The external floppy and CD-ROM / DVD drive directly attaches to the computer. Three USB ports and a PCMCIA slot are also built into the case. The high capacity hard disk drive provides you with plenty of storage space for multimedia files and applications.

The notebook features an 87 key keyboard with four special Internet hot keys for easy access to your favorite browser, search applications, e-mail, and *favorites* folder. The high-resolution 12.1-inch LCD panel provides clear and crisp viewing.

This Manual contains all the information you need to set up and use your new notebook. It describes all the features of the notebook in an easy-to-read yet thorough manner.

Inventory

This computer system is designed for years of productive and pleasurable computing. Use this section to keep details of your purchase. This information will be required should you need to make repairs to your notebook during the warranty period. Update this section when you add new options.

DATE OF PURCHASE: _____

PLACE OF PURCHASE: _____

DEALER'S NAME: _____

DEALER'S ADDRESS: _____

TELEPHONE: _____

E-MAIL ADDRESS/WWW: _____

CONTACT PERSON: _____

MODEL NUMBER: _____

SERIAL NUMBER: _____

BIOS VERSION: _____

The serial number is on the label (with a bar code) on the bottom side of the computer. The BIOS revision number will appear briefly on the screen after turning on the computer, before the graphic BIOS screen appears. Press the Pause key to keep the number on the screen so you can record it.

Safety and Maintenance

You can use your computer under a wide range of environmental conditions. However, to ensure long use and continued high performance, consider the following factors when setting up your computer:

- Follow all warnings and instructions noted in this documentation and in the Windows Help program.
- The first time you use your computer, we recommend that you carefully read the Making Connections section of this manual and initialize the battery to ensure optimum battery performance.
- Unplug the computer from the power outlet before cleaning. Use a damp cloth for cleaning. Do not use aerosols, solvents, or strong detergents.
- Do not use the computer near open water or other liquids. Never spill liquid onto the computer.
- Do not place the computer in an unstable location where it might slip or be knocked over. Serious damage could result from a fall.
- Slots and openings in the system cabinet are for ventilation purposes. Do not block or cover these openings or the system could overheat. Do not use or store the computer near a source of heat or dust.
- On the base or rear panel of this notebook and on the power supply, there is a label with information on the power requirements of this system. These requirements must be followed. If you are unsure of your local power supply, consult your dealer or local Power Company.
- Do not step on or place anything on the power cord.
- If you use the computer with an extension cord, ensure that the total ampere ratings of all the devices sharing the extension do not exceed the rating of the extension cord or the rating of the wall outlet.
- Never push foreign objects into the computer through any of the slots or openings. Dangerous voltages are present, which could cause electric shock or fire, or damage sensitive components.
- For best results, use a power strip with a built-in surge protector. Do not use inferior extension cords as this may result in damage to your computer.
- Set the computer on a flat, stable surface. To prevent damage to the computer's hard disk drive, avoid using the computer where it will be exposed to strong vibration.

Checklists

After opening the package, carefully inspect the contents. If any of the items is missing or appear damaged, contact your dealer. The shipping carton should contain the following:

STANDARD

- A notebook computer with a hard disk drive and 64 MB SDRAM
- An internal battery
- A CD-ROM drive
- A USB FDD disk drive
- An AC adapter with power cord for the notebook
- An AC adapter with power cord for the USB Port Bar
- This User's Manual
- System software CD-ROMs
- EMI ferrite suppression box (for LAN)
- VGA-Adapter
- Modem Cable

OPTIONS

The following items are normally optional, but some vendors may include them in the standard package. Some items may not be available in some countries, or some vendors may choose not to carry all the items.

- 64 or 128 MB SODIMM memory cards
- Spare battery
- Carrying bag
- DVD-ROM drive
- An operating system manual
- A port bar connection device



Caution: When purchasing any of the accessories listed above, purchase only those accessories that are approved for use with your computer. The above accessories are proprietary items. Your system vendor can obtain these approved accessories. If you use items that are not approved for use with this computer, you may cause your computer to malfunction, or to emit or receive electro-magnetic radiation in excess of local regulations. For non-proprietary accessories such as PC cards or printers, ensure that the accessory functions properly in your computer before making the purchase. Your system vendor may be able to recommend reliable brands and models.

Features

High Capacity Hard Disk Drive

The computer has a high capacity hard disk drive, to store your favorite programs and large multimedia files.

Full Array of Ports and Connectors

Your computer includes a port bar with standard ports for connecting to peripherals such as printers. Additional ports allow you to take advantage of the latest in computer technology.

Built-in Modem/LAN Capability

A built-in 56k modem and 10/100 Mbps Ethernet port allows you to access the Internet or a local area network (LAN).

Large LCD

Your computer has an easy-to-view XGA LCD panel.

Built-in Stereo Speakers and Microphone

The stereo speakers and internal microphone enable you to run a variety of multimedia applications.

Convenient Audio Control

The conveniently located audio control buttons enable you to easily adjust the volume to the stereo speakers.

Launch Keys and Function Keys

Four Internet launch keys give you quick access to e-mail and the Internet. Function keys give you easy control of power management, audio, and your monitor.

Where to Look For Information

About Your Computer

This User's Manual describes the key elements of your computer. New users can find a simple step-by-step orientation in the Quick Start section of this chapter.

About Windows

The Windows Manual provides an overview of the Windows operating System. **Windows Online Help**, found on the Start menu, offers extensive Windows assistance. **Welcome to Windows** offers an online orientation for new Windows users. Find it in:

Start/Programs/Accessories/System Tools.

Quick Start

Turning on the Computer for the First Time

1. Connect the AC adapter power cord to the AC adapter.
2. Connect the AC adapter to the DC power port on the right side of your computer.
3. Connect the AC adapter power cord to an AC outlet.
4. Slide the cover latches in the direction of the arrows to open the LCD.
5. Open the LCD panel to a comfortable viewing angle.
6. Press the power button to turn on the power.

Use the touchpad to move the cursor on the screen. Move your finger across the pad to control the cursor, and press the right and left buttons beneath with your thumb. These buttons have the same functions as the right and left buttons of a standard mouse. You can also click or double-click by tapping on the touchpad. The middle button can be used to scroll up and down in documents and Web pages.



Note: The battery is not fully charged. Allow your battery to fully charge before using it (i.e., before disconnecting AC power). Calibrating the battery before use is also highly recommended. Refer to Chapter 5, *Power Management*, for further information.



Note: Using a computer for extended periods of time with a poor workstation setup and incorrect work habits can cause health problems.

Installing Windows 98

The following section is for installing the Windows 98 operating system only. If you are installing a different operating system, please check with your vendor for installation details.

Your computer will begin loading Windows once you turn on the power. Wait a few seconds for Windows setup to load. The Windows setup will prompt you for the product key number, shown to the right:

Note: The product key is on a sticker attached to the bottom of the Notebook.



Product key number

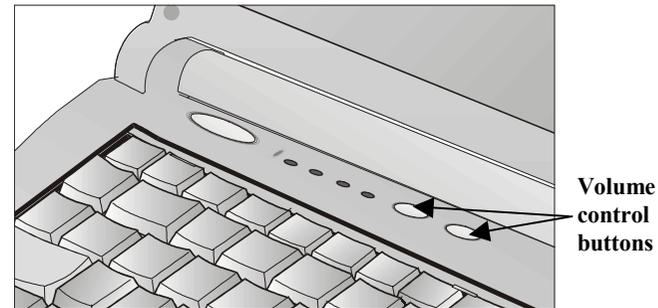
1. Type your name, and, if applicable, the name of your company.
2. Read the End User's License Agreement. Click **Next** to accept it.
3. Enter the product key number. You can find this on the Certificate of Authenticity on a sticker attached to the computer. Click **Finish**.
4. The Start Wizard will prompt you to set the date, and your local time.

After the Start Wizard updates your system settings, the Welcome to Windows screen will appear. You may disable this feature by clearing the check box labeled **show this screen each time Windows starts**.

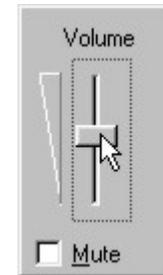
Some software comes preloaded with Windows. New users can familiarize themselves with this software by selecting Programs from the start menu, then clicking on programs to run them.

Adjusting the Volume

You can adjust the volume with the volume control buttons located above the keyboard.



Alternatively, you can adjust the volume with the Windows volume control applet located on the taskbar. 



Adjusting the Brightness

Use the following hot key combinations to adjust the LCD panel brightness:

- Fn + F6 decreases the brightness
- Fn + F7 increases the brightness

Turning off Your Computer

Turning off the computer properly is important to maintaining your computer.

1. On the Start menu, click **Shut Down**.
2. Click the radio button next to **Shut Down** in the Shut Down Windows screen, and then click **OK**.



If you are going to be away from the computer for a short period, there are ways of conserving power without shutting down the system. See Chapter 5, *Power Saving Modes*, for details.



Warning: Shutting off the computer improperly may result in data loss.

Making a Startup Disk

If you have trouble starting Windows, the startup disk can be used to start your computer and fix many problems. Refer to the Windows user manual for instructions.

Tips for New Owners

Take responsibility for backup

Back up files often. Users who need to manage large amounts of data may wish to use backup devices such as a tape backup unit or a ZIP drive. If you use your notebook as a networked workstation with system backup, talk to the system administrator about backup procedures for your notebook.

Don't leave passwords anywhere on your notebook or carrying case

Be careful when placing your notebook on an airport security conveyor belt

In most airports, security conveyor belts are safe for computers. If you are not sure, ask the security staff. You should keep a close eye on your computer. When you are in a hurry, make sure that you walk away with the correct notebook computer!

Tape your business card to the notebook and accessories

In the workplace, notebooks and accessories may often look exactly alike, leading to equipment mix-ups. Prevent such mix-ups by placing your name on your equipment.

Develop ergonomic work habits

The science of ergonomics studies the relationship between health and a suitable work environment. For more information on ergonomics, contact your nearest computer bookstore, or local library. The Internet also has information on this and other related subjects.

Never take the notebook anywhere without the carrying case

A broken screen or case can be costly to repair. Prevent accidents by carrying the computer in a suitable carrying case.

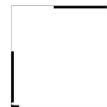
Consider using a lock

For added security, consider purchasing a Kensington lock to put into the Kensington lock hole on the left side of your computer (see Chapter 2, *Left View*). Use the Kensington lock to secure the computer to a desk or table.

