IMPORTANT INFORMATION

Copyright

Disclaimer

The information in this document is subject to change without notice. The manufacturer makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Further the manufacturer reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of the manufacturer to notify any person of such revision or changes.

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Other product names used in this manual are the properties of their respective owners and are acknowledged.

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SAFETY & COMPLIANCE

Federal Communications Commission (FCC) - Notebook

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 the 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.

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

Declaration of Conformity

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

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

Federal Communications Commission (FCC) – Fax/modem

This equipment complies with Part 68 of the FCC Rules. On this equipment is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company.

If your telephone equipment causes harm to the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify in advance. But, if advance notice isn't practical, you will be notified as soon possible. You will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect proper operation of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

The FCC prohibits connecting this equipment to party lines or coin-telephone service.

In the event that this equipment should fail to operate properly, disconnect the equipment from the phone line to determine if it is causing the problem. If the problem is with the equipment, discontinue use and contact your dealer or vendor.

The FCC also requires the transmitter of a FAX transmission be properly identified (per FCC Rules Part 68, Sec. 68.381 (c) (3)).

Canadian Department of Communications-Notebook

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

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

VCCI

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づく第二種情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

FDA Regulations require the following statement for all laser-based devices:
"**Caution**, Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure."

CLASS 1 LASER PRODUCT LASERSCHUTZKLASSE 1 PRODUKT TO EN60825

Caution: This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read the instruction manual carefully and keep this manual for future reference. In case of any trouble with this model, please contact your nearest "Authorized Service Station". To prevent direct exposure to the laser beam, do not try to open this enclosure.

UL/TUV Battery & FAX/Modem Caution and Important Safety Instructions

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

VORSICHT!

Explosionsgefahr bei unsachgemäßen Austausch der Batterie Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.

Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

Do not use the telephone to report a gas leak in the vicinity of the leak.

Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

This product intended to be supplied by a Listed Power Unit, marked "Class 2" or "LPS" and output rated +20 ~ 18V dc, 6 ~ 7.5 A"

CTR21 Notice

The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

In the event of problems, you should contact your equipment supplier in the first instance.

ANNEX II

The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTN's provided in different countries the approval does not of itself give an unconditional assurance of successful operation on every PSTN network termination point.

In the event of problems, you should contact your equipment supplier in the first instance.

Note: The manufacturer should ensure that the vendor and user of the equipment is clearly informed of the above information by means of packaging and/or user manuals or other forms of user instructions.

ANNEX III

This declaration will indicate the networks with which the equipment is designed to work and any notified networks with which the equipment may have interworking difficulties.

Network compatibility declaration to be made by the manufacturer to the user.

This declaration will indicate the network with which the equipment is designed to work and any notified networks with which the equipment may have interworking difficulties. The manufacturer shall also associate a statement to make it clear where network compatibility is dependent on physical and software switch settings. It will also advise the user to contact the vendor if it is desired to use the equipment on another network

CE Declaration of Conformity

The system computer model 200 and accessories conform to the following production specifications:
Manufacturer Name:
Manufacturer Address:

Model Name: 200

Is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member Sates relating to Electromagnetic Compatibility (89/336/EEC) and Low-voltage Directive (73/23/EEC & 93/68/EEC). For the evaluation regarding the Electromagnetic Compatibility and Low-voltage Directive the following standards were applied.

Standards

89/336/EEC-EMC Directive

EN 55022 : 1998/A1:2000(Class B)	Limits and methods of measurement of radio disturbance characteristics of information technology equipment.
EN 61000-3-2 : 1995/A1/A2:1998/A14:2000	Disturbances in supply systems caused by household appliance and similar electrical equipment "harmonics".
EN 61000-3-3 : 1995/A1:1998	Part 2: harmonics/parts: voltage fluctuations.

