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Regulations Information

FCC-B Radio Frequency Interference 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:

- ♦ 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.

NOTE

1. *The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*
2. *Shield interface cables and AC power cord, if any must be used in order to comply with the emission limits.*

FCC Conditions

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

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



廢電池請回收

For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

Safety Guideline for Using Lithium Battery

(Danish) ADVARSEL! Lithiumbatteri --- Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af same fabrikat og type. Levé det brugte batteri tilbage til leverandøren.

(Deutsch) VORSICHT: Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleich-wertigen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

(English) CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

(Finnish) VAROITUS: Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan valmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

(French) 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 équivalent recommandé par le constructeur. Mettre au rebut les batteries usages conformément aux instructions du fabricant.

(Norwegian) ADVARSEL: Eksplosjonsfare ved feilaktig skifte av batteri. Benytt same batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

(Swedish) VARNING: Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruction.

Caution on Using Modem

1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
4. Use caution when installing or modifying telephone lines.
5. Avoid using the telephone function (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
6. Do not use the telephone function to report a gas leak in the vicinity of the leak.

CD-ROM Drive Notice

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 your 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 the enclosure.

Safety Instructions

1. Read the safety instructions carefully and thoroughly.
2. Save this User Guide for possible use later.
3. Keep this equipment away from humidity and high temperature.
4. Lay this equipment on a stable surface before setting it up.
5. The openings on the enclosure are used for air convection and to prevent the equipment from overheating. Do not cover the openings.
6. Make sure that the power voltage is within its safety range and has been adjusted properly to the value of 100–240V before connecting the equipment to the power inlet.
7. Place the power cord in a way that people are unlikely to step on it. Do not place anything on the power cord.
8. Always unplug the power cord before inserting any add-on card or module.
9. All cautions and warnings on the equipment should be noted.
10. If any of the following situations arises, get the equipment checked by a service personnel:
 - ◆ The power cord or plug is damaged.
 - ◆ Liquid has penetrated into the equipment.
 - ◆ The equipment has been exposed to moisture.
 - ◆ The equipment has not worked well or you cannot get it work according to User's Manual.
 - ◆ The equipment was dropped and damaged.
 - ◆ The equipment has obvious signs of breakage.

11. Never pour any liquid into the opening that could damage the equipment or cause an electrical shock.
12. Do not leave the equipment in an unconditioned environment with a storage temperature of 60°C (140°F) or above, which may damage the equipment.
13. To prevent explosion caused by improper battery replacement, use the same or equivalent type of battery recommended by the manufacturer only.

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Windows®98/ME, 2000/XP are registered trademarks of Microsoft Corporation.
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- ♦ PCMCIA and CardBus are registered trademarks of the Personal Notebook Memory Card International Association.

Copyright Notice

The material in this guide is the intellectual property of AVERATEC, INC. We take every care in the preparation of this document, but no guarantee is given as to the correctness of its contents. Our products are under continual improvement and we reserve the right to make changes without notice.

Please note that the setting diagrams or values in this guide are FOR YOUR REFERENCE ONLY. The model you bought may be slightly different from the illustrations and descriptions in this guide. If you are not sure about certain information, such as the Notebook specification and equipment, please ask your local vendor for help.

Technical Support

Visit the Averatec website for FAQ, technical guide, driver and software updates, and other information at <http://www.averatec.com>

Contact our technical staff at:

Email: customercare@averatec.com

Support phone#: 877-462-3462

24 hours a day, 7 days a week (excluding holidays)



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How to Use This Manual

This User's Manual provides instructions and illustrations on how to operate this notebook. It is recommended to read this manual carefully before using this notebook.

Chapter 1, General Introduction, includes the descriptions of all the accessories of this notebook. It is recommended to check out that if you have all the accessories included when you open the packing box. If any item is damaged or missing, please contact the vendor where you purchased this notebook.

Chapter 2, Getting Started, provides the specification of this notebook, and introduces the function buttons, quick launch buttons, connectors, LEDs and externals of this notebook. Also, this chapter instructs the correct procedure of installing or uninstalling the battery pack, and the brief ideas on how to use this notebook.

Chapter 3, Customizing this Notebook, gives instructions not only in connecting the mouse, keyboard, webcam, printer, external monitor, IEEE 1394 devices, and communication devices, but also in installing and removing the PC card.

Chapter 4, BIOS setup, provides information on BIOS Setup program and allows you to configure the system for optimum use.

Unpacking

First, unpack the shipping carton and check all items carefully. If any item contained is damaged or missing, please contact the store where you purchased this notebook. Also, keep the box and packing materials in case you need to ship the unit in the future.

The package should contain the following items:

- ♦ Notebook
- ♦ Quick Start Guide
- ♦ High-capacity Li-ion battery pack
- ♦ AC adapter and power cord

The items listed above may change without notice.

Preface

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Specification

Physical Characteristic	
Dimension	11.9" (L) x 8.86" (D) x 1.2" (H)
Weight	4.4 lbs.
CPU	
Processor Type	Mobile AMD
Processor	Turion 64 MT-28 or MT-30 or Mobile Sempron 3000+
L2 Cache	512KB or 1MB
Core Chips	
North Bridge	ATi [®] RS482M
South Bridge	ATi [®] SB400
Memory	
Technology	DDR 333
Memory	DDR SO-DIMM X 2 slots 128/256/512/1024MB DDR SDRAM
Maximum	2GB (1024MB DDR SO-DIMM X 2)
Power	
AC Adapter	65W, 19 Volt
Battery Type I	Standard Lithium Ion Battery Pack Extended Lithium Ion Battery Pack (optional)
Storage	
HDD form factor	9.5mm(H), 80GB

IDE Controller	Ultra DMA ATA-100
Optical Device	DVD+/-RW Dual Layer
I/O Port	
Monitor(VGA)	15 pin Mini D-Sub x 1
USB	x 3 (USB version 2.0)
Headphone Out	x 1
IEEE1394	x 1
Mic-in	x 1
RJ11	x 1
RJ45	x 1
Communication Port	
56K Fax/MODEM	I/F --- AC97 S/W Modem
MDC (AC'97)	Controller --- AC 97 Embedded Wake on Ring --- Support on S3
LAN	Wake on LAN --- Support on S3 state LAN Boot --- Yes Wfm 2.0 support
Wireless LAN	IEEE 802.11b/g
PCMCIA	
Controller	MMC/SD/MS/MS PRO 4-in-one card reader x1
Slot	Type II x 1
Display	
LCD Type	12.1" WXGA
Brightness	Brightness controlled by K/B hot-keys

Video

Controller	RS482M
VRAM	Shared System Memory
LCD	1280 x 800 WXGA
CRT Support	800x600, max, 32bit color 1024x768, max, 32bit color 1280x800, max, 32bit color
Display Detect	System auto detect LCD or CRT: 1. Display to CRT - only if LCD lid is closed; 2. Display to LCD - only if no CRT detected; 3. Display can scan CRT & LCD simultaneously if both are detected and activate.