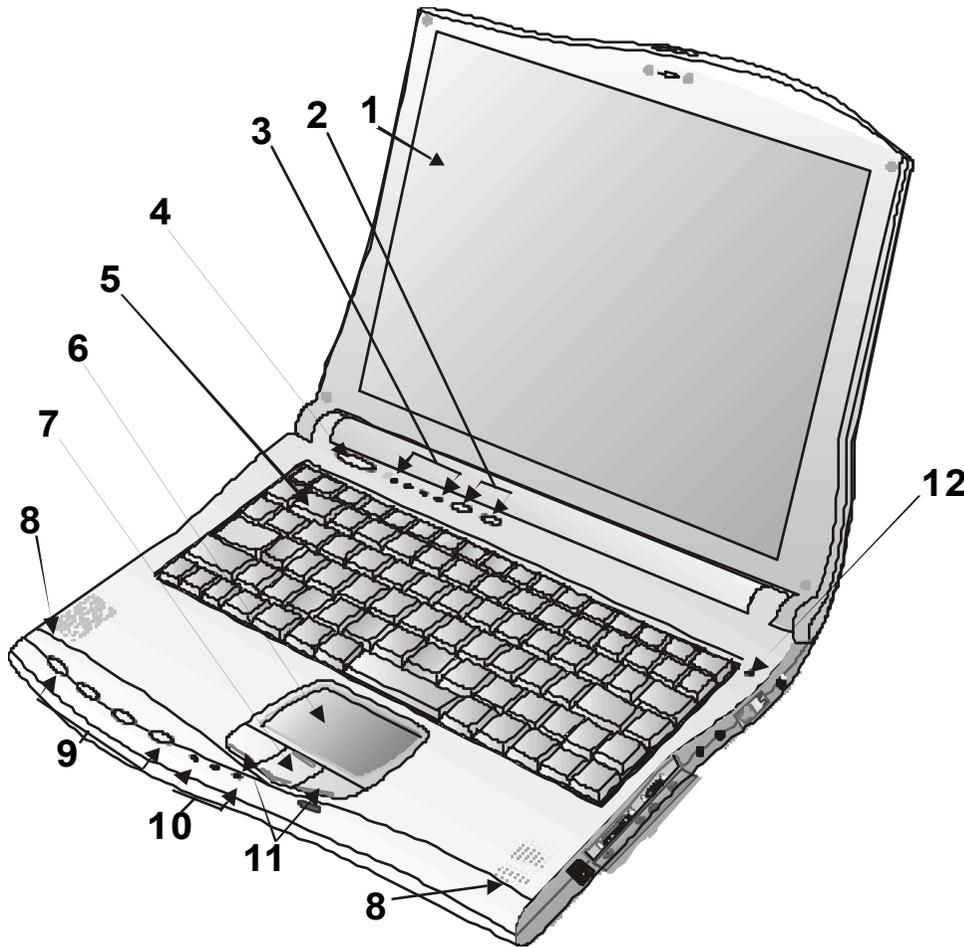


Chapter 2

**Getting Familiar with Your
Computer**

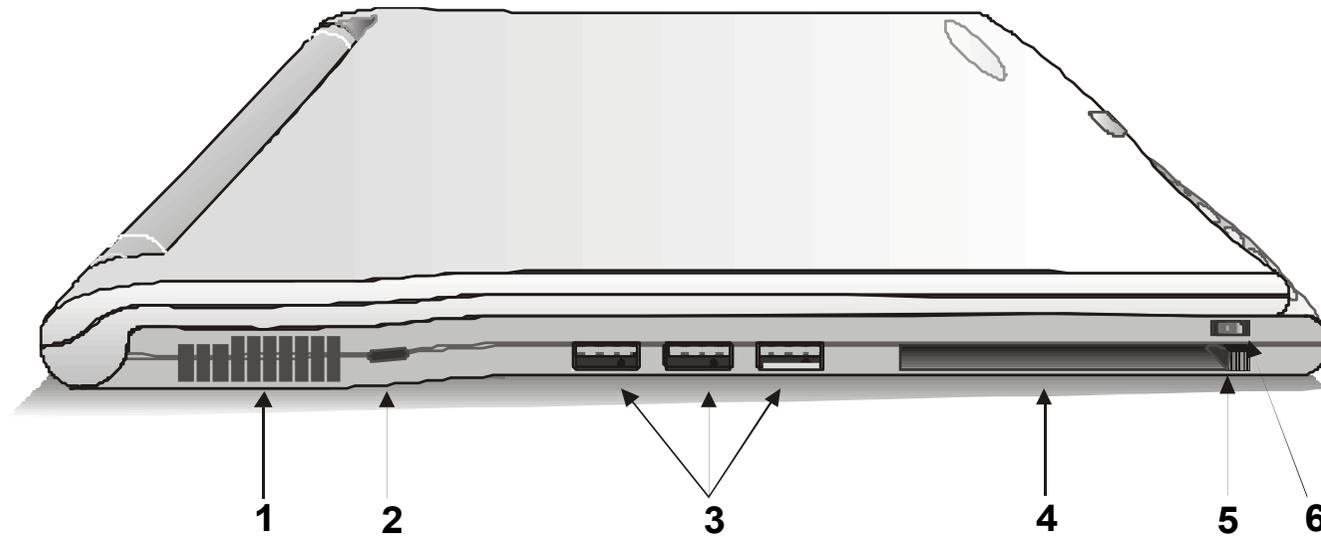


Front View



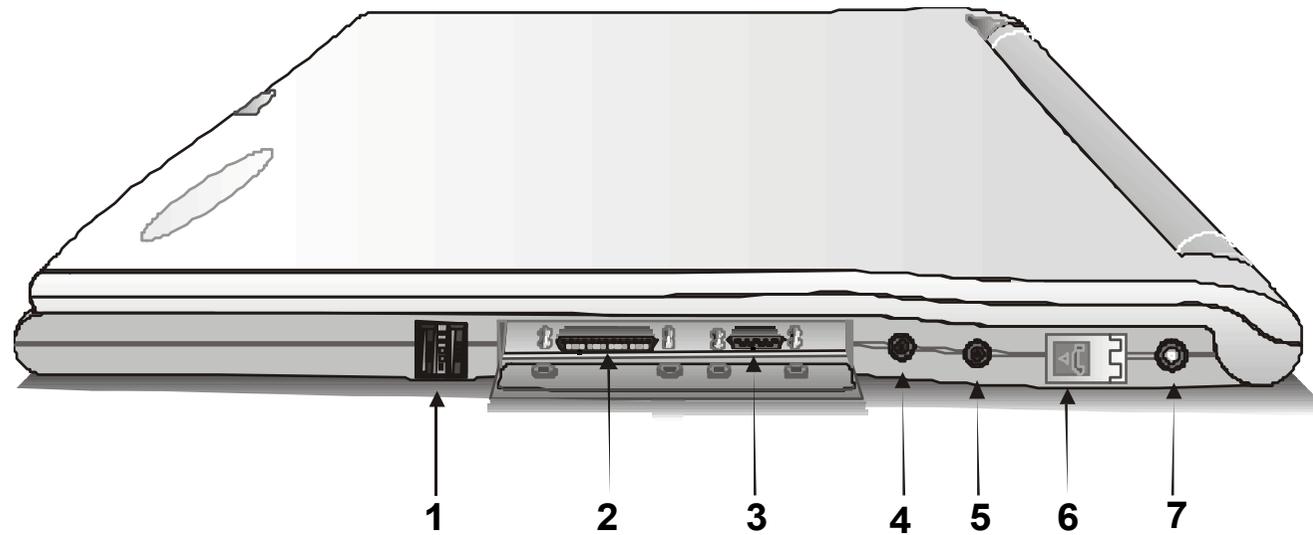
- 1. LCD panel
- 2. Volume control buttons
- 3. Activity indicators
- 4. Power button
- 5. Keyboard
- 6. Touchpad
- 7. Scrolling button
- 8. Speakers
- 9. Quick launch buttons
- 10. Power indicators
- 11. Touchpad buttons
- 12. Microphone

Left View



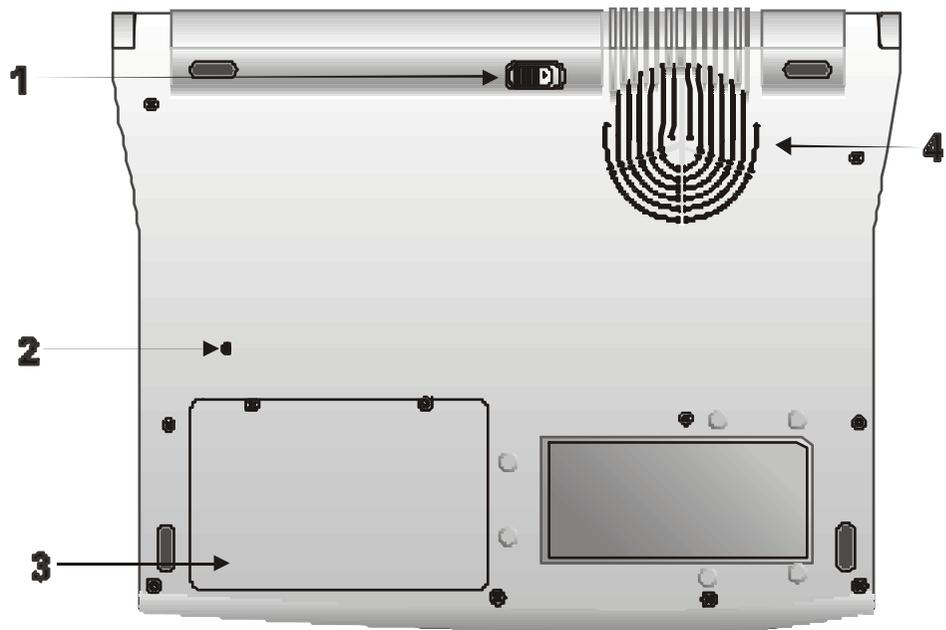
1. Ventilation slots
2. Kensington lock hole
3. USB ports
4. PCMCIA card slot
5. PCMCIA card eject button
6. Quick launch button lock

Right View



1. Ethernet port
2. External IDE port for CD-ROM /DVD drive
3. Mini-VGA port external video display
4. Audio-out jack for external speakers or headphones
5. Microphone-in jack / mono
6. Phone jack for internal modem
7. DC-adapter port

Bottom View



1. Battery release button
2. Reset button
3. Hard disk drive compartment
4. Ventilation slots



Note: Consult your dealer for information on upgrading your hard disk drive.

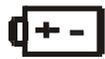
LED Status Indicators

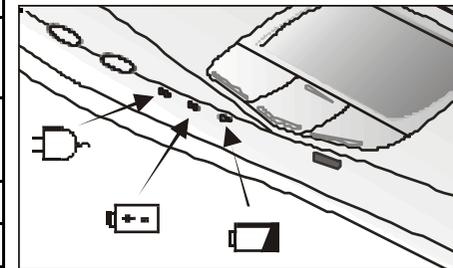
The status indicators above the keyboard and below the touchpad light up when a particular function of the computer is active. Each indicator is marked with a symbol.

Icon	Function	Description
	HDD	The computer is accessing the hard disk.
	Number Lock	The keyboard is in Num Lock mode.
	Caps Lock	The keyboard is in Caps Lock mode.
	Scroll Lock	The keyboard is in Scroll Lock mode.

Power Indicators

The power indicators show which power source the system is using. They also show battery status and low battery power alerts. The power indicators remain active and viewable even when the LCD panel is closed.

Icon	Light	Description
	Green	Power is on and the AC adapter is in use
	Green	Power is on and the battery is in use
	Green	Battery fully charged
	Orange	Battery charging
	Flashing red	Battery power critically low



Function Keys

Hold the Fn key while pressing the numbered function key.

Function key	Description
Fn + F1	Toggles display on/off
Fn + F2	Toggles between LCD/CRT displays
Fn + F3	Suspend to RAM/HDD
Fn + F6	Decreases LCD brightness
Fn + F7	Increases LCD brightness
Fn + F10	Mutes the audio

Quick Launch Buttons

The four Internet launch keys are unique features of your computer. By simply pressing a launch key, you can get on line, perform an Internet search, open a favorite Website, or check e-mail.

Icon	Function
	Instant Internet Access Button: May be used when the computer is turned off. Automatically switches on computer and directly accesses user's Internet Explorer default address (after entering name and password).
	Instant Search Button: May only be used when computer is turned on. Provides direct access to the Microsoft MSN Search Engine. This button's function cannot be changed.
	Favorite Website Button: May only be used when computer is turned on. Automatically accesses sites previously set by user.
	Instant E-mail Button: May be used when computer is off. Automatically switches on computer and accesses user's mailbox upon entering user name and password.



Note: The Quick Launch Buttons will only be operational after you have set up your ISP (Internet Service Provider) account.