EN 55024:1998 ITE Immunity Standard

IEC 61000-4-2 : 1995/A1:1998/A2:2000	Electrostatic discharge requirements
IEC 61000-4-3 : 1996/A1:1998/A2:2000	Immunity to radiated, radio frequency electromagnetic fields
IEC 61000-4-4 : 1995/ A1:2000	Electrical fast transient requirements
IEC 61000-4-5 : 1995/ A1:2000	Surge requirements
IEC 61000-4-6 : 1996/ A1:2000	RF Common Mode requirements
IEC 61000-4-8 : 1993/ A1:2000	Power Frequency Magnetic Field requirements

IEC 61000-4-11 : 1994/ A1:2000	Voltage Interruptions and Voltage Dips requirements

73/23/EEC-Low Voltage Directive

EN 60950 1992 +A1+A2+A3+A4+A11	Safety for information technology equipment including electrical business equipment

The following manufacturer/importer is responsible for this declaration:
Company Name:

Company Address:

Person responsible for making this declaration:

Name:
Position:
Place
Date:

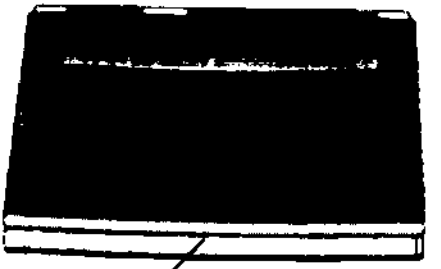
CHAPTER 1: INTRODUCING THE NOTEBOOK

Welcome

This notebook is a state of the art portable computer that delivers high-performance processing and crisp graphics on a large built-in screen. The system has multiple media storage devices and versatile upgrade paths for increasing memory, adding peripheral devices, and so on.

To Open the System

Slide the locking latch on the front edge of the notebook to the right and left the built-in screen up to a good viewing angle.

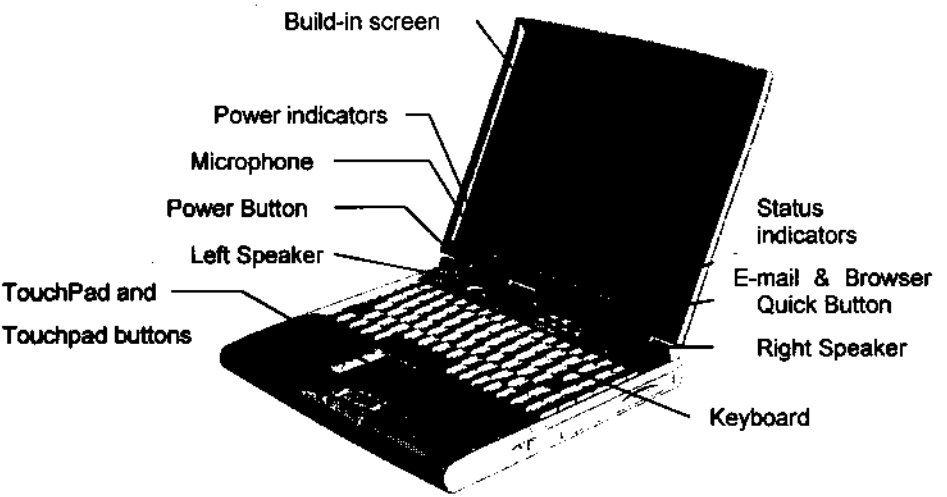


Upper cover

Locking latch

Inside the Notebook

This main working area of your notebook includes the keyboard, the Touchpad, and Touchpad buttons, the audio system speakers and microphone, the power switch and e-mail & browser quick button, indicator LED, and the built-in screen.



Power Indicators

The two power indicators are located on the down edge of both side display panel.

Left-side Indicator	
Steady green light	System is turned on
Flashing green light	System is in Suspend mode

Right-side Indicator	
Steady green light	Battery is fully charged
Flashing green light	Battery is charging

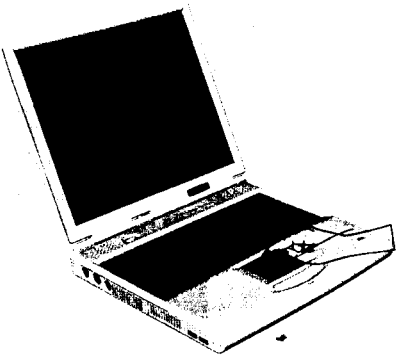
Function Key Reference

The table below shows the meaning of the function key icons, and other embedded keyboard icons:

Keystrokes	Icon	Description
FN + F2		Serves as the sleep button that you can define with Windows "Power Management". (See the "Using Power Management" in Chapter 4.)
FN + F6		This key combination turns off the built-in speakers, and any speakers that are connected to the speaker sound port.
FN + F7		This key combination increases the volume of the speakers, and any speakers attached to the sound port.
FN + F8		This key combination decreases the volume of the speakers, and any speakers attached to the sound port.
FN + F9		This key combination increases the brightness of the built-in screen.
FN + F10		This key combination decreases the brightness of the built-in screen.
		This key activates the Start button Windows Task Bar.
		This key opens the pull down menu of a selected icon or object. Its action is the same as right-clicking an icon or object with a mouse or Touchpad.

