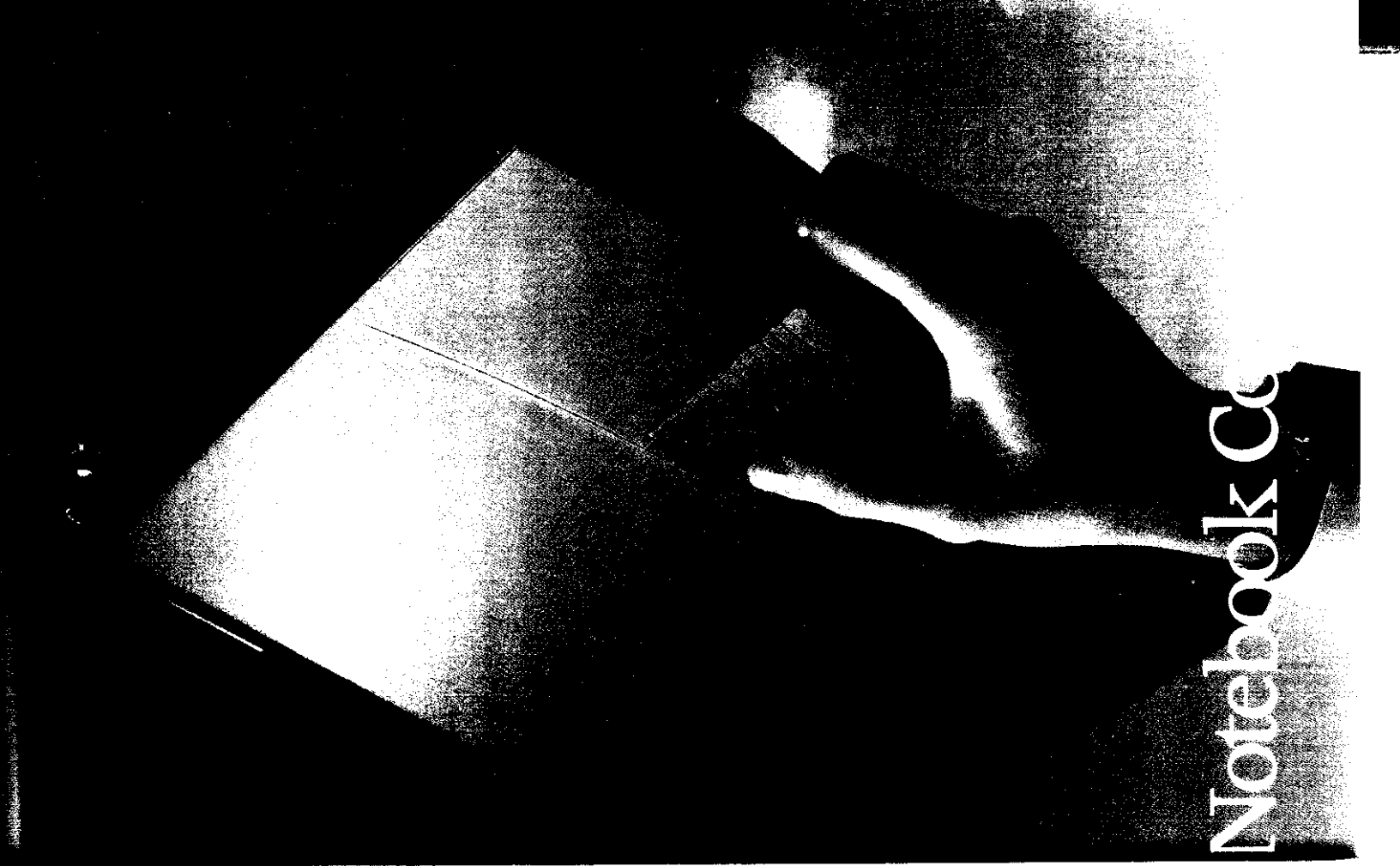




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Notebook Co

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Notebook Computer User's Guide
Original Issue: March, 1998

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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However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 device and receiver
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

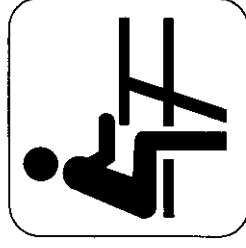
Shielded Cables Notice

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.

About Your Notebook Computer

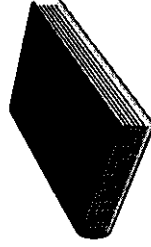


Congratulation for having purchased your new Professional Multimedia Notebook. This notebook incorporates the strongest features which integrate the latest technologies available in the notebook industry.