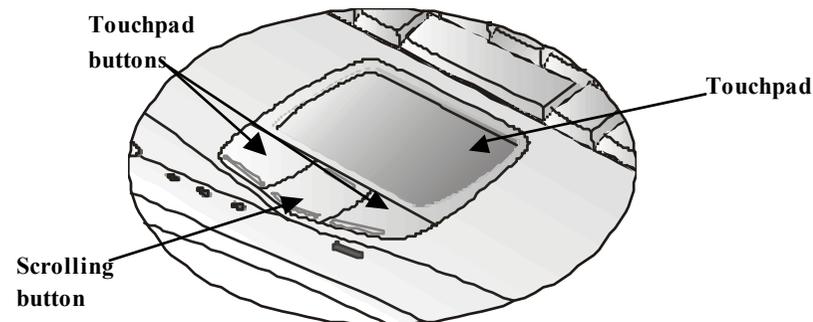
Numeric Keypad

The embedded numeric keypad consists of ten keys that make number intensive input more convenient. Press <NumLock> to enable or disable the numeric keypad.



Touchpad

The touchpad is a pressure sensitive pointing device that provides all the features of a two-button mouse. Its primary function is to move the cursor around the screen.



The instructions listed below describe how to use the touchpad.

1. First, place your fingers on the keyboard in the normal typing position. The touchpad is easily accessible by moving either your left or right thumb off the space bar and on to the touchpad.
2. Gently move your thumb across the pressure-sensitive touchpad in the direction you want the cursor to move. The pad detects the change in pressure and moves the cursor in the corresponding direction.
3. The touchpad offers another method of making selections in a software program. It is called *double-tapping*. This function corresponds to double-clicking with a mouse. Once the cursor has been moved to the object you want to select, *lightly* double-tap the pressure sensitive touchpad. This double-tapping on the touchpad will select the desired item and prompt the software to perform the related operation.
4. The buttons located directly below the touchpad are the same in function as those on a two-buttoned mouse. Clicking these buttons makes selections, drags objects, or performs a variety of other functions depending on the software. To select an object, first move the pointer over the object you want to select, and then press the left button one time. The functions of these buttons are software specific.
5. *Double-clicking* is a common technique for selecting objects or launching programs from icons. Once you have moved the pointer over the object you wish to select, rapidly press the left button two times. This action is commonly referred to as “double-clicking” an object.

Dragging

There are two ways to drag:

- Move the pointer to the desired location then press down the left button. While still holding down the left button, move the pointer to the desired location. Release the button.
- Move the pointer to the desired location. Tap the touchpad twice quickly as if you were double-clicking, however do not remove your finger after the second tap. Move the cursor to the desired location. Lift your finger to finish dragging.

Adjust the touchpad settings by selecting Settings/Control Panel/Mouse/Buttons. These settings allow you to change the orientation of the touchpad from right-handed to left-handed, and fine tune the pointer movement and timing of clicks.

Touchpad Precautions

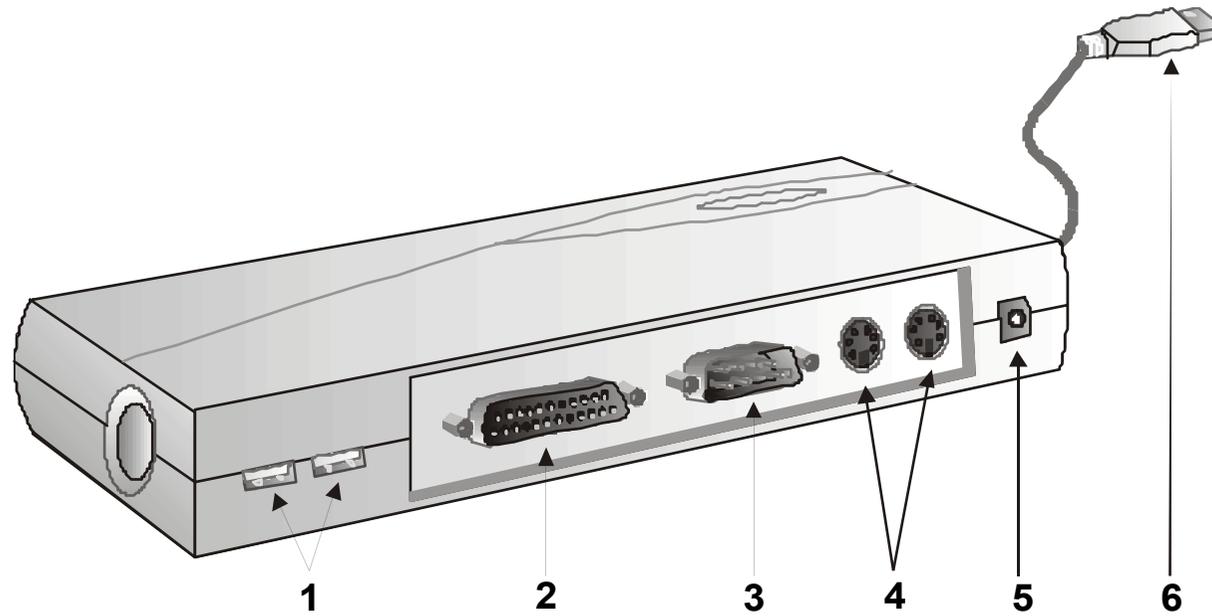
The Touchpad is a pressure-sensitive device. If not properly cared for, it can be easily damaged. Please take note of the following precautions.

- Make sure the touchpad does not come into contact with dirt, liquids or grease.
- Do not touch the touchpad if your fingers are dirty.
- Do not rest heavy objects on the touchpad or the touchpad buttons.

Scrolling Buttons

If you are scrolling through a document, you may find that using the scrolling button is more restful to your hand than holding down a mouse button. The scrolling button is located between the touchpad buttons. Push the top of the button to scroll up in a document or Web page; press the bottom of the button to scroll down in a document or Web page.

Port Bar

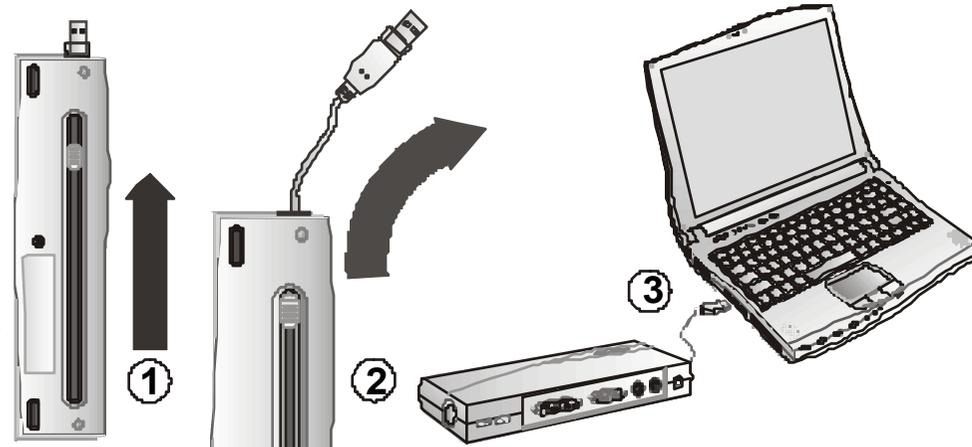


1. USB ports
2. Printer port
3. Serial port
4. PS/2 mouse and PS/2 keyboard ports
5. DC-in jack
6. USB-out to computer

Connecting the Port Bar

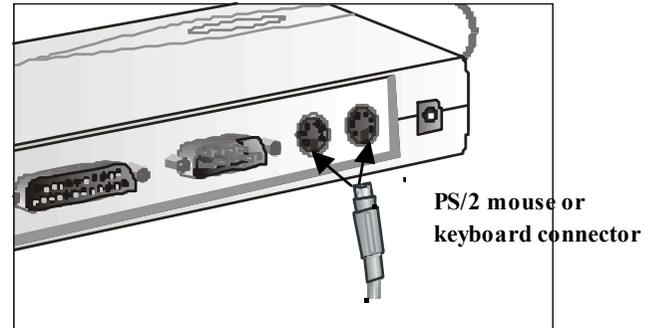
Your notebook computer comes with a USB port bar peripheral connection device. To connect the port bar, use the slider to eject the USB connector (1) and then pull the USB connector to fully extend the USB cable (2). Finally, plug the USB cable into one of the USB ports on the right side of the notebook (3).

Note: When the AC adapter is connected, the USB port supplies 500 mA (milliamperes) of power to the USB device. When the AC adapter is not connected, the USB port provides only 100 mA.



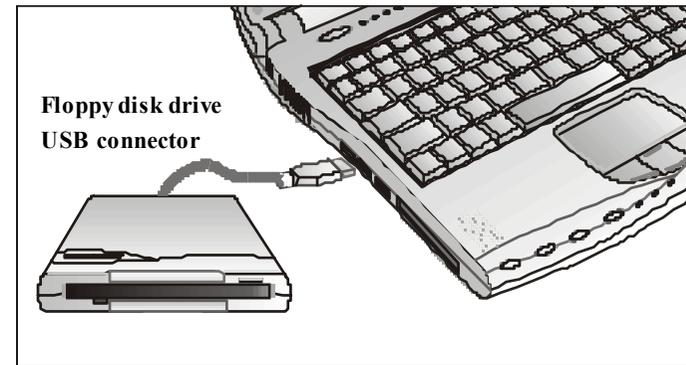
Connecting an External Keyboard or Mouse

Using the PS/2 ports on the port bar, you can connect your notebook computer to an optional external keyboard, numeric keypad, or IBM PS/2 compatible mouse.



Connecting the Floppy Disk Drive

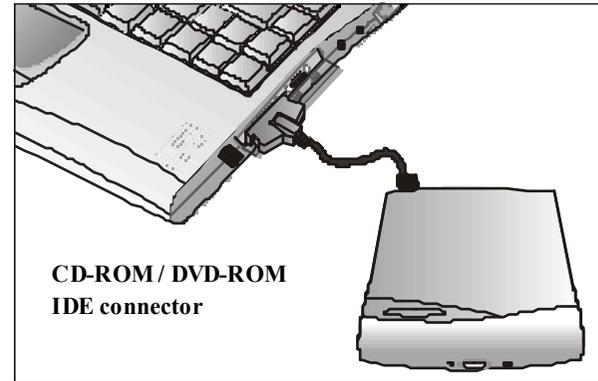
Your notebook computer comes with a USB port 1.44 MB floppy disk drive (FDD). The FDD is “hot pluggable,” so you do not have to powerdown the notebook to connect it.



Connecting the CD-ROM / DVD-ROM drive

Your notebook computer comes with an external IDE port CD-ROM or DVD-ROM drive. These drives are **not** “hot pluggable,” so you have to power down the notebook to connect them.

Note: You must power down the notebook before connecting a CD-ROM/DVD-ROM drive.



Disk Drives

Your computer comes with several components for reading and writing (recording) information.

Floppy Disk Drive

The floppy disk drive provides a convenient way of storing and transferring small files. The disk drive uses standard 3.5-inch, 1.44 MB disks.

To use the disk drive, insert a disk (label side up) into the drive slot and slide it all the way in. To eject the disk from the drive, press the eject button.

When the computer is reading from or writing to a disk, the disk indicator light will flash. Do not try to eject the disk when this light is active or you may lose data.

Hard Disk Drive

The hard disk provides high-capacity storage and fast access. Windows and most programs are stored here. Your notebook identifies the hard disk drive as drive C.

Connecting the Printer

To connect a printer to your notebook via the USB port, use the supplied USB to printer adapter cable.



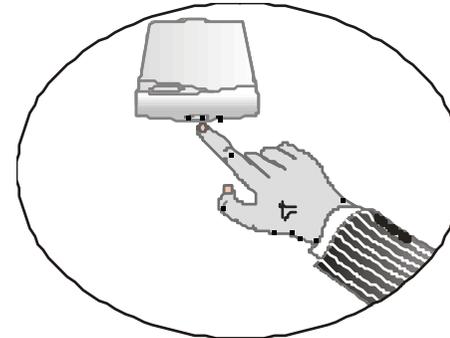
Note: Before use, you must install the driver for the adapter cable.

