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Notebook Computer User Guide

Original Issue: 2003/3

This manual guides you in setting up and using your new notebook computer. Information in this manual has been carefully checked for accuracy and is subject to change without notice.

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Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

Radio and television interference

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:

- 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.

FCC RF Radiation Exposure Statement:

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The EUT meets the requirement that it be operated in a manner that ensures the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines (1.1307, 1.1310, 2.1091 and 2.1093)

FCC RF Radiation Exposure Statement:

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used in this notebook computer are located at the upper edge of the LCD screen. During the normal operating conditions, maintain at 20cm separation distance between the radiator to the near by person.

The EUT meets the requirement that it be operated in a manner that ensures the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

Canadian Department of Communications Compliance Statement

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Shielded Cables Notice

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Peripheral Devices Notice

Only peripherals (input/output devices, terminals, printers, etc) certified to comply with Class B limits may be attached to this equipment. Operation with

non-certified peripherals is likely to result in interference to radio and TV reception.

CD-ROM Notice

The CD-ROM and Combo drive are Class One Laser Product.

Caution

Changes or modifications not expressly approved by the manufacturer may void the user's authority, which is granted by the Federal Communications Commission, to operate this computer.

Use Conditions

This part complies with Part 15 of the FCC Rules. Operation is subject to the following 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.

Information of the responsible party for a DoC product

Product name: Notebook Built-in 2.4GHz Wireless LAN

Model No.:MB02

Technical Support:

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About Your Notebook Computer

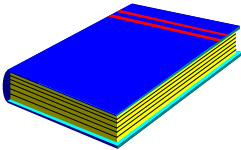


Congratulation for having purchased your new Professional Multimedia Notebook. This notebook incorporates the strongest features, which integrate the latest technologies available in the notebook industry.

Your new notebook computer not only drives today multimedia applications but also be ready for tomorrow exciting new software.

This Professional Multimedia Notebook is a freedom, flexibility, and functionality notebook which users are demanding for a long time.

About Your User Guide



Welcome to your Professional Multimedia Notebook User Guide. This manual covers everything you need to know in learning how to use your computer. This manual also assumes that you know the basic concepts of Windows and the PC. You will start doing a lot of great and fun things with your computer.

This manual is divided into eight chapters.

- Chapter 1 gives introduction on your computer features.
- Chapter 2 provides step-by-step instructions to help you begin using your notebook as quickly as possible.
- Chapter 3 describes how to operate the standard features of your computer.
- Chapter 4 illustrates how to integrate video and sound chips into impressive presentation.
- Chapter 5 illustrates how to connect external device to your computer.
- Chapter 6 explains how to use the System BIOS Setup program.
- Chapter 7 explains how to use the internal module options of your computer.
- Chapter 8 offers instructions on how to care and maintain your notebook.

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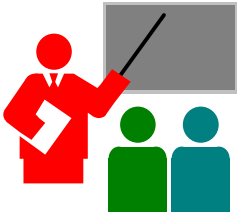
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1 Introduction



Your Notebook PC is a fully Windows compatible portable personal computer. With the latest features in mobile computing and multimedia technology, this notebook makes a natural traveling companion. With leap of technology and compact, your Notebook PC runs on a whole wide range of general business, personal productivity, entertainment, and professional applications. It is ideal for use in the office, at home, and on the road.

Your Notebook PC makes an ideal choice for use in the office, the schoolroom, at home, on the road and all other occasions.

1.1 Feature Highlight

Before we go to identify each part of your Notebook PC, we will first introduce you to other notable features of your computer.

This notebook uses the platform with certified Intel® Centrino™ Mobile Technology. It supports the new Intel® Pentium® M processor, the core-logic architecture that absolutely fits the processor and the built-in excellent Intel® PRO/Wireless solution.

The Centrino™ Mobile Technology is a new concept of N/B which is capable of power-saving long operation time and easy accessing wireless connection. The CPU is specialized design for power saving feature with adequate speed. You can get the same powerful performance as high speed Intel Pentium® 4, yet without consuming so much energy.