Audio

Sound Controller	SB400
Sound Codec chip	Realtek
Internal Speaker	2 Speakers with housing
SoundBlaster	SoundBlaster compatible
Sound Volume	Adjust by volume button, K/B hot-key

Software & BIOS

Support OS	Windows XP Home and Professional
USB Flash Boot	Yes
BIOS	Fast Boot Support --- Yes (Windows XP)

Others

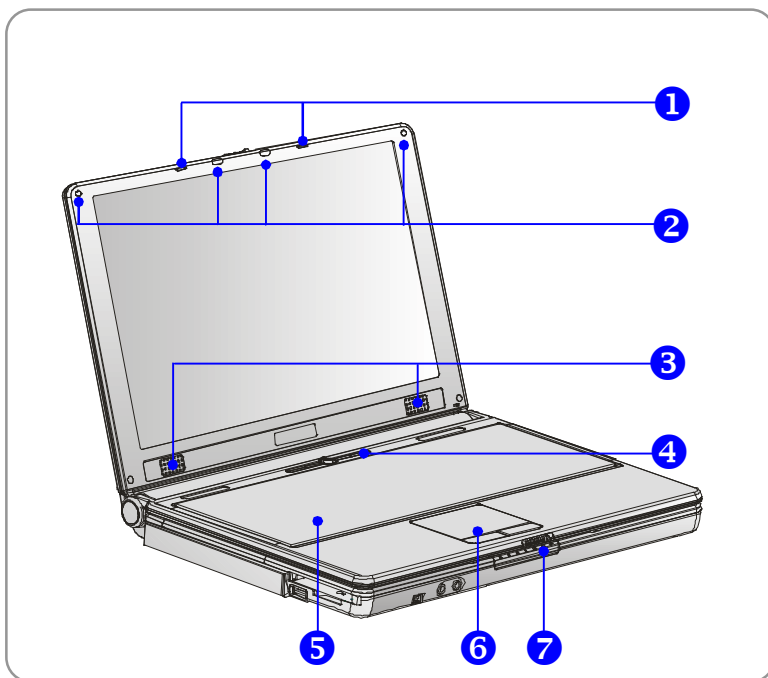
Kensington Lock Hole	x 1
Compliance	WHQL --- PC2001

Product Overview

This section provides you the description of basic aspects of your Notebook. It will help you to know more about the appearance of this Notebook before using it.

Top-open View

Press the Cover Latch to open the top cover (LCD Panel).



1. Cover Latch (Internal View)

2. Rubber Pads

Protects the display when closing the top cover.

3. Stereo Speakers

Outputs sound.

4. Quick Launch Buttons and Power Button

	Power Button: To turn your Notebook ON and OFF.
	Quick Launch Buttons: Simply click the quick launch buttons to speed up the starting of the programs in common use.

5. Keyboard

The built-in keyboard provides all the functions of a full size keyboard.

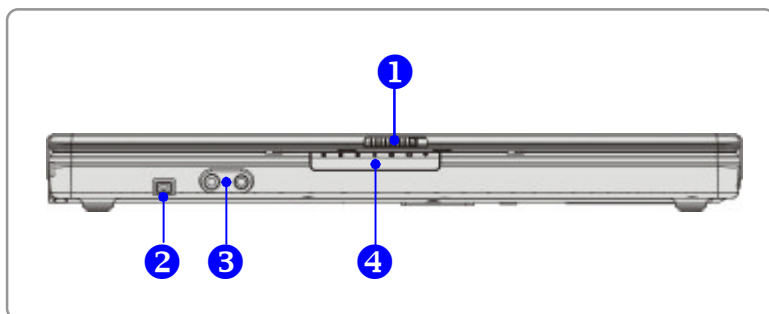
6. Touchpad

Pointing device of your Notebook which works like a mouse.

7. Status LED

Please see Front View for detailed description.

Front View



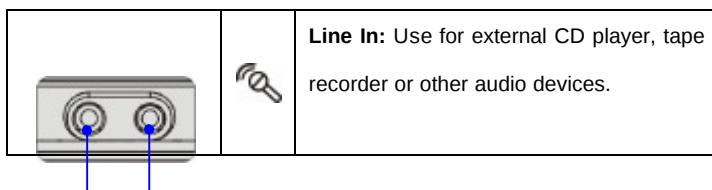
1. Cover Latch (External View)

Slide the cover latch towards the right and lift the cover.

2. IEEE 1394

The IEEE 1394 port allows you to connect high-end digital devices such as a digital video camera or connect to another computer that has a 1394 port.

3. Audio Port Connectors

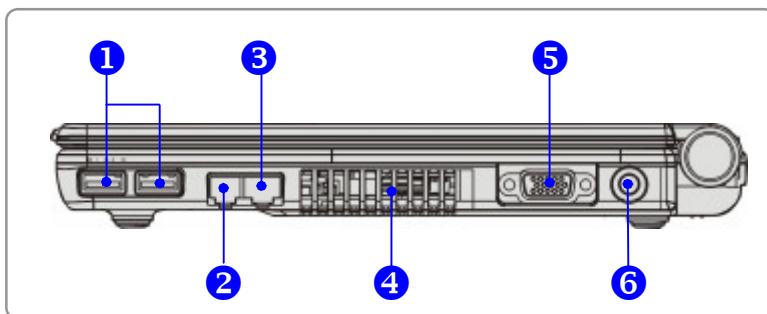


		Line Out: Use for speakers or headphones.
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4. Status LED

	Num Lock: Glowing Blue when the Num Lock function is activated.
	Caps Lock: Glowing Blue when the Caps Lock function is activated.
	Scroll Lock: Glowing Blue when the Scroll Lock function is activated.
	Hard Disk In-use: Blinking Blue when Notebook is accessing the hard disk drive.
	AC Power On: Glowing Blue when the AC Power is activated and blinking Blue when Notebook is in sleep mode.
	Battery Status: Blinking Green when the battery is being charged and blinking red when the battery level is low.
	Wireless LAN: Glowing Blue when the integrated wireless LAN is enabled. Fast blinking in blue during data transmission.

Right-side View



1. USB Port

The USB 2.0 ports allow you to connect USB devices such as a mouse, keyboard, MP3 player, portable hard drive, printer and more.

2. RJ-11 Connector

This is the connector of the built-in modem that allows you to connect to an Internet Service Provider (ISP) or send and receive fax.

3. RJ-45 Connector

This connector is used to connect a LAN cable for network connectivity.

4. Vent

The vent is designed to cool the system. DO NOT block the vent.