The CD-ROM or DVD Drive

Your computer comes with an external CD-ROM drive. The CD-ROM drive is a read-only drive. It cannot be used to write data to a recordable CD. The CD-ROM drive can read data from CDs, including audio or video CDs. The DVD drive can read both DVDs and CDs. Your notebook identifies the drive with the letter following the hard drive letter. If your hard drive is D, then the CD-ROM drive will be E.

Inserting a Disk

1. Press the button on the front of the drive to open the disk tray and pull the tray open.
2. Place the disk on the tray, label side up.
3. Place the disk on the central spindle and press gently until the disk clicks into place.
4. Slide back the tray until it clicks shut.



Removing a Disk

1. Make sure the computer is not accessing the CD-ROM drive.
2. Press the eject button and pull the tray all the way out.
3. Pick up the CD by the edges and remove the CD-ROM from the tray. Push the tray into the computer until it closes fully.



Warning: When the computer is reading from a CD-ROM/DVD, the indicator light for the CD-ROM will flash on. Do not attempt to remove a disk while this light is active.

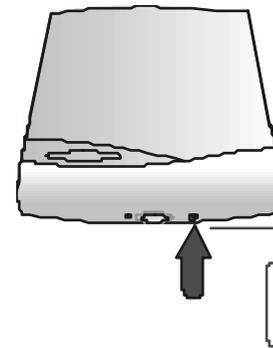
Precautions for Handling CD-ROM Discs

Keep these precautions in mind when handling CD-ROM discs.

- Always hold the disc by the edges; avoid touching the surface of the disc.
- Use a clean, dry, cloth to remove dust, smudges, or fingerprints. Wipe from the center outward.
- Do not write on the surface of the disc.
- Extremes in temperature may damage discs. Store discs in a cool dry place.
- Do not use benzene, thinners, or cleaners with detergent. Only use CD-ROM cleaning kits.
- Do not bend or drop the discs.
- Do not place objects on top of discs.



Warning: Do not insert any foreign objects into the disc tray. Do not force the tray to open or close manually. When not in use, keep the tray closed to prevent dust or dirt from entering the drive unit. If you experience difficulty when removing a CD disc, stretch a paper clip (or use a pin or a thin metal rod) and insert it into the emergency eject hole located on the front panel:



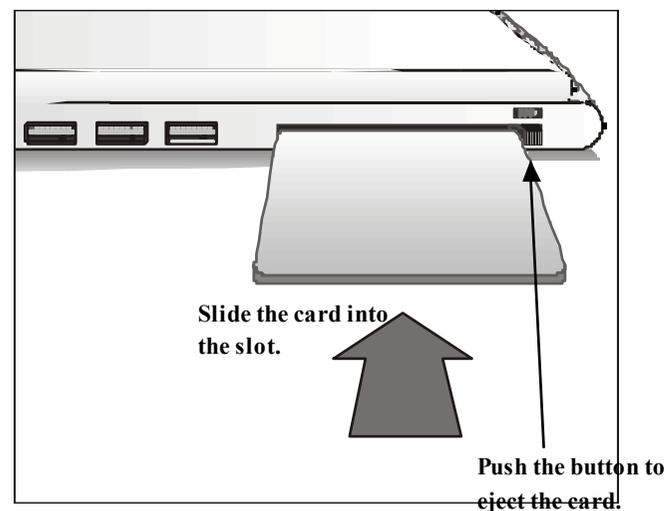
The CD disk tray should eject immediately. This procedure can also be used to remove a CD from the drive when the notebook is powered off.

The PC Card Slot

The PC card slot can be used as an interface between your computer and a variety of communications devices, such as network adapters, SCSI adapters, fax/modems, or an additional hard disc. Your computer's PC card slot supports PCMCIA Type II, 32-bit CardBus, and Zoomed Video cards.

Installing a Card

1. The top side of a PC card is usually identified with a label. Insert the card into the slot with the label side up and the edge with pinhole contacts going in first.
2. Insert the card into the slot. You will feel some resistance as the card slides into the back of the slot.
3. PC cards require drivers, or a program that allows the operating system to use a specific device. Many drivers are included with Windows, but if not, you will be prompted to install the driver included with your card.
4. The computer will beep twice to indicate successful installation. A single beep means that there was a problem recognizing the card.



Note: Please read the instructions included with individual PC cards. Some cards may be inserted with power on, while others require that the computer be turned off.

Removing a Card

1. If a card is in use, you must shut down the card before removing it.
2. Click the PCMCIA icon on the right side of the taskbar, then click Stop.
3. Press the eject button on the card slot to release the button.
4. Press again to release the card.

Adding Memory (authorised service personel only!)

Adding memory allows the computer to operate faster, handle more tasks simultaneously, and work more smoothly with large files. Users who increase memory demands - by adding additional programs, for example - may notice a slowdown in operating speed, and wish to increase memory. The notebook includes a memory card slot for adding additional memory.



Note: Use only 1-inch SODIMM (PC-100) modules.

Calculate memory size by adding the size of the memory module to the existing built-in memory. For example:
64 MB (module) + 64 MB (built-in memory) = 128 MB Total

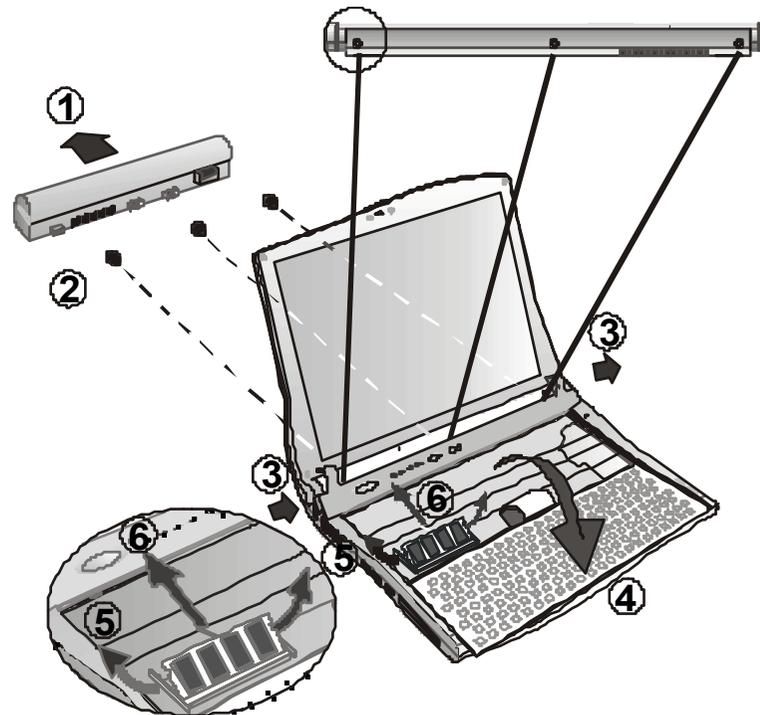
Replacing a Memory Card



Warning: Memory modules can be easily damaged by static electricity. Leave the module inside its static-proof bag until it is ready for installation.

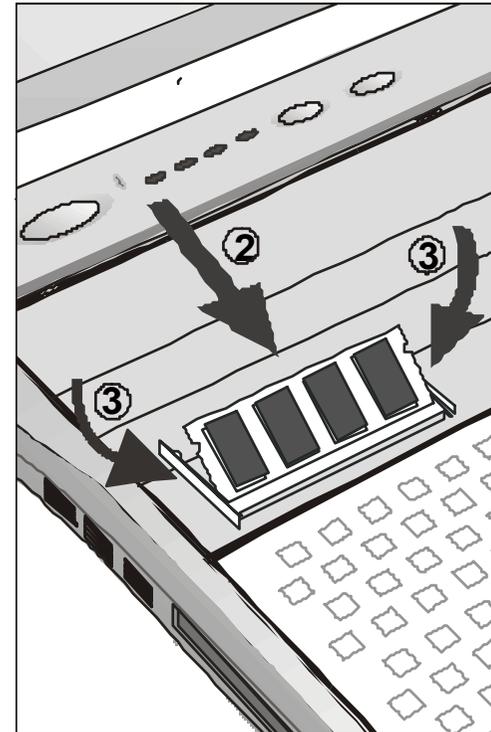
Removing a memory card

1. Remove the battery. For instructions, see Chapter 5, *When to Replace the Battery*.
2. Remove the three screws that fasten the LED panel to the case.
3. Using your thumbs, rotate and lift the LED panel as shown. Be careful not to pull too hard, as this piece is connected to the main board.
4. Gently remove the keyboard and place it as shown. Do not strain the cable that connects the keyboard to the computer.
5. Locate the memory chip. Pull the tabbed latches in the direction of the arrows. The card will pop up slightly.
6. Pull upwards on the card and then slide the card out.



Inserting a card

1. Hold the memory card by its edges with the edge-connector side towards the slot.
2. Hold the card at a shallow angle (about 25 degrees) and insert the edge connector into the connector slot. The "gold teeth" of the edge connector should no longer be visible when the card is fully inserted.
3. Press the card downwards so that it is flat inside the compartment. You may hear a click as the latches of the connector lock the card in place.
4. Replace the keyboard by inserting the four tabs along the bottom edge of the keyboard into the corresponding four slots in the notebook case. Be careful that the keyboard connector cable is properly situated underneath the keyboard.
5. Replace the LED panel by inserting the end pieces and the three tabs into the corresponding slots. Rotate the panel down into position so that the screw holes on the rear of the notebook line up with those on the LED panel.
6. Ensure that the four tabs along the top of the keyboard are in place beneath the LED panel by gently pressing down on the keyboard until it clicks into place.
7. Replace the three screws in the rear of the case and replace the battery.



Your notebook computer will automatically detect the change in RAM capacity when it restarts.

The Graphics System

Your computer has a high-performance graphics system, which can easily handle the demands of today's multimedia computing.

Screen Controls

Brightness

Function keys can increase or decrease the brightness of the monitor.

- <Fn> + <F6> decreases the LCD panel brightness
- <Fn> + <F7> increases the LCD panel brightness

Resolution

1. Click My Computer/Settings/Control Panel/Display. Click the Settings tab. The dialog box indicates the monitor resolution.
2. Use the slide bar to adjust the resolution. Normally, you should use the resolution the LCD or monitor was designed for.



Note: Using a lower resolution than the screen was designed for will reduce the area of the display. Using the computer in DOS mode may produce the same effect, because it uses a 640 by 480 resolution by default. You can stretch these low resolution displays to full screen size by selecting either the Expanded Display or Display Expansion Mode features in the BIOS utility. However, the stretching may cause distortion, especially to fonts.

High Resolution with an external monitor

Higher resolution modes may be used, as long as the monitor supports them.

Connecting to an External Monitor

The notebook has a mini-VGA monitor port to connect your computer to an external monitor.

