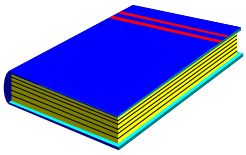
# Table of Contents

# 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 | explans how to use the external PortBar and internal module options of your computer. |
| Chapter 8 | offers instructions on how to care and maintain your notebook. |

Notebook Computer User Guide
Original Issue: February, 2000

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.



## Trademarks

Product names used herein are for identification purposes only and may be the trademarks of their respective companies.

IBM, AT, PS/2, and Token Ring are registered trademarks and OS/2 is a trademark of International Business Machines Corporation.

Microsoft, MS-DOS, Windows, and Windows Sound System are trademarks of Microsoft Corporation.

Intel and Intel Pentium is a registered trademark of Intel Corporation.

Sound Blaster, Sound Blaster Pro are trademarks of Creative Technology.

All other brands or product names mentioned in this manual are trademarks or registered trademarks of their respective companies.

## FCC Information to User

### Safety and Care Instructions

No matter what your level of experience with computers, please make sure you read the safety and care instructions. This information can help protect you and your computer from possible harm.

### Radio and television interference

**Warning:** Use the specified shielded power cord and shielded signal cables with this computer, so as not to interfere with radio and television reception. If you use other cables, it may cause interference with radio and television reception.

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 not cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage 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.

You may find helpful the following booklet, prepared by the Federal Communications Commission: Interference Handbook (stock number 004-000-00345-4). This booklet is available from the U.S. Government Printing Office, Washington, DC20402

**Warning:** The user must not modify or change this computer without approval. Modification could void authority to this equipment.

## Canadian Department of Communications Compliance Statement

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

## Avis de conformite aux normes du ministére des Communications du Canada

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

## 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 is a Class One Laser Product.

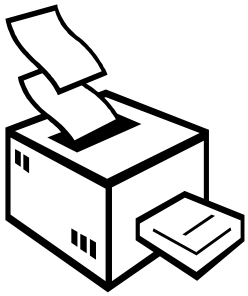
## Caution

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.

# APPENDIX A
# Hardware System Information



This appendix gives information on the technical and hardware specifications of your computer. Please note that the information mentioned here may not be exactly the same with your computer as specification is subject to change without notice or modifying this manual.

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.

# A.1 System Specification

## PROCESSOR UNIT

- Intel Mobile Pentium !!! µPGA2
- Supports CPU clock speed above 450MHz
- 256KB integrated L2 cache for Pentium !!!/128KB integrated L2 cache for Celeron

## SYSTEM MEMORY

- Two 64-bit 144-pin memory slots
- User-upgradable to maximum 256MB using 144-pin SODIMM 32MB, 64MB, and 128MB module
- PC100 SDRAM modules

## LCD DISPLAY

- XGA (1024x768) or SVGA (800x600) Color LCD
- Maximum 16M true colors on all LCD display

## VGA SYSTEM

- 32-bit AGP Local Bus VGA Accelerator (32-bit internal)
- Includes Zoomed Video (ZV) Port Technology for supporting ZV PCMCIA cards

- Simultaneous LCD and external monitor (CRT) display
- Maximum 16 million colors on CRT only display at 800x600 resolution (Non-Interlaced)
- Maximum 1024x768 resolution on CRT display at 16M colors

## DISK DRIVES

- 32-bit PCI Enhanced IDE interface with LBA mode
- 24X-speed Enhanced IDE bootable CD-ROM drive module
- Built-in and user-upgradable 2.5-inch IDE hard drive
- Optional DVD-ROM drive that can be swapped with CD-ROM
- Optional LS-120 drive that can be swapped with FDD

## AUDIO SYSTEM

- Full-duplex 16-bit stereo audio with wavetable support and Plug-and-Play features
- H/W Audio Sound Blaster 16 compatible
- Built-in dual speakers
- Integrated full-duplex microphone
- Audio input jacks for microphone (MIC) and stereo device (Line-In)
- Audio output jack for external speaker or headphone (Line-Out)
- Earphone or headphone jack for audio output
- Built-in Thumb Wheel Volume Control

## PCMCIA

- 32-bit CardBus PCI Local Bus PCMCIA controller
- Double-deck PCMCIA slots supports 2 x Type II PC card at the same time or 1 x Type III PC Card
- Supports Zoomed Video (ZV) Cards, 32-bit Cardbus Cards, and 16-bit PC Cards

## GLIDE PAD

- Integrated Glide Pad (PS/2 mouse) pointing device with palm-rest typing surface

## KEYBOARD

- Full-sized 86/87-keys keyboard with Windows 95/98 hot-keys, inverted T-cursor keys, 12 function keys, and embedded numeric keypad
- Provides international language keyboard