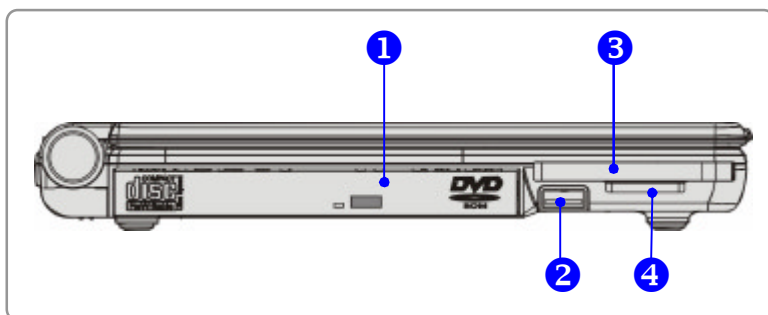
5. VGA Port

The 15-pin D-sub VGA port allows you to connect an external monitor or other standard VGA-compatible device (such as a projector).

6. Power Connector

To connect the AC adapter and supply power for the Notebook.

Left-side View



1. Optical Storage Device

The slim DVD+/-RW Dual Layer drive allows you to burn on CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW and Dual Layer DVD media. The multi-purpose optical drive also allows you to install software and play music and movies.

2. USB Port

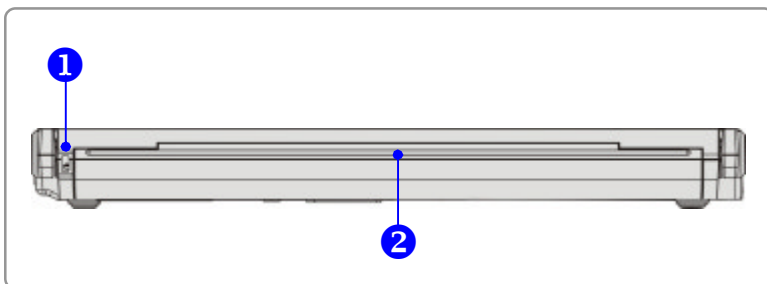
3. PC Card Slot

The PC card slot to support one Type-II PC card for expansion.

4. 4-in-1 Card Reader

The built-in card reader supports MMC (multi-media card), SD (secure digital), and MS and MS PRO (memory stick) cards.

Rear View



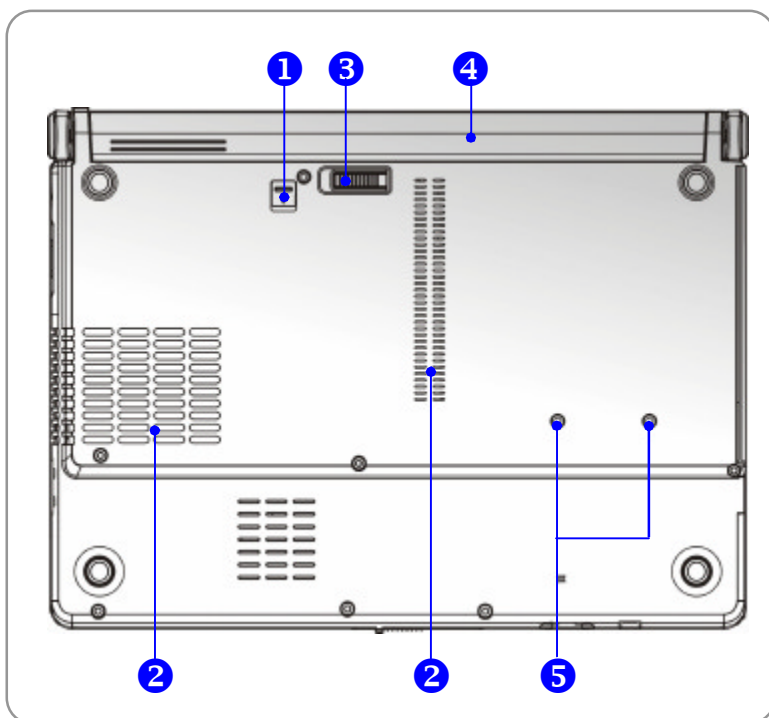
1. Kensington Lock Slot

This is used to lock the Notebook to an immovable object for security purposes.

2. Battery Pack (Rear View)

Supplies power to your Notebook when the AC adapter is not connected

Bottom View



1. Battery Lock/Unlock Button

Secures the battery when the latch is in the lock position. Once the latch is pushed to the unlock position, the battery can be removed.

2. Vent

The vent is designed to cool the system. DO NOT block the vent for air circulation.

3. Battery Release Button

Releases the battery pack. Slide with one hand and pull the battery pack out carefully.

4. Battery Pack

Supplies power to your Notebook when the AC adapter is not connected.

5. Screw hold for removal of the Optical Device

Power Management

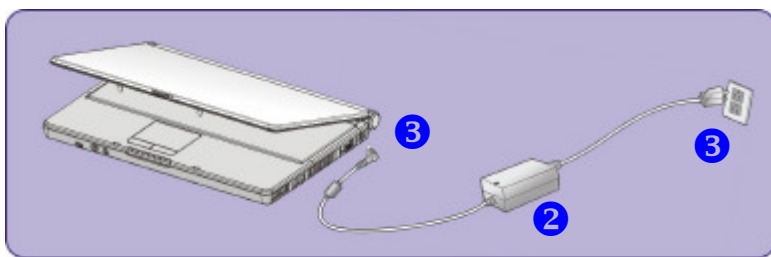
AC Adapter

Please be noted that it is strongly recommended to connect the AC adapter and use the AC power while using this Notebook for the first time. When the AC adapter is connected, the battery will be charged.

NOTE that the AC adapter included in the package is approved for your Notebook; using a different adapter model may damage the Notebook or other devices in the Notebook.

Connecting the AC Power

1. Unpack the package to find the AC adapter and power cord.
2. Attach the power cord to the connector of the AC adapter.
3. Plug the DC end of the adapter to the Notebook, and the male end of the power cord to the electrical outlet.



Disconnecting the AC Power

When you disconnect the AC adapter, you should:

1. Unplug the power cord from the electrical outlet first.
2. Unplug the connector from the Notebook.
3. Disconnect the power cord and the connector of AC adapter.
4. When unplugging the power cord, always hold the connector part of the cord. Never pull the cord directly!