Your new notebook computer not only drives today's multimedia applications but also be ready for tomorrow's 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's Guide



Welcome to your Professional Multimedia Notebook User's 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 DOS, 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 device bay and internal module options of your computer.

Chapter 8 offers instructions on how to care and maintain your notebook.

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GLOSSARY I

1 Introduction



Your Notebook PC is a fully IBM compatible portable personal computer. With the latest features in mobile computing and multimedia technology, this notebook even outperforms today's most desktop computers. Lightweight 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.

Designed with an advanced modular architecture, your Notebook PC also allows you for several levels of customization and expansion that are previously available only on desktop PCs.

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.

Processing Unit

- Your notebook runs on Intel Pentium MMX microprocessor, Intel PentiumII IMM CPU, and other compatible processor like AMD K6. 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 MS-DOS, Windows 3.1, Windows for Workgroups 3.11, Windows 95, OS/2, SCO Unix, and Windows NT. It also runs on future versions of Windows.

Memory

Provides two memory slots for installing 144-pin SODIMM modules up to 128MB using 16MB, 32MB, and 64MB modules or 192MB using 16MB, 32MB, 64MB, and 128MB modules (the 128MB modules should be complied with 430 Pentium processor with MMX technology TX chip). Supports both SDRAM and EDO RAM type memory.

PCMCIA

Provides two PCMCIA slots that allows you to insert either one Type II and one Type III cards, or two Type II cards at the same time.

External Cache Memory

For performance enhancement, adequate amount of secondary cache is a must in utilizing the Pentium CPU power. Your computer provides an external 512KB of secondary (L2) pipelined-burst cache memory.

PCI Local Bus Architecture

- 128-bit PCI video local bus and Windows graphics accelerator with 2MB RAM. Supports Zoomed Video (ZV) Port technology for smooth full-screen motion picture playback capabilities.
- 32-bit PCI Enhanced IDE optimizes the data transfer between the CPU and disk drives. Support disk drives with ultra DMA and PIO Mode up to PIO Mode 4.
- 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 with wavetable function and Plug-and-Play features. Sound Blaster and Sound Blaster Pro compatible.

Flash BIOS

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

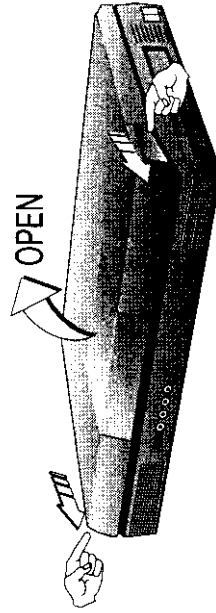
Power and System Management

- Integrated SMM/SMI on system chipset that shuts down components not in use to reduce power consumption. Power Management user control on System BIOS SETUP allows you to activate and deactivate power saving features.

- Auto 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 or your computer.

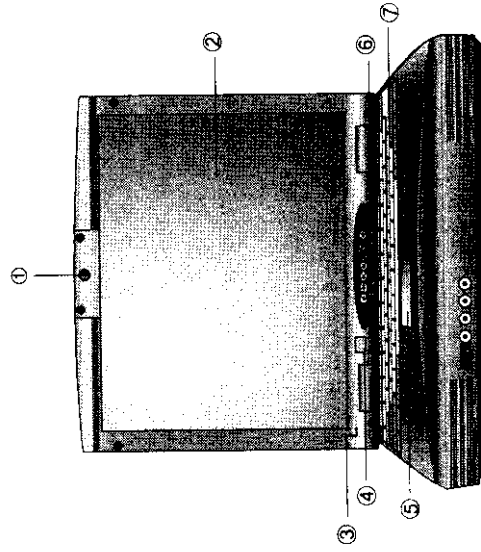
1.2 Opening the Display Cover

Open your computer display cover by sliding forward the display latches found on the left and right edges. Raise the cover and tilt the display screen to your desired viewing angle.



1.3 Inside the Notebook

After opening the display cover, you will find the following parts inside the notebook.



- ① CCD Camera Module
- ② Color LCD Display
- ③ Integrated Microphone
- ④ Power On/Resume Button

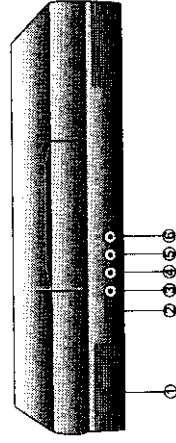
- ⑤ Touchpad Pointing Device
- ⑥ Status LED Indicator Panel
- ⑦ Keyboard

- CCD Camera Module
 CCD Camera or Camcorder digital camera is built-in and can be used for videoconferencing. It also includes video capture and recording features for editing and playback.