Processing Unit

- Your notebook runs on Intel Pentium® M microprocessor which is integrated with 1024 KB L2 Cache. Check with your dealer on the CPU type and speed.
- Fully compatible with an entire library of PC software based on operating systems such as Windows XP.

Wireless LAN

Intel® Pro/Wireless network solution

Memory

This notebook provides two memory slots for installing DDR SDRAM 144-pin SODIMM modules up to 2048MB using 128MB, 256MB, 512MB or 1024MB DDR SDRAM modules

PCMCIA

Provides one PCMCIA slot that allows you to insert one Type II card

IEEE 1394

Provides one IEEE 1394 port for fast data transmission by external hard disk or digital video (DV)

USB 2.0

Provides three USB 2.0 ports for fastest I/O data transmission

Graphic System

Provides blazing graphics controller embedded in Intel Montara-GM chipset

PCI Local Bus Architecture

- 32-bit PCI Enhanced IDE optimizes the data transfer between the CPU and hard disk drives. Support ultra DMA 100 PIO Mode up to PIO Mode 4, bus mastering for LBA Scheme.
- 32-bit PCMCIA CardBus PCI technology that is also backward compatible with 16-bit PC cards.

Audio System

Full-duplex 16-bit stereo audio system output. Sound Blaster and Sound Blaster Pro compatible.

Flash BIOS

Flash BIOS allows you to easily upgrade the System BIOS using the Phoenix Flash utility program.

Power and System Management

- Integrated SMM (System Management Mode) on system chipset that shuts down components not in use to reduce power consumption. To execute power management, you can set up the parameter in Power Options properties by pointing your mouse to Control Panel of Windows.
- Suspend hot-key allows you to suspend the system operation instantly and resume at the press of the power button.
- System Password for User and Supervisor included on the BIOS SETUP Program to protect unauthorized use of your computer.

1.2 Unpacking the Computer

Your computer comes securely packaged in a sturdy cardboard shipping carton. Upon receiving your computer, open the carton and carefully remove the contents. In addition to this User Guide, the shipping carton should also contain the following items:

- ☒ The Notebook Computer
- ☒ An AC Adapter and AC Power Cord
- ☒ Li-Ion Battery Pack
- ☒ Utility Diskettes/CD

☒ Hardcopy User Guide/E-book

☒ Quick Setup Manual

Carefully inspect each component to make sure that nothing is missing and/or damaged. If any of these items is missing or damaged, notify your dealer immediately. Be sure to save the shipping materials and the carton in case you need to ship the computer or if you plan to store the computer away sometime in the future.

1.3 The Inside of the Notebook

The notebook computer is compact with features on every side. First, look at the inside of the system. The following sections describe inside features.



- 1. Color LCD Display
- 3. Easy Buttons
- 5. Status LED Indicator
- 8. Keyboard

- 2. 6. Built-in Stereo Speakers
- 4. Integrated Microphone
- 7. Power On/Resume Button
- 9. Touchpad Pointing Device

- Color LCD Display

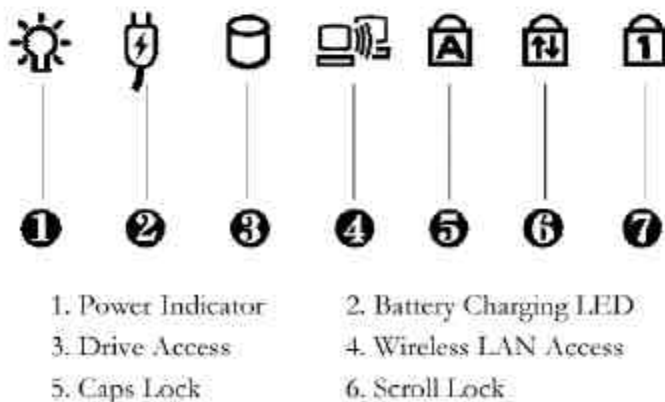
The notebook computer comes with a color LCD that you can adjust for a comfortable viewing position. The LCD can be 14.1" TFT color LVDS with 1024x768 XGA (Extended Graphics Array) or 1400x1050 SXGA+ resolution panels. The features of the Color LCD Display are summarized as follows:

- ➔ TFT color LVDS with 14.1" 1024x768 XGA or 14.1" 1400x1050 SXGA+ resolution panels.
- ➔ Capable of displaying 16M colors (32-bit true color) on either size panels.
- ➔ LCD display control hot-keys allows you to adjust the brightness of the LCD.
- ➔ Simultaneous display capability for LCD and external desktop computer monitor.
- **Built-in Stereo Speakers**
Integrated left and right mini stereo speakers located at the bottom of LCD panel for sound and audio output for your multimedia presentations or listening pleasure.
- **Easy Buttons**
There are two easy buttons used for accessing Internet and e-mail functions instantly and easily. Description of the easy buttons appears in the latter part of this section.
- **Integrated Microphone**
Integrated mono microphone for instant voice recording and simultaneous voice conversation.
- **Status LED Indicator**
Keeps you informed of your notebook computer's current power status and operating status. Description of the status icons appears in the latter part of this section.
- **Power On/Resume Button**
Switches the computer power on and off, or resumes whenever it is in Suspend mode.
- **Keyboard**

- Standard QWERTY-key layout and full-sized 82/84 keys keyboard with Windows system hot-keys, embedded numeric keypad, 7 hot keys, inverted "I" cursor arrow keys, and separate page screen control keys.
- Wide extra space below the keyboard panel for your wrist or palm to sit-on comfortably during typing.
- Touchpad Pointing Device
Microsoft and IBM PS/2 mouse compatible with three select buttons as one Scroll button and two Touchpad click buttons. These three buttons array below the Glide pad. The middle one is located with the Scroll button that lets you execute the scroll page function. The two click buttons located at each side support tapping selection and dragging functions. These buttons work like a standard computer mouse. Simply move your fingertip over the Glide Pad to control the position of the cursor. Use the selection buttons below the Glide Pad to select menu items.

NOTEBOOK STATUS ICONS

The Status LED Panel keeps you informed of the notebook's current power and operating status. Each LED is marked with an icon to designate the system status.



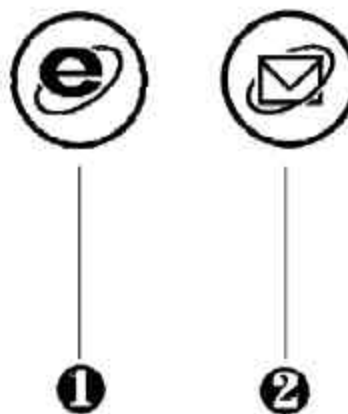
7. Num Lock

- **Power Indicator**
Lets you know that power to the system is turned on. This LED is positioned so that you can see the power state whether the LCD panel is opened or closed.
 - ➔ Lights green when the system is powered on
 - ➔ Lights green blinking when the system is in Suspend to RAM.
- **Battery Charging LED**
Lights to indicate battery in charging status.
 - ➔ Lights green to indicate that the battery is in charging.
 - ➔ Lights off to indicate the battery is fully charged or no battery installed.
- **Drive Access**
When LED in green light indicates that the system is accessing either the Hard Disk or Combo drive.
- **Wireless LAN access**
When LED in green light indicates that the wireless LAN module is installed. When LED in blinking green light indicates that the system is accessing or retrieving data by wireless device.
- **Caps Lock**
When LED in green light indicates that the Caps Lock key on the keyboard is activated. When activated, all alphabet keys typed in will be in uppercase or capital letters.
- **Scroll Lock**
When LED in green indicates that the Scroll Lock key on the keyboard is activated. The Scroll Lock key has different functions depending on the software you are using.

- Num Lock

When LED in green light indicates that the Num Lock key on the keyboard is activated. When activated, the embedded numeric keypad will be enabled.