Battery Pack

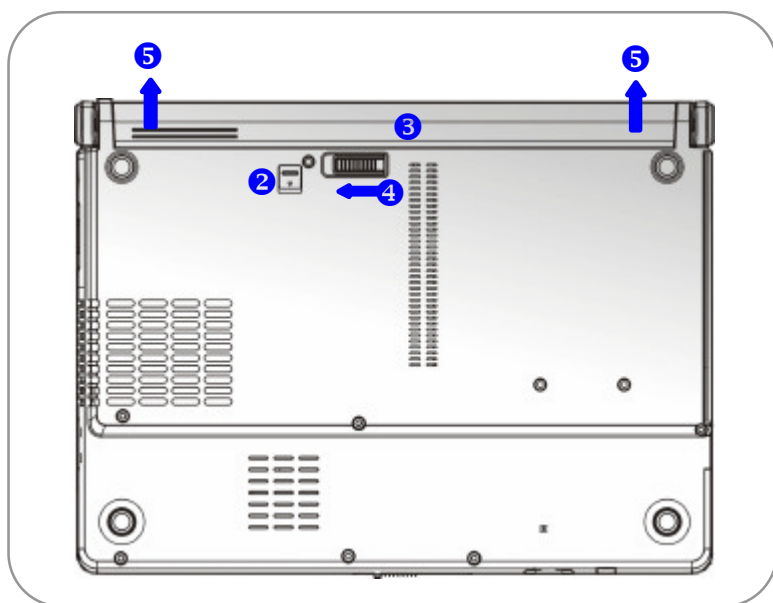
This Notebook is equipped with a Standard Lithium Ion Battery pack.

Releasing the Battery Pack

It is highly recommended to buy a battery pack from your local dealer.

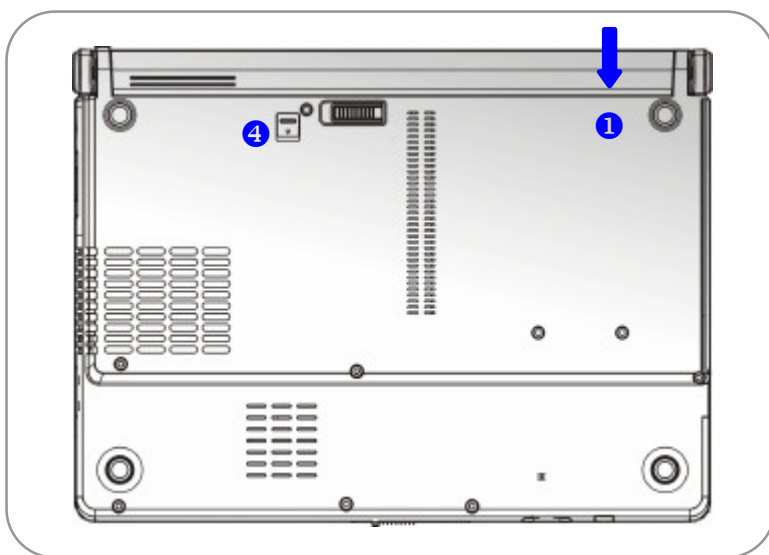
To remove the battery pack:

1. Make sure the Notebook is turned off.
2. Check the Lock/Unlock button is in the unlock status.
3. Locate the Battery Release Button on the bottom side.
4. Slide the Release Button to the direction of the arrow as shown.
5. Slide the left side of the battery pack first out of the compartment and then pull the right side of the battery pack.



Replacing the Battery Pack

1. Insert the right side of battery pack into the compartment.
2. Slightly slide and press the battery pack into the right place.
3. After the right side of the battery pack fitting the right track, then slightly press the left side of battery pack into the battery chamber.
4. Make sure the Lock/Unlock Button is in the lock position.



info

1. *Do not try to disassemble THE BATTERY PACK.*
2. *Please follow your local laws and regulations when disposing or recycling the battery pack.*

Using the Battery Pack

Battery Safety Tips

Replacing or handling the battery incorrectly may present a risk of fire or explosion, which could cause serious injury.

- ♦ Only replace the main battery pack with the same or equivalent type of battery.
- ♦ Do not disassemble, short-circuit or incinerate batteries or expose them to temperatures above +60° C (+140° F).
- ♦ Do not tamper with batteries. Keep them away from children.
- ♦ Do not use rusty or damaged batteries.
- ♦ Dispose of batteries according to local regulations. Check with your local solid waste officials for details about recycling options or for proper disposal in your area.

Conserving Battery Power

Efficient battery power is critical in maintaining normal operation. If the battery power is not managed well, the battery's life may be decreased.

Follow these tips to help optimize battery life and avoid a sudden power loss.

- ♦ Place the Notebook in Sleep mode if the system will be idle for a while or shorten the Sleep Timeout period.
- ♦ Turn off the system if you won't be using it for a period of time.
- ♦ Disable unneeded settings or remove idle peripherals to conserve power.
- ♦ Connect the AC adapter to the system whenever possible.

Charging the Battery Pack

The battery pack can be recharged while it is installed in the Notebook. Please pay attention to the following tips before recharging the battery:

- ♦ If a charged battery pack is not available, save your work and close all running programs and shut down the system or Hibernate.
- ♦ Plug in an external AC/DC power source.
- ♦ You can use the system, suspend system operation or shut down and turn off the system without interrupting the charging process.
- ♦ The battery pack uses Lithium-ion battery cells that have no “memory effect.” You do not need to discharge the battery pack before you begin charging. However, to optimize the life of battery, we suggest that you deplete the battery power completely once a month.
- ♦ If you do not use the Notebook for a long time, it is suggested to remove the battery pack from your Notebook to extend the battery's life.
- ♦ The actual charging time will be determined by the applications in use.

Basic Operations

Knowing the Keyboard

The Notebook's keyboard provides all the functions of a full size keyboard and an additional [Fn] key for specific notebook functions. The keyboard can be divided into four categories: **Typewriter keys**, **Cursor keys**, **Numeric keys** and **Function keys**.



Typewriter Keys



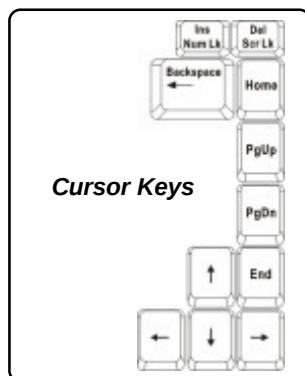
The function of these Typewriter keys is the major function of the keyboard, which is similar to the keys on a typewriter. It also provides several keys for special purposes, such as the [Ctrl], [Alt] and [Esc] key.

When the lock keys are pressed, the corresponding LEDs will light up to indicate their status:

- **Num Lock:** Press and hold the [Fn] key and press this key to toggle the Num Lock on and off. When this function is activated, you can use the numeric keys that are embedded in the typewriter keys.
- **Caps Lock:** Press this key to toggle the Caps Lock on and off. When this function is activated, the letters you type are kept in uppercase.
- **Scroll Lock:** Press and hold the [Fn] key and press this key to toggle the Scroll Lock on and off. This function is defined by individual programs, and it is usually used under DOS.

Cursor Keys

The keyboard provides four cursor (arrow) keys and **[Home]**, **[PgUp]**, **[PgDn]**, **[End]** keys at the lower right corner, which are used to control the cursor movement.