Using the Touchpad

Moving your fingertip across the Touchpad surface is exactly the same as moving a mouse across a Mousepad.

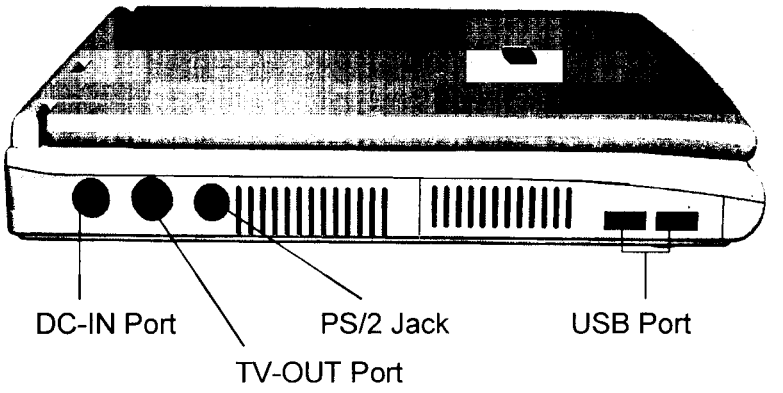


Two buttons are located below the Touchpad. The button on the left acts exactly the same as the left button on a mouse.

The button on the right acts exactly the same as the right button on a mouse.

Left-side Description

The left side contains a Hard disk drive, two USB ports, a PS/2 Jack, a TV-OUT port and a DC-IN port.



DC-IN Port

Plug the DC (Direct Current) cable from AC adapter into the DC-IN port that can provide you to continue using this notebook computer.

Using the TV-OUT Port

This port is a standard S-Video jack. You can use the video cable to connect your notebook to a television. (For more detail information please see Chapter 4.)

Using the PS/2 Jack

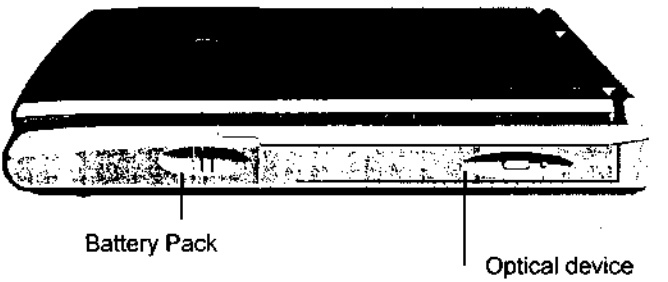
This port lets you connect an external keyboard to your system, such as a full size AT-enhanced keyboard, or an external pointing device to your system, such as a mouse or a Trackball. The PS/2 device must have a mini-DIN PS/2 connector.

Using the USB Port

This computer has two USB (Universal Serial Bus) ports for connecting USB devices such as mouse, keyboard, camera, scanner, etc.

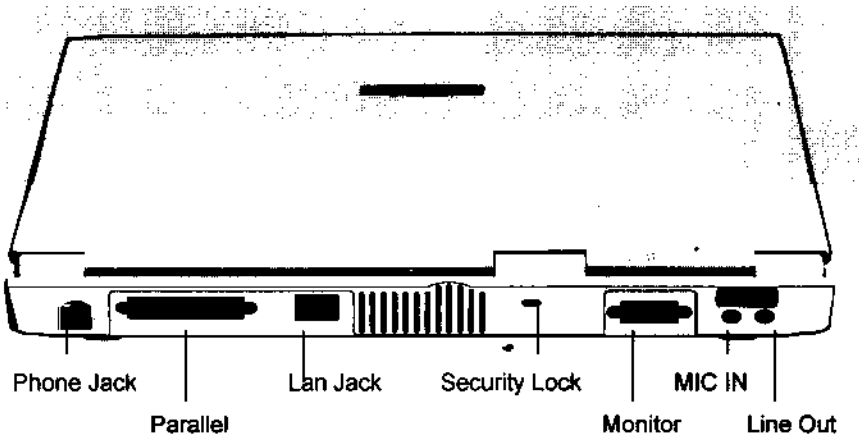
Right-side Description

The right side houses a battery and the optical device. (For more detail information please see Chapter 4.)