- **Color LCD Display**
 - Flicker-free DSTN or TFT color LCD (liquid crystal display) with 1024x768 XGA or 800x600 SVGA resolution panels. TFT screens provide sharper display compared to DSTN screens but cost more.
 - Capable of displaying 64K colors (16-bit high color) on either SVGA or XGA LCD panels.
 - LCD display control hot-keys allow you to adjust the brightness and contrast of the LCD.
 - Simultaneous display capability for LCD and external desktop computer monitor.
 - LCD display can be upgraded from 12.1" DSTN/TFT or 13" DSTN to 13.3" TFT and 14.1" TFT.
- **Integrated Microphone**
Integrated mono microphone for instant voice recording and simultaneous voice conversation.
- **Power on/Resume Button**
Switches the computer power on and off, or resumes whenever it is in Suspend mode.
- **Touchpad Pointing Device**
Microsoft and IBM PS/2 mouse compatible with two select buttons. Supports tapping selection and dragging function.
- **Status LED Indicator Panel**
Informs you of the activity and power status in your computer.

- **Keyboard**
 - Full-sized 86/87 keys keyboard with Windows 95 hot-keys, embedded numeric keypad, 12 function keys, inverted "T" 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.

1.4 The Front Side of the Notebook

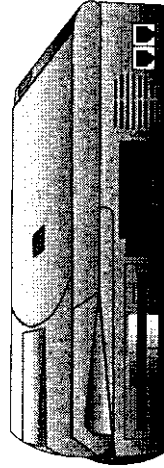


- ① Audio Speaker ④ Stereo Line-out Jack
- ② Volume Controller ⑤ Stereo Line-in Jack
- ③ Headphone Jack ⑥ Microphone Jack

- **Audio Speakers**
Integrated left and right mini stereo speakers for sound and audio output.
- **Thumb Wheel Volume Control**
Allows you to control the speaker volume.
- **Headphone Jack**
Lets you plug in a headphone or earphone set with 1/8 inch phono plug for personal listening.

- **Stereo Line-Out Jack**
Lets you connect an external amplified speaker such as a two-way stereo speaker, or headphones with 1/8 inch stereo phono plug.
- **Stereo Line-In Jack**
Lets you connect an external audio device such as CD player, a tape deck, or a synthesizer as an input source.
- **Microphone Jack**
Lets you connect an external microphone to record sound directly into your notebook computer or have voice conversation.

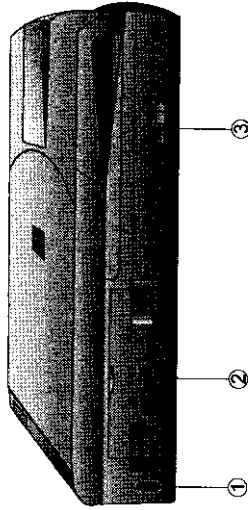
1.5 The Right Side of the Notebook



- ① Device Bay 1
- ② PCMCIA Slot
- ③ Cooling Fan Vent
- ④ RJ-11 Modem Jack
- ⑤ RJ-45 LAN Jack

- **Device Bay 1**
This ultra-versatile modular bay offers several configuration flexibility. You can insert the following device packs:
 - (1) FDD – standard option
 - (2) LS-120 Drive
 - (3) 2nd HDD
 - (4) 2nd Battery PackThe standard device bay is the 3.5" 1.44 MB FDD.
- **PCMCIA Slot**
 - Lets you connect various PC cards such as Modem cards, Ethernet LAN cards, and SCSI cards.
 - Double-deck PCMCIA slots that support two Type II PC cards, or one Type II and one Type III PC cards at the same time.
 - Supports both 5 V and 3V 32-bit CardBus and 16-bit PC cards including PC cards with ZV function.
- **Cooling Fan Vent**
Emits the heat out of your computer and keeps it within operating temperature.
- **RJ-11 Modem Jack**
This jack connects to the phone line and can only be used when the optional internal 33.6/56Kbps modem is installed.
- **RJ-45 LAN Jack**
This jack connects to the network line and can only be used when you have the optional internal LAN 10/100Base-T module installed.