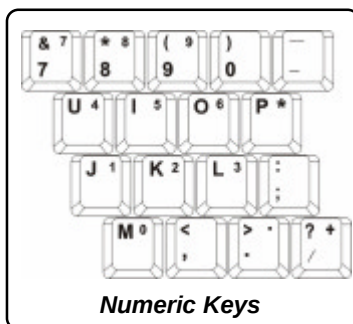
	Move the cursor left for one space.
	Move the cursor right for one space.
	Move the cursor up for one line.
	Move the cursor down for one line.
	Move to the previous page.
	Move to the next page.
	Move to the beginning of the line (or document).
	Move to the end of the line (or document).

The Backspace key, [Ins] and [Del] keys at upper right corner are use for editing purpose.

	This key is used to switch the typing mode between “insert” and “overwrite” modes.
	Press this key to delete one character to the right of the cursor and move the following text left for one space.
	Press this key to delete one character to the left of the cursor and move the following text left for one space.

Numeric Keys

The keyboard provides a set of numeric keys, which is embedded in the typewriter keys. When the Num Lock is activated, you can use these numeric keys to enter numbers and calculations.



Function Keys

■ Windows Keys

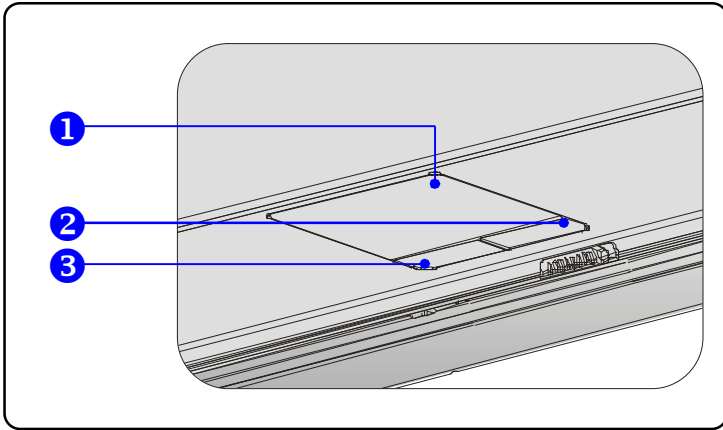
You can find the Windows Logo key () and one Application Logo key () on the keyboard, which are used to perform Windows-specific functions, such as opening the Start menu and launching the shortcut menu. For more information of the two keys, please refer to your Windows manual or online help.

■ [Fn] Key

 + 	Switch the display output mode between the LCD, external monitor and Both.
 + 	Increase the LCD brightness.
 + 	Decrease the LCD brightness.
 + 	Decrease the volume.
 + 	Increase the volume.
 + 	Mute the sound.
 + 	Enter power saving mode.

Knowing the Touchpad

The integrated touchpad in your Notebook is a pointing device that works similar to a mouse. It allows you to control the Notebook by pointing the location of the cursor on the screen and making selection with its two buttons.



1. Cursor Movement Area

This pressure-sensitive area of the touchpad, allows you to place your finger on it and control the cursor on the screen by moving your finger.

2. Right Button

Acts as the mouse's right button.

3. Left Button

Acts as the mouse's left button.

Using the Touchpad

Read the following description to learn how to use the touchpad:

■ **Positioning and Moving**

Place your finger on the touchpad (usually using the forefinger), and the rectangular pad will act as a miniature duplicate of your display. When you move your fingertip across the pad, the cursor on the screen will move simultaneously in the same direction. When your finger reaches the edge of the pad, lift your finger and replace it on a proper location of the touchpad.

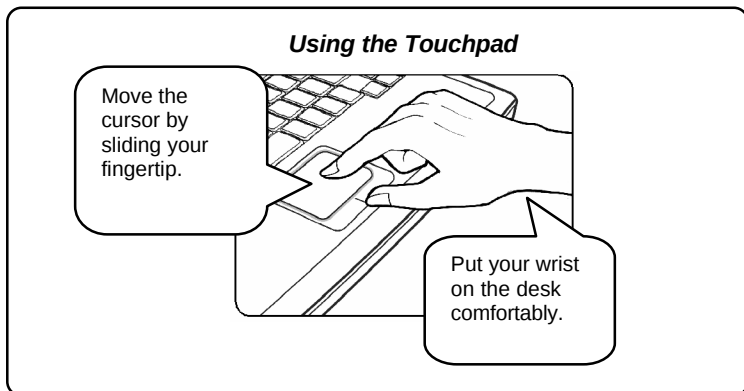
■ **Point and Click**

When you have moved and placed the cursor over an icon, a menu item or a command that you want to execute, simply tap slightly on the touchpad or press the left button to select. This procedure, called as point and click is the basics of operating your Notebook. Unlike the traditional pointing device such as the mouse, the whole touchpad can act as a left button, so that your each tap on the touchpad is equivalent to pressing the left button. Tapping twice more rapidly on the touchpad is to execute a double-click.

■ **Drag and Drop**

You can move files or objects in your Notebook by using drag-and-drop. To do so, place the cursor on the desired item and slightly tap twice on the touchpad, and then keep your fingertip in contact with the touchpad on the second tap. Now, you can drag the selected item to the desired location by moving your finger on the touchpad, and then lift your finger from the touchpad to drop the item into place. Alternately, you can press and hold the left button when you select an item, and then move your finger to the

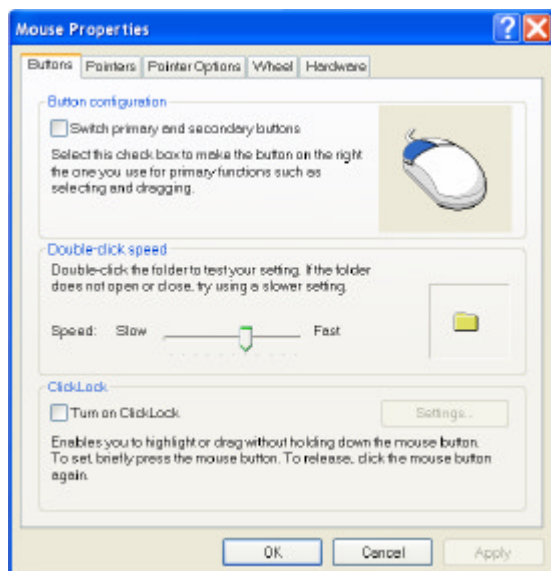
desired location; finally, release the left button to finish the drag-and-drop operation.



■ Configuring the Touchpad

You can customize the pointing device to meet your personal needs. For example, if you are a left-hand user, you may want to swap the functions of the two buttons. In addition, you can change the size, shape, moving speed and other advanced features of the cursor on the screen.

To configure the touchpad, you can use the standard Microsoft or IBM PS/2 driver in your Windows operating system. The **Mouse Properties** in **Control Panel** allows you to change the configuration.