THE FUNCTION OF EASY BUTTONS



1. Internet Button

2. E-Mail Button

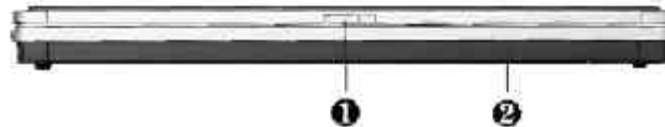
- Internet Button

This technology is designed specifically for providing a very convenient way in connecting Internet only by pressing Internet button as shown in the graphics. For more understanding and interesting, you can refer Section 2.5 to recognize the driver installation procedures in activating Internet button.

- E-mail Button

This is the most convenient way to access the outlook 98/2000/2002... utility just by pressing this button. You can simplify several procedures in entering into Outlook 98/2000/2002... environment.

1.4 The Front Side of the Notebook



1. Cover Switch

2. Battery

- **Cover Switch**
The cover (LCD panel) is locked when it is closed. Slide the button right aside to release the latch for opening the cover of the computer.
- **Battery**
The battery provides the power for the N/B when there is no AC power available. Please refer to chapter 2.1 for how to attach and detach the battery.

1.5 The Rear Side of the Notebook

The system ports at the back of your notebook computer can connect various devices. Each port is described as followings.



- | | | |
|--------------------|------------------|-----------------|
| 1. Air-Outlet Vent | 2. DC Power Port | 3. Air Inhalant |
| 4. Monitor Port | 5. USB Port | 6. LAN Port |
| 7. Modem Port | | |

- **Air-Outlet Vent**
Emits the heat out of your computer and keeps it within operating temperature.
- **DC Power Port**
Lets you connect the AC power adapter in supplying continuous power to your notebook and recharging the battery.
- **Air Inhalant**
Inhale the air into your computer to keep it within operating temperature.
- **Monitor Port**
Lets you attach an external monitor or projector for wider display. You can run the LCD display and the external monitor simultaneously or switch it to monitor only using the display hot-key.
- **USB Port**
The Universal Serial Bus (USB) port allows you to connect up to 127 USB-equipped peripheral devices (for example, printers, scanners and so on) to your notebook computer.
- **LAN Port**
An internal 10Base-T/100Base-TX LAN module connects your computer to other computers/networks through a local area network (LAN).
- **Modem Port**
A 56K internal fax/data modem is installed. It keeps you connected to the outside world through networks.

1.6 The Left Side of the Notebook

The left side of your notebook computer provides the features shown in the following figure.



1. Microphone Jack
3. IEEE 1394

2. Headphone Jack
4. PC Card Slot

Left Side Features

- Microphone Jack
Allows you to connect an external microphone for monophonic sound recording directly into your notebook computer.
- Headphone Jack
Lets you plug in a stereo headphone, powered speakers, or earphone set with 1/8 inch phono plug for personal listening.
- IEEE 1394
IEEE 1394 port is a high speed I/O port that can transfer high levels of data in real-time, such as external hard disk, Digital Video Camera.
- PC Card Slot
 - ➔ Lets you connect various PC cards such as memory card
 - ➔ Supports both 3V, 5V 32-bit CardBus and 16-bit PC cards.

1.7 The Right Side of the Notebook

The right side of the notebook computer offers the features shown in the following figure.



1. CD-RW/DVD Combo Drive
2. Locking Device Keyhole

Right Side Features

- **CD-RW/DVD Combo Drive**
Allows you to load and start programs from a compact disc (CD) or a digital video disc (DVD) and play conventional audio CDs. It also can make CD by using CD-R or CD-RW.
- **Locking Device Keyhole**
Lets you attach a Kensington security system or a compatible lock to secure your notebook computer.

1.8 The Underside of the Notebook

The bottom of the notebook computer offers the following features.