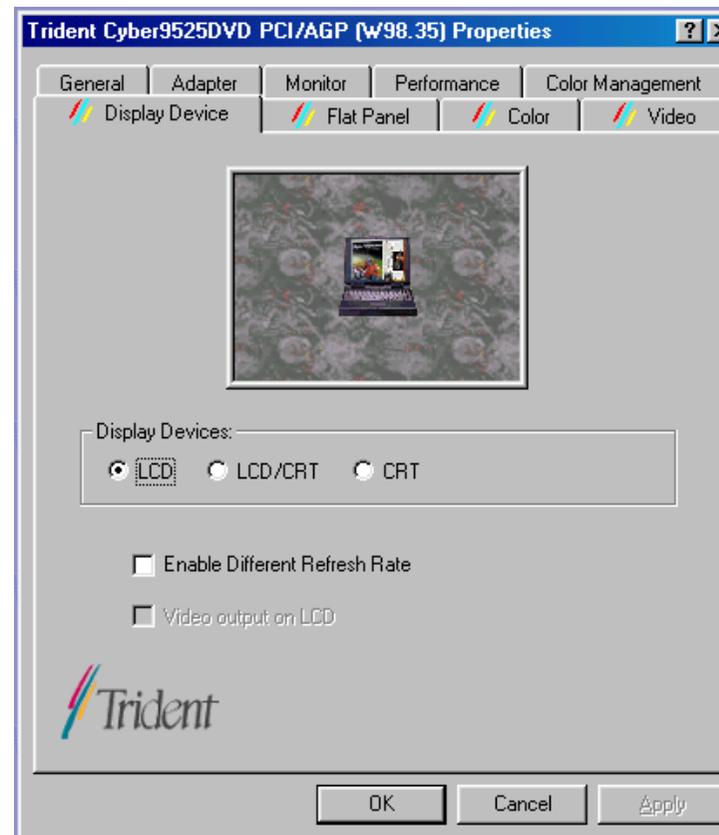
Using the VGA monitor port

1. Locate the 14-pin mini-VGA monitor port on the right side of your notebook and connect the video signal cable from the external monitor (or the mini-VGA adapter) to the monitor port.
2. Connect the power cable from the external monitor to a power outlet and turn on the monitor.
3. On your notebook, click the right touchpad button on the Windows 98 desktop to open the desktop menu. Click **Properties** to open the Display Properties window.
4. In the Display Properties window, click **Advanced** in the Settings tab. Click the **Display Device** tab.
5. Select the appropriate buttons to change the display to an external monitor (CRT, for cathode ray tube).
6. Adjustments to screen resolution and color depth can also be made in this dialog box.

Dual Displays

With Windows 98/2000/ME, you may use an external monitor simultaneously with your notebook's LCD. You may also use the external monitor only and disable the LCD or only use the LCD. To do this you may first need to enable the multiple display settings in Windows 98.

1. Open the Control Panel.
2. Double-click **Display**. The Display Properties window opens.
3. Click the **Settings** tab.
4. Click the **Advanced** button.
5. Click the **Display Device** tab. The screen shown at the right appears.



The options for **Display Device** are described below.

<u>LCD or CRT</u>	<p>Choosing LCD will select your laptop's built-in LCD screen as the primary display. Choosing CRT will select an attached VGA monitor as the primary display.</p> <p>In either LCD or CRT mode, the video display hot key combination is available—you can cycle the video output by pressing <Fn> + <F2>.</p>
<u>LCD/CRT</u>	<p>In this option, there is no primary display. If the external CRT is connected, the display on the LCD and the CRT is exactly the same.</p> <p>In LCD/CRT mode, the video display hot key combination is available—you can cycle the video output by pressing <Fn> + <F2>.</p>



Tip: To ensure trouble-free video output, the first time you use an external monitor, change the output in the Display Properties dialog box. After successfully switching modes, you may use the video function keys.

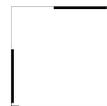
Zoom Video

Zoom video technology allows you to view video at full speed, without the slowdown that often accompanies video images played on a computer.

Your computer's PC card slot supports ZV interface cards such as MPEG-II or Video Capture cards. To take advantage of ZV technology, you will need to install a ZV card in the PC card slot. Contact your retailer for more information.



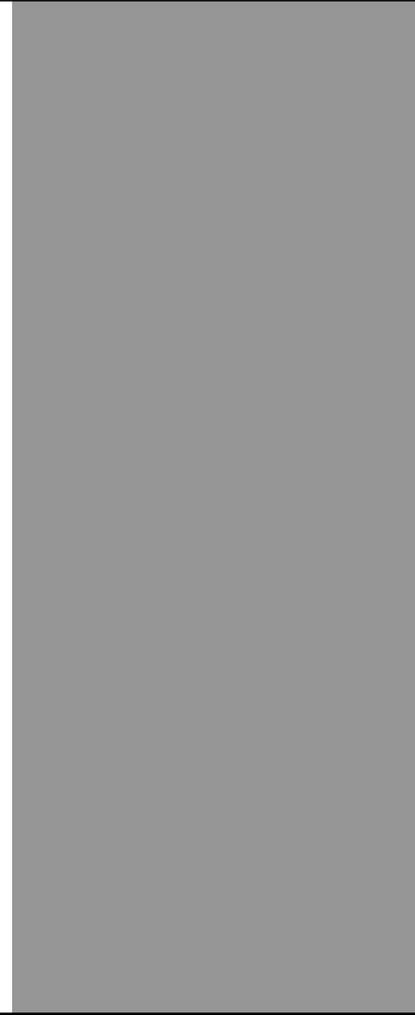
Note: Light or dark dots may appear on the LCD due to technical limitations of LCD manufacturing. This will not effect normal operation of the LCD.





Chapter 3

Making Connections

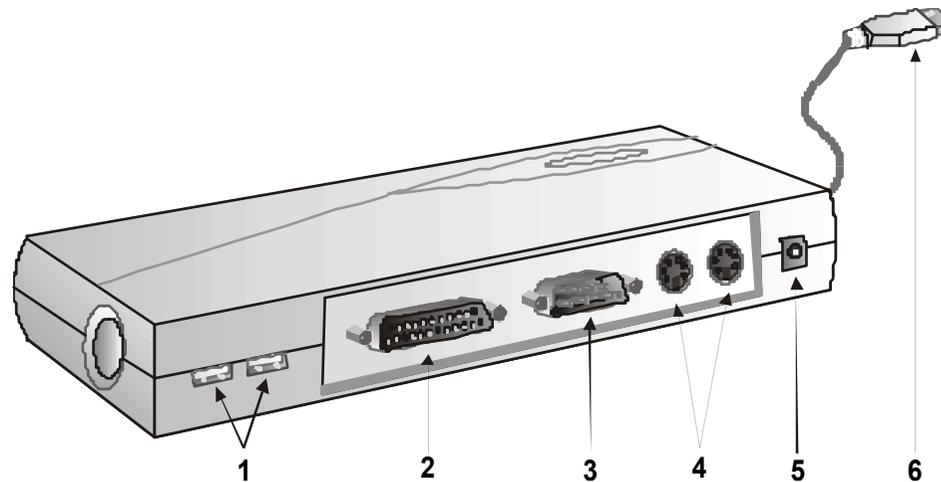


Making Connections

Your computer is equipped with a full array of ports and connectors, including standard input/output (I/O) ports for quickly and easily adding peripheral devices such as printers, keyboards, and mice. Refer to documentation included with individual devices for details on connecting these devices to your computer. Along with the standard ports found on most computers, your computer also includes modem and LAN ports, offering advanced communications technology.

Port Bar Connectors

You will find the serial, printer, and PS/2 keyboard and mouse ports on the port bar. The port bar also has two auxiliary USB ports and an auxiliary power port.



Note: The Port Bar can work without being connected to the AC adapter. When connected to the AC adapter, the Port Bar supplies 500mA to the serial, printer, PS/2, RS232, and USB ports. When running on notebook battery power, the Port Bar supplies only 100mA.

1. **USB (Universal Serial Bus) Ports**

The Universal Serial Bus (USB) is the latest standard for attaching monitors, input devices, scanners, and other devices to a PC. USB devices can be chained together on a single cable.

2. **Printer Port**

Use the 25-pin parallel port to connect your computer to a parallel device such as a printer, or set up a direct connection between two computers.



Note: before you can use a printer on your printer port, you must install the printer drivers. Refer to your printer user's manual for instructions.

3. **Serial Port**

The 9-pin serial port can be used to connect your computer to serial devices.

4. **PS/2 Ports**

You can use the mini-DIN PS/2 ports to connect your computer to PS/2 devices such as a PS/2 keyboard and mouse.

5. **DC-in Jack**

Connect the DC power cable from the AC adapter to this jack.

6. **USB-out Port**

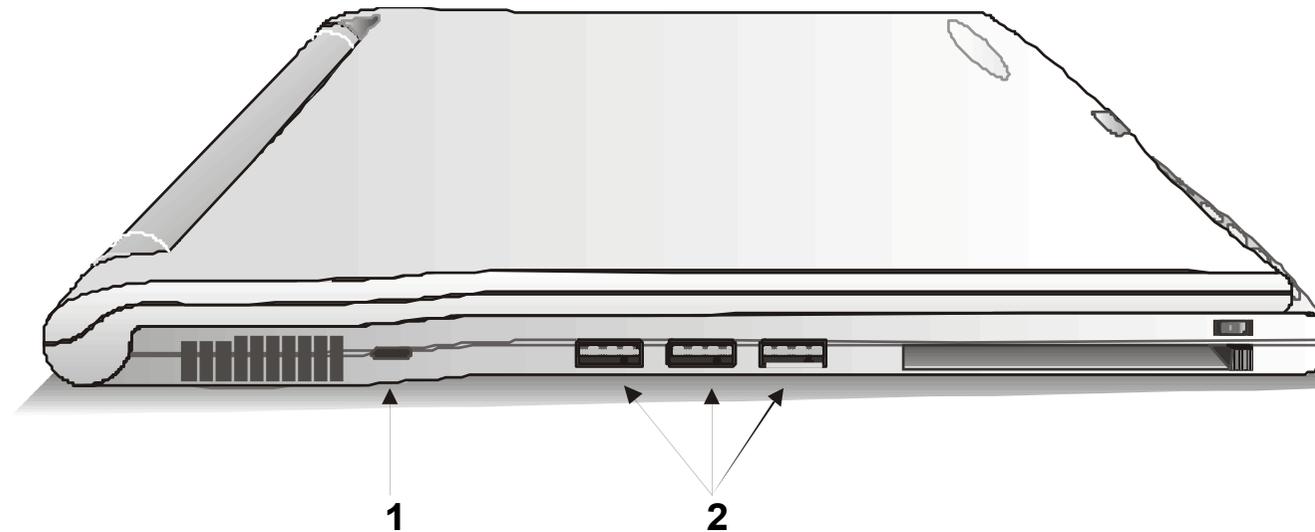
Use this port to connect the port bar to one of the USB ports located on the left side of the notebook.



Notes:

1. All devices connected to the USB port bar must be Microsoft WHQL (Windows Hardware Quality Labs) compliant.
2. The USB Port Bar cannot work under the MS-DOS environment.

Left Side Connectors



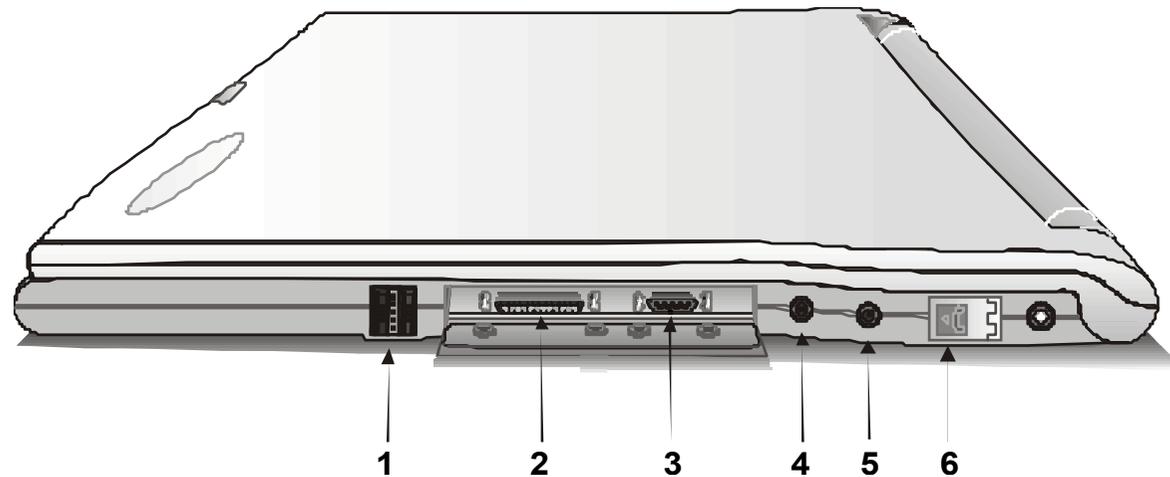
1. Kensington Lock

Your computer includes a Kensington lock hole to be used with a standard Kensington lock. You can connect the notebook to a large object with the Kensington lock to prevent theft of your notebook. See the documentation that comes with your Kensington lock for more information.