Mouse Properties Window

About Hard Disk Drive

Your Notebook is equipped with a 2.5-inch 9mm IDE hard disk drive. The hard disk drive contains the operating system and software applications.



info

1. *To avoid unexpected data loss in your system, please backup your critical files regularly.*
2. *Do not turn off the Notebook when the Hard Disk In-use LED is on.*
3. *Do not remove or install the hard disk drive when the Notebook is turned on. An authorized retailer or a service representative should perform the replacement of hard disk drive.*

Using the Optical Storage

Your Notebook is equipped with an optical storage device, which is known as a DVD Dual drive.

- **CD-ROM Drive:** Allows you to read CD disks, including audio CDs and CD-R/RW disks.
- **DVD-ROM Drive:** Allows you to read DVD disks and CD disks, including movie DVDs, audio CDs and CD-R/RW disks.
- **CD-RW Drive:** Allows you to create the CD-R/RW disks containing your own contents.
- **DVD Combo Drive:** A cost-effective solution that can work both as a DVD-ROM drive and a CD-RW drive.
- **DVD Dual Drive:** A dual format recorder, allows you to record both the -R/RW and +R/RW formats and on dual layer media. All of the above functions are also supported.



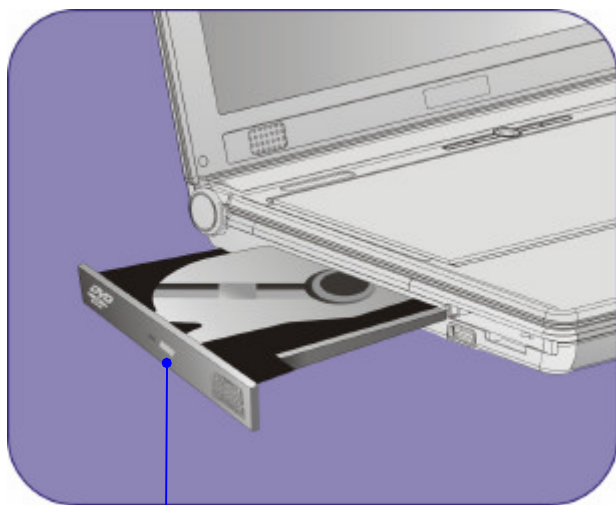
info

1. *The optical storage device is classified as Class 1 Laser products. Use of controls or adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.*
2. *Do not touch the lens inside the drive.*

Inserting the CD

The following instruction describes the general procedure when operating the optical storage device, including the DVD-ROM drive.

1. Confirm that the Notebook is turned on.
2. Press the Eject Button on the drive's panel and the CD tray will slide out partially. Then, gently pull the tray out until fully extended.
3. Place your CD in the tray with its label facing up. Slightly press the center of the CD to secure it into place.
4. Push the tray back into the drive.



Eject Button

Removing the CD

1. Confirm that the Notebook is turned off.
2. Press the Eject Button on the drive's panel and the CD tray will slide out partially. Then, gently pull the tray out until fully extended.
3. Hold the CD by its edge with your fingers and lift it up from the tray.
4. Push the tray back into the drive.



info

1. *Confirm that the CD is placed correctly and securely in the tray before closing the tray.*
2. *Do not leave the CD tray open.*

Preface

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Chapter 3

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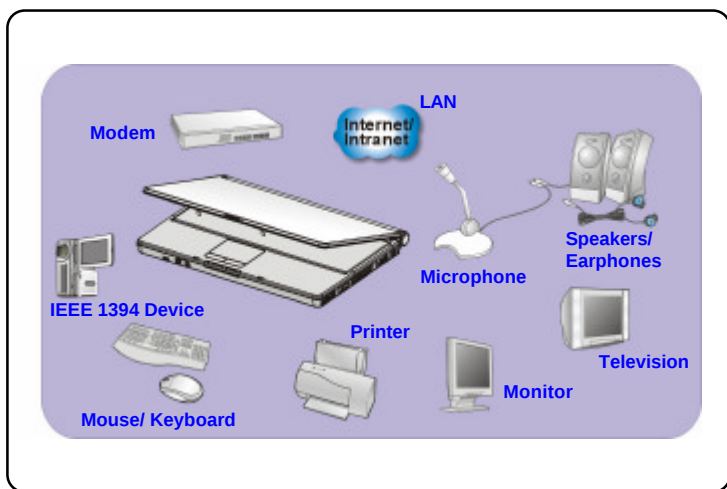
Chapter 4

BIOS setup



Connecting External Devices

The I/O (input/output) ports on the Notebook allow you to connect peripheral devices.



Connecting the Peripheral Devices

Connecting the Mouse

You can connect a mouse to your Notebook through the USB port. If your mouse has a PS/2 connector, you will need a PS/2-to-USB converter. To connect the mouse:

1. Turn on the Notebook and install the mouse driver.
2. Connect your mouse to the Notebook.
3. The Notebook may auto detect your mouse driver and enable the mouse function. If there is no detection of you mouse you can manually enable the mouse by going to **Start Menu → Control Panel → Add Hardware** to add the new device.

Connecting the Keyboard

You can connect a keyboard to your Notebook through the USB port. If your keyboard has a PS/2 connector, you will need a PS/2-to-USB converter. To connect the keyboard:

1. Turn on the Notebook and install the keyboard driver.
2. Connect your keyboard to the Notebook.
3. The Notebook may auto detect your keyboard driver and enable the keyboard function. If there is no detection of you keyboard you can manually enable the keyboard by going to **Start Menu → Control Panel → Add Hardware** to add the new device.

Connecting the Webcam

You can connect a Webcam to your Notebook through the USB port. To

connect the Webcam:

1. Turn on the Notebook and install the Webcam driver.
2. Connect your Webcam to the Notebook.
3. The Notebook may auto detect your Webcam driver and enable the Webcam function. If there is no detection of you Webcam you can manually enable the Webcam by going to **Start Menu → Control Panel → Add Hardware** to add the new device.

Connecting the Printer

If your printer has a USB interface, you can then use the USB port on the Notebook to connect the printer. The following instruction describes the general procedure to connect a printer:

1. Turn off the Notebook.
2. Connect one end of the printer cable to the Notebook's USB port and the other end to the printer.
3. Connect the power cord and turn on the printer.
4. Turn on the Notebook and the system will detect a new device. Install the required driver.

For further instructions, please refer to your printer's manual.

Connecting the External Monitor or TV

You can connect an external monitor to your Notebook through the VGA port for a larger view with higher resolution. To connect the monitor:

1. Make sure that the Notebook is turned off.
2. Plug the monitor's D-type connector into the Notebook's VGA port.
3. Connect the monitor's power cord and turn on the monitor.

4. Turn on the Notebook and the monitor should respond by default. If not, you can switch the display mode by pressing **[Fn]+[F2]**. Alternately, you can change the display mode by configuring the settings in **Display Properties** of Windows operating system.