Rear-side I/O Ports

The rear side has a full range of I/O ports that allow you to connect a variety of peripheral devices to your system.



Using the Phone Jack

The phone jack is a standard RJ-11 jack. You can use a modem cable to connect the notebook to a telephone outlet. For more detail information please see Chapter 5.

Using the Parallel Port

The 25-pin parallel port is usually used to connect your notebook to a parallel device such as a printer or a plotter. When you add a printer to your system, you usually need to load a driver for the printer from the original Windows CD or diskettes. The *Printer* icon in the *Control Panel* has an *Add New Printer* icon to help you install a printer. The parallel port identified by your notebook as LPT1.

Integrated Ethernet Jack (SIS 961 Chipset embedded LAN)

The Ethernet jack is a standard RJ 45 jack. You can attach a standard RJ 45 connector into this jack to connect your network environment.

Security Lock Anchor

The rectangular hole can be use by a wire cable of security lock. To secure your notebook to a desk or some other immovable object, to help prevent theft. For more information please see chapter 4.

Using the External Monitor Port

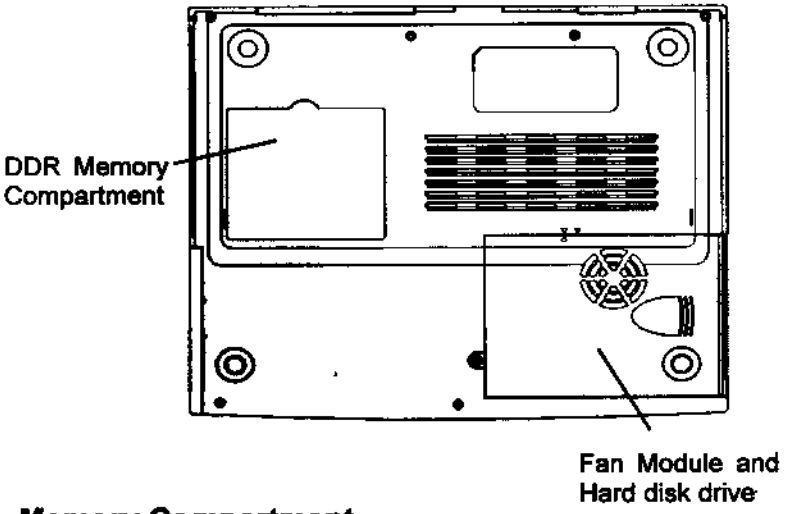
The external monitor port can be used to connect an external CRT (cathode ray tube) or flat panel monitor to your notebook.

Using the MIC-IN & Line-Out

You can connect an external microphone and speaker. For more information please see Chapter 4.

Features on the Unit Base

The base of the notebook has a compartment for adding memory and allows you to remove the battery pack and the hard disk drive.



Memory Compartment

This computer has one 200 pins socket for DDR 200/266 memory for upgrade system. For more detail information, please refer to the chapter 5.

Hard Disk Drive

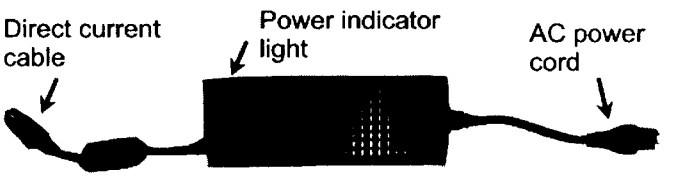
This notebook allows the hard disk drive is a 2.5-inch IDE hard disk drive.

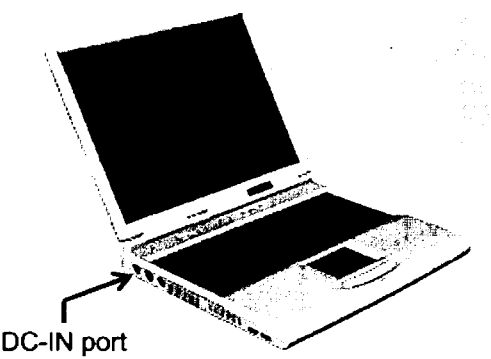
CHAPTER 2: GETTING STARTED

Connecting Power to the System

Warning: *It is particularly important that you only use the AC adapter supplied from your dealer. Otherwise, you may damage your notebook.*

The AC adapter is Auto-sensing so that your notebook can operate through the AC adapter connected to any available power supply in a wall outlet. The AC adapter is also used to recharge the rechargeable battery.