2. USB (Universal Serial Bus) Ports

The Universal Serial Bus (USB) is the latest standard for attaching monitors, input devices, scanners, and other devices to a PC. USB devices can be chained together on a single cable. (See *Port Bar and Connecting the Floppy Disk Drive* in Chapter 2 for more information on connecting to one of these devices.)

Right Side Connectors

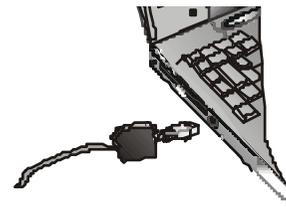
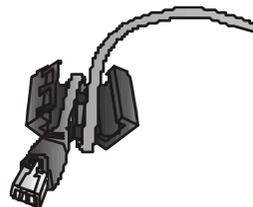


1. LAN RJ-45 Jack

With the built-in Ethernet LAN combo, you can make LAN connections without installing PC cards. Connection speed is 10/100 Mbps. When using the LAN function, wrap your LAN cable around the EMI ferrite suppression box to inhibit electromagnetic interference.



Note: When using the LAN function, wrap your LAN cable around the EMI ferrite suppression box to inhibit electromagnetic interference:



2. CD-ROM/DVD-ROM IDE Port

The IDE port is used to attach the CD-ROM or DVD-ROM drive that came with your computer. (See Chapter 2 for more information on connecting to one of these devices.)

3. VGA Out (External Video) Port

The mini 14-pin VGA port requires an adapter to attach to most external monitors. (See *The Graphics System* in Chapter 2 for more information on connecting to an external monitor.)

4. Audio-out Jack

Connect a stereo headset or external speakers to this jack to listen to multimedia.

5. Microphone Jack

Connect a mono microphone to this jack to record audio.

6. Fax/modem RJ-11 Jack

The fax/modem can transmit data using the 56 Kbps V.90 protocol, and send and receive faxes at 14.4 Kbps. In some countries, local regulations may not permit the use of the fax/modem designed for this system. In this case, you may use a PCMCIA modem.



Warning: Plug your modem into an analog telephone jack only. Most homes use analog lines. Do not use digital lines, such as the PBX and ISDN systems found in many offices. Digital lines may damage your modem.



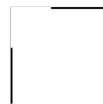
Notes:

1. Before using devices attached to the port bar, you must install the device drivers and restart your system.
 2. Only connect serial mice and serial modems to the serial port.
 3. Only connect printers to the parallel port.
 4. Only connect PS/2 mice and PS/2 keyboards to the PS/2 mouse and keyboard ports.
-



Chapter 4

System Software



System Software

Software List

Operating System

Your hard drive already contains all the software you need to operate the computer. On most versions Windows 98 is pre-installed as the operating system.

Audio and Video Drivers

These utility programs and drivers are included for the PC Card drive, the sound system, and the graphics subsystem.

Virus Scanner

This utility protects your computer and data from potentially damaging computer viruses.

Power DVD

The Power DVD player will let you watch DVD movies on your notebook.

System Recovery

Before you start

Your system includes two Recovery CD-ROMs. Follow the instructions on the CDs to reinstall the operating system, the system software, or add a new hard disk.

- The factory has pre-partitioned your system's hard disk, so you may directly install the system software; however, if you add a new hard disk, you must first partition it.
- If you reinstall your operating system, all of the data originally on the hard disk will be overwritten. Before reinstalling the operating system, carefully backup any important data.
- Your system is shipped with two different Recovery CD-ROMs. Before reinstalling, note the CD-ROM labels.





Chapter 5

Power Management



Power Management

Battery Calibration

The first time you use a battery, you should calibrate it. The calibration process empties and charges the battery several times. This allows the Windows battery gauge to accurately monitor battery status. To calibrate a battery, follow these steps:

1. Plug in the AC adapter.
2. Restart the computer and when the startup screen appears, press <F2> to enter the BIOS Setup Utility.
3. In the BIOS Setup Utility, select Exit. Choose Battery Calibration, then press <Enter>.

Please make sure that AC adapter & Battery are present. Do you wish to do battery auto-learning?

(y/n)

4. Press <Y> at the above Battery Calibration dialog to begin the battery calibration.

Battery Calibration will take from 6 to 10 hours, depending on how much power the battery may already contain.



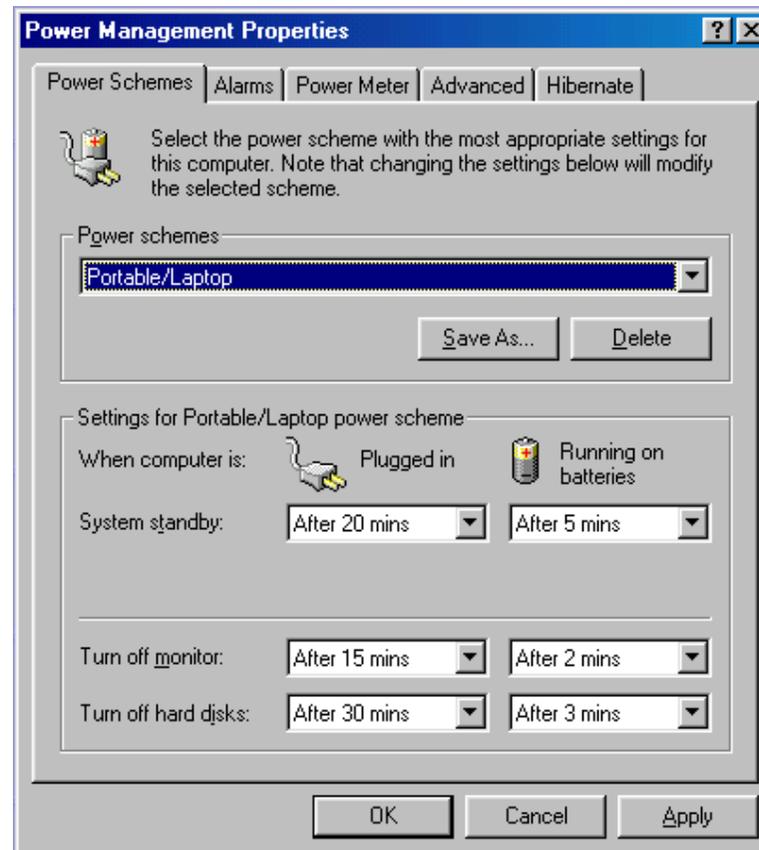
Note: For optimum performance, we recommend calibrating the battery again every three months. Each time you charge and discharge a battery, it loses a tiny part of its storage capacity, so that, over time, it will store less than its potential charge. Similarly, if you do not use the battery for a few days, it will slowly self-discharge, and when it is recharged, it will hold less than 100% of the potential charge.

Monitoring Battery Power

There are two ways to monitor how much power the battery has left.

1. Click Start/Settings/Control Panel/Power Management; then click Power Management.
1. Moving the cursor to the battery icon on the taskbar is the simplest way to check on battery power status.

If you do not see the battery icon, enable it in Start/Settings/Control Panel/Power Management. Choose the Advanced tab and click “Show power meter on taskbar.”



Low Battery Alarms

How your computer responds to a low battery condition is set under Start/Settings/Control Panel/Power Management/Alarm.

Two different power alarms can be enabled or disabled: the Low Battery Alarm, and the Critical Battery Alarm. Use the sidebar to set the power level at which the alarms are activated. Click on the Action button to choose whether the alarm sounds, displays a message, or both.



Warning: When battery power is low, the battery indicator will flash red, and the alarm will beep or display a warning on your screen. Take immediate action, such as saving files or connecting to the AC adapter, or data may be lost.

When the computer alerts you that the battery is low, immediately do one of the following:

- Connect the AC power adapter
- Save your work, and suspend to disk <Fn> + <F3>
- Save your work, then select Shut Down from the Start menu
- Turn off or suspend the computer and replace the discharged battery with a charged battery (See *Changing the Battery* below).

Do not restart the computer until you have connected to an AC adapter, or replaced the discharged battery with a charged battery.

Battery Charging

When you use the AC adapter to connect your Notebook to a power outlet, the internal battery will automatically begin to recharge. While the battery is charging, the Battery Charge icon on the Indicator panel will be active. When the battery is fully charged, the Battery Charge icon will turn off.

If your computer is turned off, a fully discharged battery will take about 4 hours to recharge. If your computer is turned on and is not in suspend mode, it will take about 6 hours to recharge the battery. Refer to the following table:

	Charging
System On	6 hours
System Off (suspend to RAM)	4 hours

Power Saving Modes

Adjust the default power management settings in the Power Management dialog box in the Control Panel. The Power Management dialog box allows you to set different actions to take when the computer is left idle for a certain amount of time.

Suspend Mode

There are several possible settings for suspend mode, which can be selected in the Power Management dialog box: You may have the notebook standby, hibernate, or you can shutdown the computer altogether.

Standby

All devices are powered up except for the clock synthesizer. The Host and PCI clocks are inactive and Banister provides control signals and 32-kHz Suspend Clock (SUSCLK) to allow for DRAM refresh and to turn off the clock synthesizer. The only power consumed in the system is due to DRAM Refresh and leakage current of the powered devices.

When the system resumes from POS. Banister can optionally resume without resetting the system, can reset the processor only, or can reset the entire system. When no reset is performed. Banister only needs to wait for the clock synthesizer and processor PLLs to lock before the system is resumed. This takes typically 20 ms.

Hibernate

Suspend to Disk is similar to turning off the computer, except that the current state of the computer is copied to the hard disk as a special file. When the computer returns from suspend mode, the desktop appears with the same files and programs open as when the computer was suspended. Suspend to Disk is very useful when you don't want to take the time to shut down all open programs one by one to shut off the computer, only to have to open the same programs and files the next time you use the computer. This mode is also called hibernation mode.

Suspend-to-disk Partition/Suspend-to-disk File

In order to Suspend to Disk, you must have a special suspend-to-disk partition/file on your hard disk drive. This partition file is pre-installed on your computer. The pre-installed partition file is large enough to store all system memory.

Shutdown

System is powered off.

Initiating Suspend Mode

There are four ways to initiate suspend mode. The settings can be adjusted in the Power Management dialog box:

- The computer will automatically enter suspend mode when not used for a set period of time.
- Selecting the Stand by button in the Shut Down Windows dialog box.
- Closing the screen cover (assuming no external monitor has been connected).
- Pressing the power button (if enabled in power settings).
- Pressing the suspend function key <Fn> + <F3>.

Using the BIOS Utility for Power Management

With Windows running in ACPI mode, power can be controlled through the Power Management dialog box only. With operating systems that use ACPI power management, BIOS power settings have no effect.

Power Button Settings

The function of the power button can be set to Shutdown or Standby in the Power Management Properties dialog box in the Windows Control Panel. However, holding the power button down for more than four seconds will force a power off while operating under any situation, resulting in the loss of any unsaved information.

Power Saving Tips

- Avoid operating the fax/modem, or audio and video applications when using battery power. Operating a fax modem, video, or audio equipment increases the computer's power requirements.
- Decreasing monitor brightness can also save power. Decrease brightness by pushing <Fn> + <F6>. Increase it by pushing <Fn> + <F7>.