Connecting the IEEE 1394 devices

The IEEE 1394 port of your Notebook is a next-generation serial bus that features a high-speed transfer rate and the connection of up to 63 devices, allowing you to connect many high-end peripheral devices and consumer electronic appliances, such as the DV (digital video camera). The IEEE 1394 standard interface supports "**plug-and-play**" technology, so that you can connect and remove the IEEE 1394 devices without turning off the Notebook. To connect the IEEE 1394 device, simply connect the cable of the device to the IEEE 1394 port of your Notebook.

Connecting the Communication Devices

Using the LAN

The RJ-45 connector of the Notebook allows you to connect a LAN (local area network) device, such as a hub, switch or gateway to build a network connection. The integrated 10/100 Base-T LAN module supports data transfer rate up to 100 Mbps.

For more instructions or detailed steps on connecting to the LAN, please ask your technical staff or network manager for help.

Using the Modem

The built-in 56Kbps fax/data modem allows you to use a telephone line to communicate with others or to dial-up to connect the Internet.

For more instructions or detailed steps on dialing-up through the modem, please consult your technical staff or Internet service provider (ISP) for help.



info

1. *To reduce the risk of fire, use only No. 26 AWG or larger telecommunication lone cord.*
2. *To take full advantage of the modem feature, we strongly recommend that you install the modem driver included in the software CD of your Notebook.*

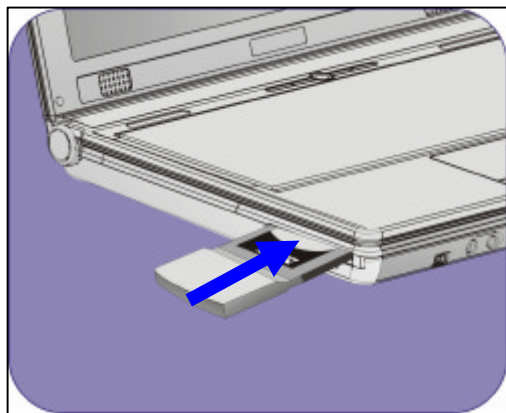
PC Card Installation

The PC card slot of your Notebook allows you to install a Type-II PC card or CardBus card.

The following instruction provides you with a basic installation for the PC card, including how to install and remove it. For more information, please refer to the manual of your PC card.

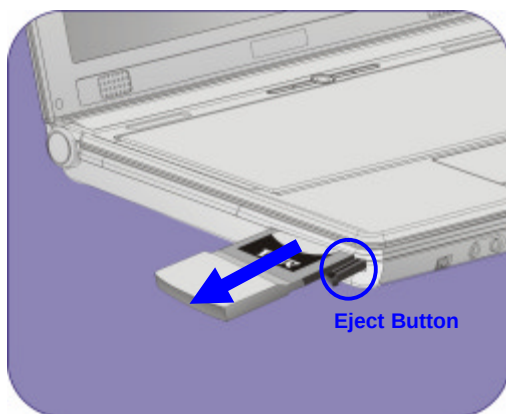
Installing the PC card

1. Locate the PC card slot on your notebook. If there is the dummy card in the slot, remove it first.
2. Insert the PC card into the slot (usually with its label facing up) and push it until it is firmly seated.



Removing the PC card

1. Press the Eject Button to make it stretch out.
2. Push the Eject Button and the PC card will slide out. Pull it out of the slot.



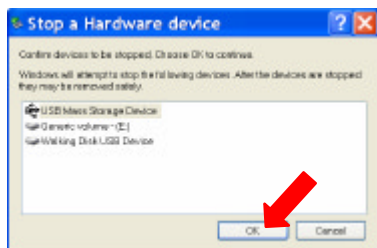
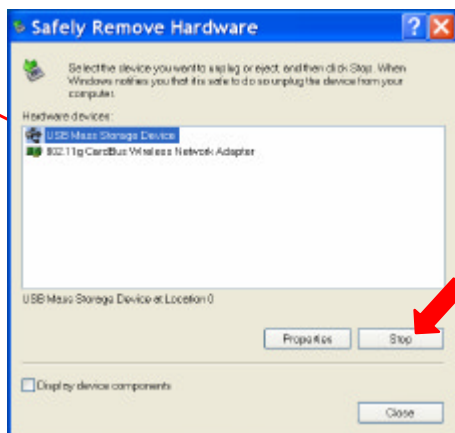
info

1. Do not hold the "golden finger" when installing the PC card; otherwise, it may cause interference or damage to the PC card.
2. Before removing the PC card, you should stop the device in Windows operating system.

Safely Remove Hardware

If you connect any peripheral device to your system, the **Safely Remove Hardware** icon () will appear on the taskbar. Double-click the icon to bring up the Safely Remove Hardware dialog box. You will see all the connected devices. If you want to remove any of the devices, select the device and click **Stop**.

Select



Preface

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Chapter 4 BIOS setup



About BIOS Setup

When to Use BIOS Setup?

You may need to run the BIOS Setup when:

- An error message appears on the screen during the system booting up and requests you to run SETUP.
- You want to change the default settings for customized features.
- You want to reload the default BIOS settings.

How to Run BIOS Setup?

To run the BIOS Setup Utility, turn on the Notebook and press the [F2] key during the POST procedure.

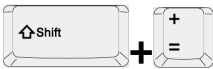
If the message disappears before you respond and you still wish to enter Setup, restart the system by turning it OFF and ON, or simultaneously pressing [Ctrl]+[Alt]+[Delete] keys to restart.

info

The screen snaps and setting options in this chapter are for your reference only. The actual setting screens and options on your Notebook may be different.

Control Keys

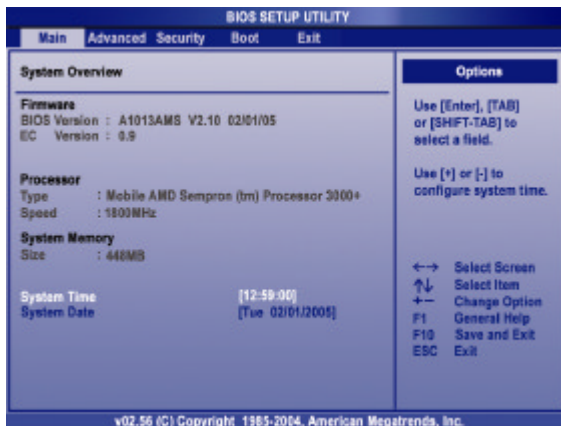
You can use only the keyboard to control the cursor in the BIOS Setup Utility.