Note: *It is particularly important that you give your battery a full charge the first time that you use it. We recommend that you leave the system connected to the AC adapter until the battery is fully charged. The right indicator LED on the front*

edge of the notebook will stop flashing when the notebook is fully charged.

1. Plug the power cord into a regular AC power supply outlet.
2. The power indicator on the AC adapter will turn on to show that it is connected to AC power.
3. Plug the direct current cable from the AC adapter into the DC-IN port on left side of the notebook.
4. The right side indicator on the front edge of the notebook will begin flashing with a green light. This indicates that the AC adapter has begun charging the internal battery.

Using this computer

After hardware setup, your notebook computer is ready for service.

Note: *Typically your computer comes with a copy of pre-installed OEM version of Microsoft Windows. Depending on your system's configuration and use, your operating system could be Windows ME (Millennium Edition) or others version of Windows that's most suitable to your needs. Different versions of Windows may have slightly different interfaces and functions.*

If the Windows operating system is partially installed on your system, the installation is completed when you turn on the computer for the first time. At that point, Windows will run a setup program which gathers important information about you and your computer preferences, so that Windows operates the way you want it to. Throughout the setup procedure, Windows will present dialog boxes on the screen. When you have read the dialog box and wish to proceed with the installation, use the Touchpad to point to the Next button and then click it.

1. Turn on your notebook by pressing the power button.
2. When Windows starts, you may see a Safe Recovery message. This means that the notebook has been turned on at least once since the partial installation of Windows, and Windows has registered the fact that the final installation was not completed

at that time. You can ignore the safe recovery message and proceed.

3. The setup program will ask for the language and layout of your keyboard. Select the appropriate items from the list provided and proceed.

4. Setup will then ask for your name, and company name if applicable. Enter the information and proceed.

5. Setup will then display the Windows license agreement. This document details the terms and condition under which you are licensed to use the Windows software. You must read it over and then click on the "I accept the agreement" check box in order to proceed.

6. Setup will then ask you to type in the registration number on the Certificate of Authenticity (COA). The COA is generally pasted on the front cover of the Windows manual that is shipped with this system.

7. Setup will then begin to configure your computer. After a while, you will be asked to restart the computer.

8. When the notebook has restarted, setup will ask you to select a printer for your system. You can select a printer at this time, or leave it till later if you prefer.

9. Setup will then display a Time Zone window. Select the correct time zone for you location, and reset the time and date.

10. At the end of the setup session, a backup utility appears which allows you to make backup diskettes of the Windows operating system. This requires two or more boxes of diskettes. If you have a Windows CD-ROM, or Windows diskettes, you can ignore this procedure, or delay it to a later time.

You can learn a lot about your computer by using the windows My Computer utility, located on you desktop. If you click on the icon, it will show a graphical representation of the media devices on your system.

Note: The above installation procedure only for reference, because different Operating System has different installation procedure.

System Setup and Installation

Note: *This section describes a typical procedure for rebuilding a hard disk drive. You may not need to carry out every step on your own hard disk. Read all the README files that ship with the support software. They may contain important information that is not included here.*

1. Place a Windows boot diskette in the floppy diskette drive and turn on your system.
2. If you are creating new partitions on the drive, use the Windows FDISK program to create the partitions.
3. Use the Windows FORMAT program to format the new partitions.
4. After format the new partition, install your Windows CD in the optical device. The Windows installation should begin automatically. If it doesn't begin automatically, run the SETUP program on the disk.
5. Follow the instructions to install Windows.
6. After a successful Windows installation, place the utility software CD in the optical device and start installing the drivers and utilities that you need for the system. Depending on the configuration of your notebook, you may not need to install all the software on the utility CD.
7. The software is installed in separate folders, and there may be sub-folders which contain different language versions, or different versions for different operating systems such as Win XP, Win 2000, Win ME, Win 98SE and so on. The names of the folder will indicate what they contain.
8. Look for a README file inside the folder of the software that you are about to install. It may contain special installation instructions, or updated information that is not included in this section.
9. Look for the installation program and run it. This program is usually called SETUP or INSTALL. Follow the instructions on the screen to install the drivers and/or utilities.