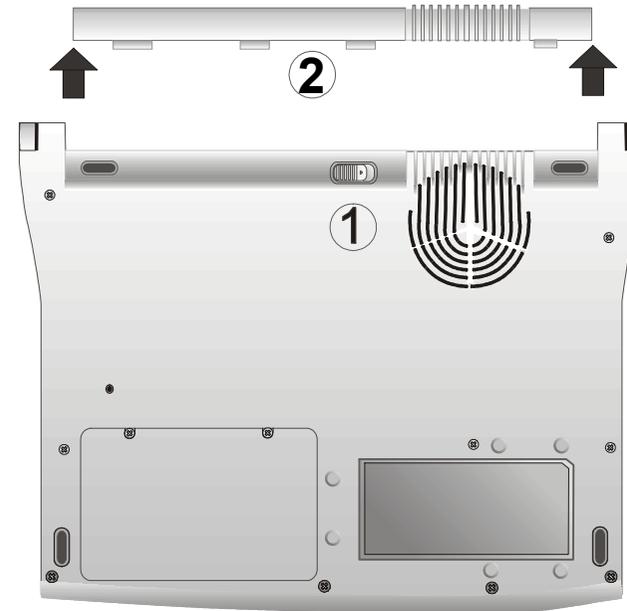
When to Replace the Battery

Over time, the battery's capacity gradually decreases. We recommend that you replace your battery when you notice that it begins to store significantly less charge.

Changing the Battery

Change the main battery pack as follows:

1. Turn off the computer.
2. Close the screen cover and turn the computer over.
3. Slide the side battery latch (1) away from the battery, in the direction of the arrow. Continue to hold it until the battery is removed.
4. Make sure the replacement battery is properly orientated. Slide back the side battery latch (1) then insert the battery into the battery compartment. Check that the latch locks back into position.



Heat Considerations

The computer's processor has been specially designed to consume little power, and generates very little heat. However, working in a hot environment, or working for long periods may raise the temperature. Your computer takes the following steps to lower temperature:

1. The cooling fan is turned on. You may feel air coming from a vent near the power key when this happens.

If the temperature continues to rise:

2. Processor activity is reduced. You may notice a slight loss of performance when this happens.



Chapter 5 — Heat Considerations





Chapter 6

Using BIOS Setup



Using the BIOS Setup Utility

This chapter explains how to use and modify the BIOS Setup Utility. The Setup Utility stores data about the notebook components and the configuration of devices that are connected to it. This information is used to test and initialize components at start-up time and to make sure everything runs properly when the system is operating.

If you are not sure how to configure the Setup Utility, we suggest that you select *F9 Setup Defaults* on the Main Menu screen, then exit saving changes. This loads optimized default settings for normal use.

BIOS Setup Menu

The BIOS Setup Utility allows you to configure your computer's basic settings. When you turn your computer on, the system reads this information to initialize the hardware so that it can operate correctly. Use the BIOS Setup Utility to change your computer's start-up configuration. For example, you can change the security and power management routines of your system.

Starting the BIOS Setup Utility

You can only start the Setup Utility shortly after the computer has been turned on. A prompt appears on the computer display that says *“Press F2 to enter Setup.”* When you see this prompt, press <F2> and the system will start the Setup Utility and display the main menu of the utility.

Item Specific Help

On the right side of the Setup screen is an area labeled Item Specific Help. This area will list navigation key shortcuts and information that is specific for the item that you are currently editing.

The Menu Bar

The top of the screen has a menu bar with the following selections:

- Main** Use this menu to make changes to the basic system configuration.
- Security** Use this menu to set a password. The password allows bootup and controls access to the BIOS setup menu.
- Power** Use this menu to configure and enable Power Management features.
- Exit** Use this menu to exit the current menu or specify how to exit the Setup Utility.

To access the menu bar items, press the right or left arrow key on the keyboard until the desired item is highlighted.

The Legend Bar

At the bottom of the Setup screen you will notice a legend bar. The keys in the legend bar allow you to navigate through the various setup menus. The following table lists the keys found in the legend bar with their corresponding alternates and functions.

Legend Key	Alternate Key	Function
F1	Alt + H	Displays the General Help window. It can be enabled from anywhere in the BIOS.
Esc	Alt + X	Jumps to the Exit menu or returns to the Main menu from a submenu.
←		Selects the menu item to the left.
→		Selects the menu item to the right.
↑ or ↓	keypad arrow keys	Moves the cursor up and down between fields.
Tab	Enter	Moves the cursor to the next position available in the field.
Shift + Tab		Moves the cursor to previous position available in the field.
Minus key (—)	F5	Scrolls backward through the values for the highlighted field.
Plus key (+)	F6, Space	Scrolls forward through the values for the highlighted field.
Home	PgUp	Moves the cursor to the field at the top of the window.
End	PgDn	Moves the cursor to the field at the bottom of the window.
F9		Sets the parameters for the current menu to their <i>default</i> values.
F10		Saves the configuration parameters and exits the Setup Utility.
Enter		Will select a sub menu or show a range of options for a field.

Launching Submenus

Note that a right pointer symbol appears to the left of certain fields. This pointer indicates that a submenu can be launched from this field. A submenu contains additional options for a field parameter. To call up a submenu, simply move the cursor to highlight the field and press <Enter>. The submenu will immediately appear. Use the legend keys to enter values and move from field to field within a submenu just as you would within a menu. Use <Esc> to return to the Main menu.

Take some time to familiarize yourself with each of the legend keys and their corresponding functions. Practice navigating through the various menus and submenus. If you accidentally make unwanted changes to any of the fields, use the “Setup Defaults” hot key <F9>. While moving around through the Setup Utility, note that explanations appear in the *Item Specific Help* window located to the right of each menu. This window displays the help text for the currently highlighted field.

General Help

In addition to the Item Specific Help window, the Setup Utility also provides a General Help screen. This screen can be called up from any menu by simply pressing <F1> or the <Alt> + <H> combination. The General Help screen lists the legend keys with their corresponding alternates and functions.

When a scroll bar appears to the right of a help window, this indicates that there is more information to be displayed that won't fit in the window. Use <PgUp> and <PgDn> or the up and down arrows <↑> <↓> to scroll through the entire help document. Press the Home key to display the first page, press End to go to the last page. To exit the help window, press <Enter> or <Esc>.

Saving Changes and Exiting the Setup Program

Refer to the Exit menu section of this chapter for detailed information on saving changes and exiting the setup program.

The Main Menu

When the Setup Utility is accessed, the following screen appears:

PhoenixBIOS Setup Utility			
Main	Security	Power	Exit
System Time: [04:31:35] System Date: [01/02/2000]			Item Specific Help <Tab>, <Shift-Tab>, or <Enter> selects field
▶ Primary Master: [6007MB] Primary Slave: [CD-ROM/DVD]			
▶ Boot Device Priority			
▶ Advanced Features			
System Memory: 640 KB			
Extended Memory: 31 MB			
F1 Help	↑↓ Select Item	-/SPACE Change Values	F9 Setup Defaults
Esc Exit	←→ Select Menu	Enter Select ▶ Sub-Menu	F10 Save and Exit

Standard Feature Description

Field	Setting	Function
System Time & Date		Use these fields to set the time (24-hour format) and date (from 01/01/1981 to 12/31/2099). The values set in these two fields take effect immediately.
Primary Master	Auto	The default setting is Auto. Auto lets the system automatically read setup information from the device. User allows the user to define the setup information. See the next table for more on this feature.
	User	
	None	
Primary Slave	CD-ROM/DVD	This field displays the system's primary slave, either the device attached to the IDE port or "None."
Boot Device Priority	Hard Drive	Use this menu to set the devices from which the system should boot in order of priority. The default value is Hard Drive; ATAPI CD-ROM Drive, which means that the computer will attempt to boot from the HDD first, then the CD-ROM.
	ATAPI CD-ROM Drive	
Advanced Features	Internal Keyboard NumLock	Allows the user to disable or enable support for the internal keyboard's number lock feature.
	Resolution expanded	Allows the user to disable or enable support for the video resolution expansion feature.
System Memory; Extended Memory		These fields display the amount of conventional memory and extended memory detected by the system during bootup. They are display only fields.

Primary Master Settings

Type	“User” allows the user set the drive information, while “Auto” has the system automatically detected the optimal values. The field can be set to “None” to disable the HDD.
Cylinders	Displays the number of cylinders on the hard disk drive.
Heads	Displays the number of heads per cylinder on the hard disk drive.
Sectors	Displays the number of sectors per head on the hard disk drive.
Maximum Capacity	Displays the hard disk capacity.
LBA Mode	LBA (Logical Block Addressing) mode is used to support IDE hard disks larger than 504 MB. LBA support is required for compatibility with the FAT32 system. The default setting is “Enabled.”
32 Bit I/O	Enables or disables 32 bit IDE transfers.
Transfer Mode	Allows the user to select the method for moving data to and from the drive. PIO (Programmed Input/Output) mode refers to data transfer method used by IDE drives. These modes use the CPU's registers for data transfer in contrast with DMA (Direct Memory Access), which transfers directly between main memory and the peripheral device. The default value, “Auto,” lets the system automatically read setup information it needs for setup from hard disk drive.
Ultra DMA Mode	Allows the user to select the Ultra DMA mode used to moving information to or from the drive.



Note: Before attempting to configure a hard disk drive, make sure you have the configuration information supplied by the manufacturer of your hard drive. Incorrect settings can result in your system not recognizing the installed hard disk.

The Security Menu

The Setup Utility allows you to specify passwords in the Security menu. The passwords control access to the BIOS and certain Security menu options during system startup. The passwords are not case sensitive. In other words, a password can be entered using either upper or lower case letters.

PhoenixBIOS Setup Utility			
Main	Security	Power	Exit
User Password Is:	Clear		Item Specific Help
Supervisor Password Is:	Clear		Supervisor Password controls access to the setup utility.
Set User Password:	[Enter]		
Set Supervisor password:	[Enter]		
Password On Boot:	[Disabled]		
Fixed Disk Boot Sector:	[Normal]		
F1 Help	↑↓ Select Item	-/SPACE Change Values	F9 Setup Defaults
Esc Exit	←→ Select Menu	Enter Select ► Sub-Menu	F10 Save and Exit

Security Setup Description

Field	Setting	Function
User/Supervisor Password Is	Clear	These fields tell you whether a User and Supervisor password have been set. "Clear" indicates that no password has been set. "Set" indicates that a password has been set.
	Set	
Set User/Supervisor Password		These fields allow you to set the User and Supervisor passwords (the Supervisor password must be set before the User password.) To set the Supervisor password, highlight the field and press <Enter>. The following dialog box appears:

Set Supervisor Password	
Enter New Password	[]
Confirm New Password	[]

Type the password and press <Enter>. You can type up to eight alphanumeric characters. Symbols and other keys are ignored. To confirm the password, type the password again and press <Enter>. The Supervisor password is now set. This password allows full access to the BIOS Setup menus.

To clear a password, highlight this field and press <Enter>. The same dialog box as above appears. Press <Enter> twice. The password is now cleared.