	Press left arrow to select one menu title.
	Press right arrow to select one menu title.
	Press up arrow to select one item under the menu title.
	Press down arrow to select one item under the menu title.
	Increase the setting value or make changes.
	Decrease the setting value or make changes.
	1) Open the selected item to change setting options. 2) Bring up a sub-menu when available.
	In some items, press this key to change setting field.
	Bring up help screen providing the information of control keys.
	1) Exit the BIOS Setup Utility. 2) Return to the previous screen in a sub-menu.

BIOS Setup Menu

Once you enter the BIOS Setup Utility, the Main menu will appear on the screen.

The Main menu displays the system information, including the basic configuration.



Main menu

Show System Overview information about BIOS version, CPU features, Memory size and setting of System Time and Date.

Advanced menu

Configure IDE and USB settings.

Security menu

Install or clear Supervisor's and User's Password settings.

Boot menu

Set up Boot Type and Boot Sequence.

Exit menu

Choose decided status before leaving the BIOS menu.

Main menu



System Overview

System Overview will show you BIOS version and other information about its build date and update notes. Following is CPU's information about its Type and Speed.

The variable settings in Main menu are Share Memory, System Time and System Date.

Share Memory

The value you select determines how much system memory to allocate for gaming purposes. The default value is 64 MB. The available values are 8MB, 16MB, 32MB, 64 MB and 128 MB.

System Time

This item allows you to set the system time. The system clock will go on no matter you shut down the PC or get into sleep mode. The set format is [hour:minute:second].

System Date

This item allows you to set the system date. The date format is [day:month:date:year].

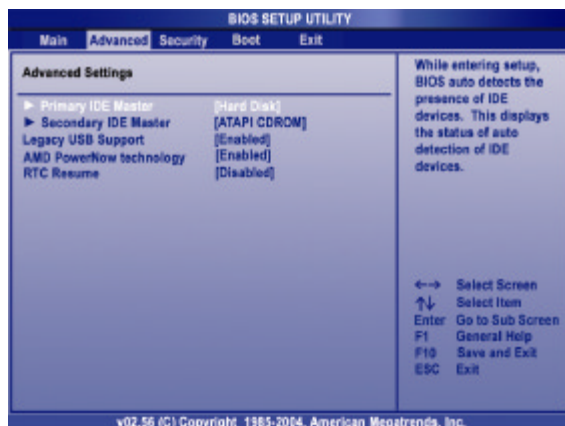
Day Day of the week, from Sun to Sat, which is determined by BIOS (read-only).

Month The month from 01 (January) to 12 (December).

Date The date from 01 to 31.

Year Users can adjust the year.

Advanced menu



Advanced Settings

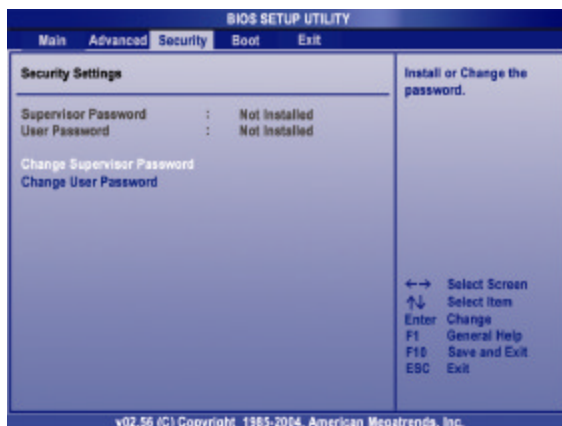
Primary IDE Master/Slave

The two items display the types of the primary master/slave IDE devices installed in the Notebook. Press [Enter] to bring up a window showing the detailed information of the device, including the device name, vendor, LBA mode, PIO mode and more.

Legacy USB Support

If you want to use USB device, like mouse, keyboard, portable disk, in DOS system or boot your system by USB device, you should enable this function.

Security menu



Security Settings

Change Supervisor/User Password

When you select the function, a message box will appear on the screen as below:

Enter New Password

Type the password you want, up to six characters in length and press [Enter]. The password entered will replace any previously set password from CMOS memory. You may also press [ESC] to abort the selection and not enter a password.

When the Supervisor Password is set, the new item **User Access Level** and **Password Check** will be added in the menu. You can change the user access right in the **User Access Level** item. Setting options: **No Access**, **View Only**, **Limited** and **Full Access**. The Password Check item is used to specify the type of BIOS password protection that is implemented. Settings are described below:

Setup	The password prompt appears only when end users try to run Setup.
Always	A password prompt appears every time when the Notebook is powered on or when end users try to run Setup.

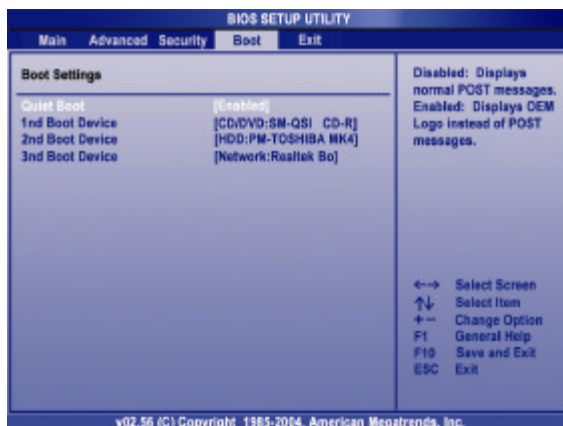
To clear a set password, just press **[Enter]** when you are prompted to enter the password. A message box will show up confirming the password will be disabled. Once the password is disabled, the system will boot and you can enter Setup without entering a password.

info

About Supervisor Password and User Password

Supervisor Password allows the user to enter and change the settings of the setup menu; User Password only allows the user to enter the setup menu, but do not have the right to make changes.

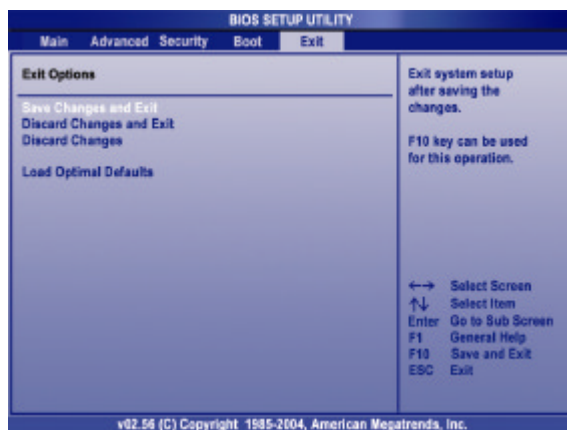
Boot menu



1st, 2nd and 3rd Boot Device Setting

The three items allow you to set the sequence of boot devices.

Exit menu



Save Changes and Exit

Save the changes you have made and exit the utility.

Discard Changes and Exit

Exit the utility without saving the changes you have made.

Discard Changes

Abandon your changes and reload the previous configuration.

Load Optimal Defaults

Select this item to load the default settings for optimal system performance.