10. You will probably need to install the following software from utility CD:

Video: SIS/VGA

Audio: SIS/Audio

LAN: SIS/LAN

MDC: MDC(MODEM)

Quick Button : Utility/Qbutton/QB

Touchpad: Driver/TouchPad/

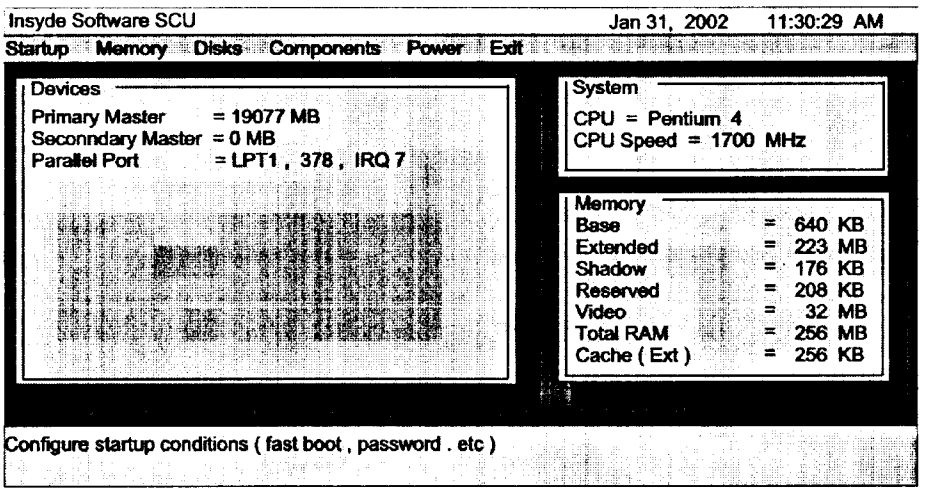
CHAPTER 3: CONFIGURING THE NOTEBOOK

System Configuration Utility

The System Configuration Utility (SCU) lets you use the firmware installed on the notebook to configure your system according to the kind of hardware that you install. Using setup, you can define drive specifications, control power management, and so on.

Using the System Configuration Utility

You can only display the setup utility by pressing the **F2** key combination shortly after the system is turned on. A prompt appears on the screen that reads *"F2 to enter System Configuration Utility"*. When you see this prompt, press the key combination and the setup utility will display the main page of the System Configuration Utility program.



Navigating

The main screen of the utility program is divided into three major sections.

The top section holds a menu bar.

The middle section shows three windows, i.e. *Devices, System* and *Memory*. These windows provide a quick overview of the current setup settings of your system. Some values are detected automatically while other values are set to a default value and can be changed through the menu bar at the top of the screen.

The third section, at the bottom of the screen, displays hints messages relevant to the topic highlighted at the moment.

[Alt]: Press the Alt key to activate menus.

Cursor arrow keys: Lets you move and highlight through the header list of setup windows.

[Enter]: When the option you need is highlighted, press this key to select an option.

[Esc]: Cancels the current action, closes a menu, returns you to the main menu, and/or exits the System configuration Utility program.

Startup, Memory, Disks, Components, Power, and Exit, is the principal options in the main menu bar for system configuration. When you select one of these options, the screen displays a list of items in a drop down menu. Some items you can only enable or disable. Others bring up a separate dialog box once you select them.

_ Or V: Items that can only be disabled or enabled.

Within a dialog box you can use:

[Tab] to select a control.

[OK] or **[Enter]** to confirm an entry.

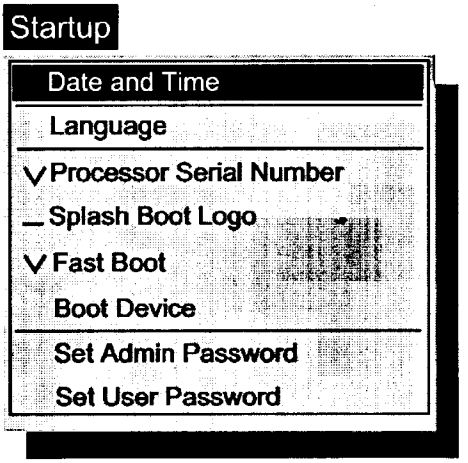
[Cancel] or [Esc] to cancel an entry.

To change the value of a field, use the cursor keys, space bar, and/or numeric keys.

At any given point, you can use the **[Alt]** key in combination with a letter, highlighted red, and use it as a shortcut to jump directly to that function.

Startup

This option displays basic information about your system and hardware.