Password On Boot	Disabled	This option requires prior setting of the Supervisor password to function. Enables or disables the requirement to enter a password at startup.
	Enabled	
Fixed Disk Boot Sector	Normal	This option requires prior setting of the Supervisor password to function. When set to "Normal," the system will allow normal access to the HDD boot sector. When set to "Write Protect," the BIOS blocks all access to the boot sector.
	Write Protect	

The Power Menu

The Power menu of the Setup Utility allows you to enable and adjust the computer's advanced power saving features. To make changes to Power Management settings, select Power from the menu bar. The following menu appears:

PhoenixBIOS Setup Utility			
Main	Security	Power	Exit
Power Savings:		[Disabled]	Item Specific Help
Hard Disk Timeout:		Off	Maximum Power Savings conserves the greatest amount of system power. Maximum Performance conserves power but allows greatest system performance. To alter these settings, choose Customized. To turn off power management, choose Disabled.
Auto Suspend Timeout:		Off	
Suspend Mode:		[Suspend]	
Cover Close To:		[Suspend]	
Battery Low Warning Beep:		[Enabled]	
F1 Help	↑↓ Select Item	-/SPACE Change Values	F9 Setup Defaults
Esc Exit	←→ Select Menu	Enter Select ► Sub-Menu	F10 Save and Exit

Power Setup Description

Field	Setting	Function
Power Savings	Disabled	If this item is set to “Disabled,” Power Management features will not function regardless of other field settings on the Power menu. The “Customized” option allows you to make your selections from the other fields within the Power Menu. When set to “Maximum Power Savings,” system power will be conserved to its greatest amount. The remaining fields will be set to pre-defined values that ensure maximum power savings. When “Maximum Performance” is specified, optimum system performance is achieved with some power conservation. The remaining fields within the Power Menu will be set to pre-defined values that ensure maximum power savings.
	Customized	
	Maximum Power Saving	
	Maximum Performance	
Hard Disk Timeout	1, 2, 4, 6, 8, 10, or 15 minutes	This field shows the amount of time the system will wait with the HDD inactive before shutting it down.
Auto Suspend Timeout	5, 10, 15, 20, 30, 40, or 60 minutes	This field shows the amount of time the system will wait in Standby mode before entering Suspend mode.
Suspend Mode	Suspend	This field allows you to select the type of suspend mode the system will use. “Suspend” means the system saves its state and remains in low power mode. “Save To Disk” means the systems saves the information in the RAM to the HDD and powers off.
	Save To Disk	
Cover Close To	Suspend	This field determines the whether the system goes into suspend mode when the cover is closed, or whether only the LCD is turned off.
	LCD Off	
Battery Low Warning Beep	Disabled	This feature allows the user to enable or disable the audible low battery warning alarm.
	Enabled	

The Exit Menu

Once you have made all of your selections from the various menus in the Setup Utility, you should save your changes and exit Setup. Select Exit from the menu bar to display the following menu:

PhoenixBIOS Setup Utility			
Main	Security	Power	Exit
Exit Saving Changes Exit Discarding Changes Load Setup Defaults Discard Changes Save Changes Battery Calibration		Item Specific Help Exit System Setup and save your changes to CMOS.	
F1 Help	↑↓ Select Item	-/SPACE Change Values	F9 Setup Defaults
Esc Exit	←→ Select Menu	Enter Select ► Sub-Menu	F10 Save and Exit

Exit Description

Field	Function
Exit Saving Changes	Once you are finished making your selections, choose this option from the Exit menu to ensure the values you selected are saved to CMOS memory. The next time you bootup the computer, the BIOS will attempt to load the values you saved in Non-Volatile memory. If these values cause the system boot to fail, reboot and press <F2> to enter the Setup Utility. Once in the Setup Utility, you can try to change the values that caused the system boot to fail. If the problem persists, load the default values as described below.
Exit Discarding Changes	This option should only be used if you do not want to save the changes you have made to the Setup Utility. If you have made changes to the fields other than system date, system time and password, the system will ask for confirmation when choosing Exit Discarding Changes.
Load Setup Defaults	This option allows you to load the default values for each of the parameters on the Setup menus. You can now select Exit Saving Changes or make other changes before saving the values to Non-Volatile RAM.
Discard Changes	This option allows you to discard the selections you've made and restore the values you previously saved.
Save Changes	This option saves your selections without exiting the Setup Utility. You can then return to other menus and make changes.
Battery Calibration	Selecting this feature enters the battery training utility.



Appendix A

**Frequently Asked
Questions**



Frequently Asked Questions

Q: My screen seems to time out too quickly. I have to constantly hit a key or move the mouse in order to bring it back. How can I adjust the screen time-out?

A: This is part of Windows Power Management. Access Power Management by clicking on Start/Settings/Control Panel/Power Management. Adjust the display time-out by selecting a time next to the Turn off monitor option. You may also select different time-out values for adapter and battery power states.

Q: I've heard that cleaning up and rearranging files on the hard drive will improve the startup speed of my programs. How do I do this?

A: Hard disk maintenance can improve the startup speed of programs. This maintenance includes deleting unnecessary files, and defragmenting, which rearranges data into more efficient groupings. Windows includes utilities for performing these maintenance tasks. In Windows 98, for example, go to Start/Programs/Accessories /System Tools. Run Disk Cleanup to remove unnecessary files, and Disk Defragmenter to defragment the hard drive. For more information, refer to Windows documentation.

Q: The internal fax/modem dial tone sound is too low. How can I increase the volume?

A: There are two methods to adjust the volume of the internal fax/modem dial tone:

Method 1: Double-click the Volume Control icon on the Windows task bar. Adjusting the slide bar under PCSpkr will adjust the volume of the internal fax/modem dial tone.

Method 2: Use the volume control button on the front of the computer.

Q: What kind of external microphone can I use with my notebook computer?

A: You will need to use a self-amplifying mono microphone.

Q: There is feedback noise coming from my speakers. What can I do?

A: Double click on the Speaker icon on the task bar. Then, under Microphone Balance, check the Mute box.

Q: Because of a software problem, I was unable to shut down power normally. I pressed the power button to force a power off, but it didn't work. How can I force a power off?

A: Make sure you press the power button for at least 4 seconds. Normally, this will force a power off. If this does not work, you can shut down the computer by inserting a needle into the reset button pinhole. Refer to Chapter 2, *Bottom View*.



Appendix A — Frequently Asked Questions





Appendix B

Statements



Statements

Federal Communications Commission Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that 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:

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

Shielded interconnect cables and shielded AC power cable must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Declaration of Conformity

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

About The Modem

This equipment complies with Part 68 of FCC rules. On the bottom 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.

The modem jack of this equipment complies with Sub-part F of Part 68 of FCC rules.

The REN is used to determine the quantity of devices that may be connected to the 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 the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs contact the telephone company to determine the maximum REN for the calling areas.

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. However, if advance notice isn't 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 necessary.

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

If trouble is experienced with this equipment, please contact the manufacturer for repair and (or) warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved.

The equipment cannot be used on public coin service provided by the telephone company. Connection to Party Line Service is subject to state tariffs. (Contact the state public utility commission, public service commission or corporation commission for information.)

The Telephone Consumer Protection Act of 1991 marks 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 a 900 number or any other number for which charges exceed local or long-distance transmission charges.) To program this information, refer to the manual of the communication software.

Canadian Department of Communications

This class B digital apparatus meets all requirements of the Canadian Interference-causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

About the Modem

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company.

The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

"The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device. To prevent overloading, the termination on a loop may consist of any combination of device subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100."

Battery Disposal

THIS PRODUCT CONTAINS A LITHIUM-ION OR NICKEL-METAL HYDRIDE BATTERY. IT MUST BE DISPOSED OF PROPERLY. CONTACT LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION ON RECYCLING AND DISPOSAL PLANS IN YOUR AREA.

DIESES PRODUKT IST MIT EINEM LITHIUMION/ODER EINEM NICKELHYDRIDAKKU AUSGESTATTET. DIESER MUß ORDNUNGSGEMÄß ENTSORGT WERDEN. FÜR NÄHERE INFORMATIONEN ÜBER RECYCLING UND SONDERMÜLLVERWERTUNG IN IHREM LANDKREIS, WENDEN SIE SICH AN DIE LOKALEN UMWELTSCHUTZSTELLEN.

CE PRODUIT CONTIENT UNE BATTERIE LITHIUM-ION OU NICKEL-HYDRURE METALIQUE. IL CONVIENT DE S'EN DEBARRASSER DE MANIERE CORRECTE. CONTACTEZ LES ORGANISMES LOCAUX DE PROTECTION DE L'ENVIRONNEMENT POUR DES INFORMATIONS SUR LA PROCEDURE A SUIVRE ET LES POSSIBILITES DE RECYCLAGE DANS VOTRE REGION.

CAUTION FOR ADAPTER

THIS NOTEBOOK COMPUTER IS FOR USE WITH MODEL NO. PA-0060A-002

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

DIESE NOTEBOOK IST ZUM GEBRAUCH MIT MODELL NR. PA-0060A-002

VORSICHT: EXPLOSIONSGEFAHR BESTEHT; WENN DIE BATTERIE UNSACHGEMÄSS EINGESETZT WIRD. ERSETZEN SIE SIE NUR MIT DEMSELBEN ODER EINEM ÄQUIVALENTEN; VOM HERSTELLER EMPFOHLENE TYP. ENTSORGEN SIE GEBRAUCHTE BATTERIEN NUR GEMÄSS HERSTELLERANGABEN).

CET ORDINATEUR UTILISE LE MODELE OR PA-0060A-002

ATTENTION: IL Y A DANGER D'EXPLOSION S'IL Y A REMPLACEMENT INCORRECT DE LA BATTERIE. REMPLACER UNIQUEMENT AVEC UNE BATTERIE DU MEME TYPE OU D'UN TYPE RECOMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU REBUT LES BATTERIES USAGÉES CONFORMEMENT AUX INSTRUCTIONS DU FABRICANT.

BATTERY CAUTION

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

VORSICHTSMASSNAHMEN FÜR BATTERIE

BEI UNSACHGEMÄSSEM EINSETZEN DER BATTERIE BESTEHT EXPLOSIONSGEFAHR!

EXPLOSIONSGEFAHR BESTEHT; WENN DIE BATTERIE UNSACHGEMÄSS EINGESETZT WIRD. ERSETZEN SIE SIE NUR MIT DEMSELBEN ODER EINEM ÄQUIVALENTEN; VOM HERSTELLER EMPFOHLENE TYP. ENTSORGEN SIE GEBRAUCHTE BATTERIEN NUR GEMÄSS HERSTELLERANGABEN.

ATTENTION

IL Y A DANGER D'EXPLOSION EN CAS DE REMPLACEMENT INCORRECT DE LA BATTERIE.

REPLACER SEULEMENT AVEC LE MEME TYPE OU UN TYPE EQUIVALENT RECOMMANDE PAR LE FABRICANT. METTRE AU REBUT LES BATTERIES USAGÉES CONFORMEMENT AUX INSTRUCTIONS DU FABRICANT.

CLASS 1 LASER PRODUCT

LASERSCHUTZKLASSE 1 PRODUKT TO EN60825

CAUTION: THIS APPLIANCE CONTAINS A LASER SYSTEM AND IS CLASSIFIED AS A "CLASS 1 LASER PRODUCT." TO USE THIS MODEL PROPERLY, READ THE INSTRUCTION MANUAL CAREFULLY AND KEEP THIS MANUAL FOR FUTURE REFERENCE. IN CASE OF ANY TROUBLE WITH THIS MODEL, PLEASE CONTACT YOUR NEAREST "AUTHORIZED SERVICE STATION." TO PREVENT DIRECT EXPOSURE TO THE LASER BEAM, DO NOT TRY TO OPEN THIS ENCLOSURE.

VORSICHT: DIESES GERÄT ENTHALT EIN LASER-SYSTEM UND IST ALS "LASER PRODUCT DER KLASSE 1" KLASSIFIZIERT. FÜR DEN RICHTIGEN GEBRAUCH DIESES MODELLS DIE BEDIENUNGSANLEITUNG SORGFÄLTIG DURCHLESEN UND ALS REFERENZ AUFBEWAHREN. FALLS PROBLEME MIT DIESEM MODELL AUFTRETEN, DIE NÄCHSTE "AUTORISIERTE SERVICES VERTRETUNG" BENACHRICHTIGEN. UM EINEN DIRKTEN KONTAKT MIT DEM LASERSTRAHL ZU VERMEIDEN, SOLLTE DAS GEHÄUSE NICHT GEÖFFNET WERDEN.

ATTENTION: CET APPAREIL CONTIENT UN SYSTEME LASER ET EST CLASSIFIE COMME "CLASS 1 LASER PRODUCT". POUR UTILISER PROPREMENT CE MODELE, LIRE AVEC ATTENTION LE MANUEL D'INSTRUCTION ET GARDER CE MANUEL COMME REFERENCE FUTURE. EN CAS DE PROBLEME AVEC CE MODELE, CONTACTER LA "STATION DE SERVICE AUTORISEE" LA PLUS PROCHE. POUR EVITER UNE EXPOSITION DIRECTE AU RAYON DU LASER, NE PAS ESSAYER D'OUVRIR LE BOITIER.

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