1.6 The Left Side of the Notebook

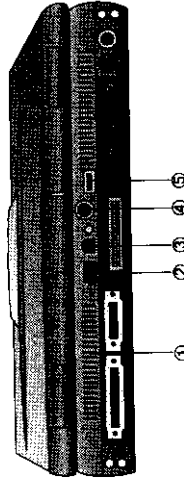


- ① Kensington Lock
- ② Battery Compartment
- ③ Device Bay 2

- **Locking Device Keyhole**
Lets you attach a Kensington security system or a compatible lock to secure your notebook computer.
- **Battery Compartment**
Stores the Nickel Metal-Hydride (NiMH) or Lithium-Ion (Li-Ion) battery pack for off-the-cord operation or battery recharging.
- **Device Bay 2**
This ultra-versatile modular bay offers several configuration flexibility. You can insert the following device packs:
 - (1) CD-ROM Drive – standard option
 - (2) DVD-ROM Drive
 - (3) LS120 Drive
 - (4) FDD
 - (5) 2nd HDD

⚠ *You cannot insert the same drive pack on both device bay 1 and 2.*

1.7 The Rear Side of the Notebook

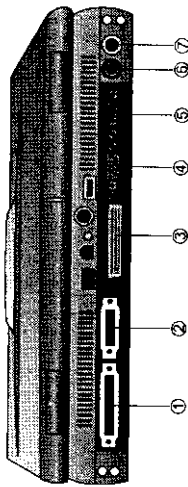


- ① Air Vent
- ② IR Port (FIR/SIR)
- ③ DC-In Port
- ④ PS/2 Port
- ⑤ USB Port

- **Air Vent**
Allows air to flow inside the computer.
- **IR Port (FIR/SIR)**
Wireless data transfer of files between your notebook computer and an IR-equipped device or notebook computer. You can also print to an IR-equipped printer without needing to attach the printer cable. The Fast IR (FIR) mode provides up to 4Mbps of data transfer rate.
- **DC-In Port**
Lets you connect the AC power adapter or Car Cigarette power cable in supplying continuous power to your notebook and recharging the battery.
- **PS/2 Port**
Lets you connect an external PS/2-style mouse, PS/2-style keyboard, or PS/2-style numeric keypad to the system. With an optional Y-cable adapter, you also can connect any combination on two of these devices simultaneously.

- **USB (Universal Serial Bus) Port**

Allows you to connect and daisy-chain various USB peripheral devices such as printer, monitor, or scanner to your notebook.



- ① Printer Port (LPT1)
- ② Game/MIDI Port
- ③ Docking Port
- ④ Serial Port (COM1)
- ⑤ VGA Port (CRT)
- ⑥ TV Out Port (AV)
- ⑦ TV Out Port (S-Video)

- **Printer Port (LPT1)**

Lets you connect a 25-pin parallel device such as printer, pocket LAN adapter, ZIP storage drive, or data cable for file transfer.

- **Game/MIDI Port**

Lets you connect an external standard PC game joystick or MIDI device.

- **240-Pin Docking Port**

Lets you connect to the notebook Port Replicator or MINI docking station for full desktop function.

- **Serial Port (COM1)**

Lets you connect a 9-pin external pointing device such as a high-speed modem, mouse, or other serial devices.

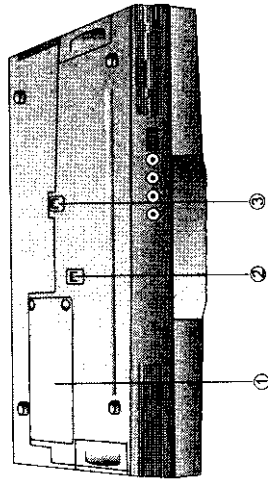
- **VGA Port (CRT)**

Lets you attach an external CRT monitor for wider display. You can run the LCD display and the external CRT monitor simultaneously or switch it to CRT only using the display hot-key.

- **TV Out Port (AV)**
Provides one AV (RCA) jack for VGA output display to any NTSC/PAL television set.

- **TV Out Port (S-Video)**
Also provides one S Video jack for VGA output display to any NTSC/PAL television set.

1.8 The Underside of the Notebook



- ① Memory Compartment
- ② Device Bay 1 Latch
- ③ Device Bay 2 Latch

- **Memory Compartment**

- Provides two 64-bit 144-pin memory slots for inserting and upgrading the system memory.
- Supports Fastpage, EDO, and SDRAM SODIMM modules.

- **Device Bay 1 latch**

Lets you remove any device installed in device bay 1 by sliding the latch and pulling the device pack.

- **Device Bay 2 latch**

Lets you remove any device installed in device bay 2 by sliding the latch and pulling the device pack.