Date and Time

When you select this option, a dialog box will pop up allowing you to customize the date and time to be used by the system clock.

Language

This option let you choose most suitable keyboard language including English、German、Japanese.

Process Serial Number

You can either enable or disable this option. If enable and use CPU program in this system then you can see your CPU's Serial Number.

Splash Boot Logo

When you select this option then save and restart the system. You can see your vendor's logo in screen between booting process.

Fast Boot

You can either enable or disable this option. If enabled you allow the system to boot fast without first testing all functions.

Boot Device

When you select this option, a dialog box will pop up allowing you to customize the order of devices the system tries to boot from consecutively. You can choose from three devices: Hard disk C, CD-ROM Drive, and Diskette A. Set the most important boot device in the 1st Boot Device box, and continue with the second and third box. The system will only move on to the alternative boot devices after a previous one failed. The default setting is A -> C -> CD-ROM.

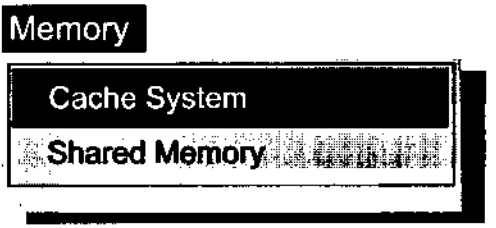
Set Admin Password

When you select this option, you can set the administrator password. Once being set, the administrator password is always required for starting up to the system and entering SCU.

Set User Password

The user password is under the supervision of the administrator password. You can set the user password to be required for starting up the system and/or entering SCU when the administrator password has been set. Beside, the user password only allows you to use some limited items for setting in the SCU.

Memory



Cache Systems

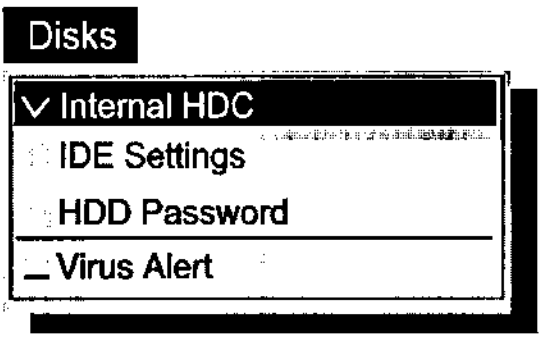
When you select this option, a dialog box will pop up allowing you to customize the system's use of Cache memory. The default setting is Write Back.

Shared Memory

When you select this option, a dialog box will pop up allowing you to

change the memory size that you want to share for video memory.

Disks



Internal HDC

You can either enable or disable this option. Set this option to enable in order to use the internal hard disk drive.

IDE Settings

When you select this option, a dialog box will pop up allowing you to set the IDE setting with HDD timing and transfer rating.

HDD Password

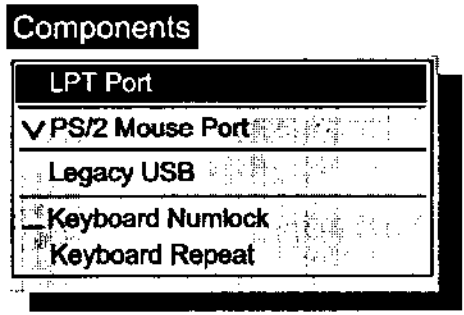
When you select this option, you can set password for your Hard Disk.

Virus Alert

You can either enable or disable this option. When this option is enabled, your computer will be protected to some degree against computer viruses, which try to infect the boot sector of disks and diskettes. If you ever need to create a new partition structure on your disk drive, you might need to set this option to disabled.

Components

Use the components item on the menu bar to configure some of the peripheral devices found in your notebook.



LPT Port

When you select this option, a dialog box will pop up allowing you to customize the parallel port located on the rear of the notebook.

PS/2 Mouse Port

You can either enable or disable this option. If disabled you will not be able to use the internal touchpad.

Legacy USB

You can either enable or disable the system's support for the USB port in DOS mode. This item includes USB Keyboard and USB Floppy . The default setting is enabled.

Keyboard Numlock

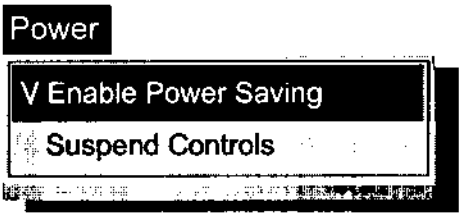
You can either enable or disable this option. If enabled the keyboard Numlock function will always be on by default when you start your system.