1. Battery Release Latch
2. Battery Bay
3. Hard Disk Compartment

2. Battery Bay

Bottom of the System

- **Battery Release Latch**
Push the latch to the left end to remove the battery pack.
- **Battery Bay**
Equipped with a choice of Lithium-Ion (Li-Ion) battery pack.
- **Hard Disk Compartment**
Open this cover of this compartment to replace with other Hard Disk Drive. Please refer to Chapter 7 for how to replace it.

1.9 Notebook Accessories

AC Adapter

The AC Adapter supplies external power to your notebook computer and charges the internal battery pack simultaneously. The AC adapter has an auto-switching design that can connect to any 100VAC ~ 240VAC power outlets. You just change the power cord if you are going to use your notebook in other countries with different connector outlets.

When you connect the AC adapter, it charges the battery whether or not the notebook computer is powered on.

Battery Pack

Aside from the AC adapter, your computer can also be powered through the internal battery pack. The battery pack uses rechargeable Lithium-Ion (Li-Ion) battery cells that provide long computing hours when fully charged and power management enabled. You should always leave the battery inside your computer even when using the AC adapter as it also acts as a back-up power supply in case power from the AC adapter is cut off. It is also very important to have the battery pack always charged to prevent battery cell degradation.

2 Getting Started



Your Notebook is designed and pre-configured for easy setup and use. This chapter describes the installation steps you should follow to get the notebook up and running as quickly as possible. Contact your dealer if they have pre-installed all the needed drivers to fully operate your computer or if there is an update on the driver installation of the notebook.

2.1 Using the Battery Pack

The notebook is designed to operate with one of the following power sources:

- With AC power using the AC adapter connected to an electrical outlet.
- With a Lithium-Ion (Li-Ion) battery pack.

You should use the AC adapter whenever it is possible, relying on the battery pack only when AC power is unavailable.

Before you use your notebook computer, install and recharge the battery pack first. The rechargeable Li-Ion battery pack allows you to operate the notebook without an external power source. When you connect the AC power adapter, the battery immediately starts to recharge. Normal battery charging time is 2 hours for Lithium-Ion (Li-Ion) battery pack when your computer is turned off.

For maximum battery performance, fully discharge the battery first before recharging it when you start to use it first time. To do so, unplug the AC adapter, turn off power management features (through Setup and Windows), and turn on the system. Once the battery is fully discharged, plug in the AC adapter and recharge the battery. You can also do it by using the **Battery Refresh** function in BIOS setup menu that is described on chapter 6.6

If you do not discharge the battery completely, it fails to accept a full recharge.

 *Li-Ion battery is vulnerable, do not charge it with other power adapter, or it may cause fire or explosion.*

Installing the Battery Pack

This notebook provides the most convenient way to install the battery pack into your computer. With the extended nose directed toward the compartment, insert and push the battery pack.



Removing the Battery Pack

To remove the battery pack, slide the latch to the end of left side to pop-out the battery pack, and then take out the battery pack with your finger.



Replacing the Battery Pack

When your notebook estimates that the battery only has enough charge to continue for a few minutes, it will alert you with a battery low warning beep. If you are consuming a lot of power by using the audio system, the PCMCIA slots, the hard disk drives, and Combo drive, your notebook might run out of charge much sooner than you expect. You should always respond to the battery low indication by connecting to AC power or turning off your notebook, or suspending your notebook to disk. If you do not do so, the notebook will automatically suspend to disk and turn off. The contents of the memory will store in the hard disk drive. You will be unable to restart the notebook until you have connected to the AC adapter or installed a charged battery. To replace the battery pack, refer to the previous sections on "Installing the Battery Pack" and "Removing the Battery Pack."

 *For Window Me/2000/XP, the suspend mode (Hibernate or Standby) can be chosen at Power Options of Windows's Control Panel)*

 *Be sure to save your data before replacing the battery pack or connecting the AC adapter. Failure to do so can result in data loss.*

EXTENDING BATTERY LIFE

It is important to be aware of the simple things for extending the life of the system main battery while you are on the road. You should find a working place where the external lighting is not too bright and turn down the screen brightness. Also, you can choose the available mode on the Power Management item of the Control Panel in Windows.