## FLASH BIOS

- 512K Flash ROM BIOS for easy BIOS upgrade

## I/O PORTS

- 2 x Universal Serial Bus (USB)
- 1 x 9-pin RS-232 Serial (COM1)
- 1 x 25-pin Parallel (LPT1)
- 1 x 15-pin VGA (CRT)

### INFRARED PORT

- 1 x SIR port at 115.2Kbps

### AC/DC POWER SUPPLY ADAPTER

- Universal auto-switching 60W (100V~240V) adapter

### BATTERY

- Rechargeable 8 Cells NiMH or Li-ion battery pack with Smart Battery function
- Over 2 hours of usage (when run Battery Mark2.0 diagnostic program)
- 2.5 ~ 3.5 hours quick charge (computer turn off)

### WEIGHT AND DIMENSION

- 12" (W) x 9.8" (D) x 1.5" (H)
- 6.6 lbs (Max Target)

## A.2 IRQ Usage Summary (Windows 95/98)

| IRQ | Used Device |
|---|---|
| IRQ0 | System Timer |
| IRQ1 | Keyboard |
| IRQ2 | Cascade |
| IRQ3 | Lan/Modem |
| IRQ4 | Serial Port Communications Port [COM 1] |
| IRQ5 | Audio/VGA/USB |
| IRQ6 | Floppy Disk Drive |

| IRQ | Used Device |
|---|---|
| IRQ7 | Parallel Port |
| IRQ8 | RTC Alarm |
| IRQ9 | Reserve for ACPI OS |
| IRQ10 | FIR |
| IRQ11 | Reserve for PCMCIA Card |
| IRQ12 | PS/2 Mouse |
| IRQ13 | FPU |
| IRQ14 | Hard Disk Drive |
| IRQ15 | CD-ROM or DVD |

## A.3 DMA Channel Usage Summary

| DMA Channel | Used Device |
|---|---|
| DMA0 | FIR (Modem/LAN) |
| DMA1 | ECP |
| DMA2 | Floppy Disk |
| DMA3 | Audio |
| DMA4 | [Cascade] |
| DMA5 | Unused |
| DMA6 | Unused |
| DMA7 | Unused |

# A.4 I/O Port Usage Summary (Window 95/98)

| I/O Address | Used Device |
|---|---|
| 000 ~ 01F | 8237-1 |
| 020 ~ 021 | 8259-1 |
| 040 ~ 05F | 8254 |
| 060 ~ 06F | Keyboard Controller |
| 070 ~ 07F | RTC & NMI Mask |
| 080 ~ 08F | DMA Page Registers |
| 092 | System Control Port |
| 0A0 ~ 0A1 | 8259-2 |
| 0B2 | Advanced Power Management Control Port |
| 0B3 | Advanced Power Management Status Port |
| 0C0 ~ 0DF | 8237-2 |
| 0F0 ~ 0FF | Math Coprocessor |
| 158 ~ 15F | FIR |
| 170 ~ 177 | IDE Secondary Command Block (Notel) |
| 1F0 ~ 1F7 | IDE Primary Command Block |
| 200 ~ 20F | Game Port |
| 220 ~ 22F | Sound Blaster |
| 279 | ISA PnP Address |
| 2F8 -~ 2FF | FIR |
| 330 ~ 333 | MIDI |
| 376 | IDE Secondary Command Block |
| 378 ~ 37F | Parallel Port |
| 388 ~ 38B | FM Synthesizer |
| 398 ~ 399 | Super I/O Chip |

| I/O Address | Used Device |
|---|---|
| 3B0 ~ 3DF | Video Controller |
| 3E0 ~ 3E1 | PCMCIA Controller |
| 3E8 ~ 3EF | Fax/Modem |
| 3F0 ~ 3F5, 3F7 | Floppy Disk Controller |
| 3F6 | IDE Primary Control Block |
| 3F8 ~ 3FF | Serial Port 1 |
| 4D0 ~ 4D1 | Edge/Level Triggered Register |
| 778 ~ 77B | ECP port |
| A79 | ISA PnP Address |
| CF8 ~ CFF | PCI BUS configuration register |

## A.5 Memory Usage Summary (Window 98)

| Address Range | Length | Used Device |
|---|---|---|
| 00000 ~ 9F7FFh | 638 KB | Base Memory |
| 9F800 ~ 9FFFFh | 2 KB | Extended BIOS Data Area |
| A0000 ~ BFFFFh | 128 KB | Video Memory |
| C0000 ~ CFFFFh | 64 KB | Video ROM |
| D0000 ~ DBFFFh | 48KB | Unused |
| DC000 ~ DFFFFh | 16 KB | DMI information |
| E0000 ~ FFFFFh | 128 K | System ROM BIOS |