Keyboard Repeat

When you select this option, a dialog box will pop up allowing you to customize the keyboard auto repeat rate and repeat delay. These options set the reaction speed of your keyboard to your typing.

Power

Use the power item on the menu bar to define the progressive power reduction of your computer when it is not being used.



Enable Power Saving

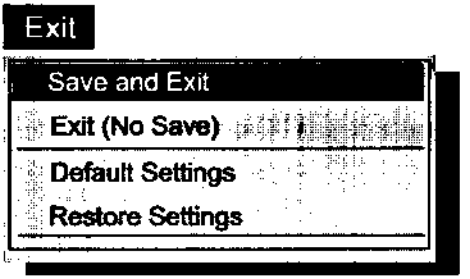
You can either enable or disable this option, which acts like a master switch for all the other power down functions on this menu. If you disable this field, none of the other system powerdowns in the setup program will function and will thus be grayed out. If it is enabled, you are able to set more specific power saving functions through the other options on the menu.

Suspend Controls

When you select this item, a dialog box will pop up allowing you to manually customize some Suspend controls.

Exit

When you have made changes to the setup utility, either press the [Esc] key, or highlight the Exit option on the menu bar.



Save and Exit

When you select this item, a dialog box will pop up asking you to confirm your choice to save the changes you just made and restart the computer. This dialog box will also appear if you press the [Esc] key in the main screen area of the system configuration utility.

Exit (No Save)

When you select this option, a dialog box will pop up asking you to confirm your choice to discard any changes you just made and restart the computer. The computer will then restart using the old values.

Default Settings

When you select this option, a dialog box will pop up asking you to confirm your choice to load the default values for all fields. The computer does not restart. You must use the Save and Exit option above to restart the computer using the default values.

Restore Settings

When you select this option, a dialog box will pop up asking you to confirm your choice to restore the current setup values to the original custom values. The computer does not restart. You must use the Save and Exit option above to restart the computer using the default values.

Using Your Notebook

This chapter describes some of the built-in hardware and software features of your notebook.

Video Display

The flat-panel screen is a large, color liquid crystal display (LCD) panel. The screen uses a technology called TFT (Thin Film Transistor) that provides a very high contrast display. You can adjust the brightness of the display by using the video hot keys.

Settings

Left-click on the settings tab to display the basic display settings of your notebook display. Here you can set the color depth and screen resolution. The Advanced Properties button allows access to the video graphics software driver, 3D settings (SiS 650 chipset), monitor settings, color management, display modes and performance.

Setting the External Monitor & Television

This computer supports Single, Mirror and Multi-monitor three display modes that provide the user to setting their displays device such as external monitor or television.

Single Mode: This mode only provides display in internal LCD or external monitor or television.

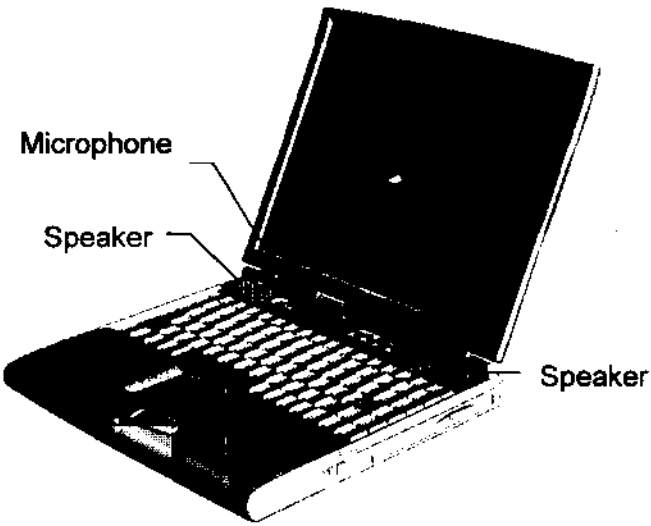
Mirror Mode: This mode provides the external monitor or television displays the same contents as the internal LCD.

Multi-Monitor Mode: This mode provides the desktop expansion function. You can expand you're the desktop to another display device.

You can use the Advanced Properties in the Display Properties to configure your display modes. Beside, before change the display modes please disable the auto detect function first

The Sound System

The sound system includes the built-in microphone and speakers, the audio circuitry, the sound ports, and the audio software.

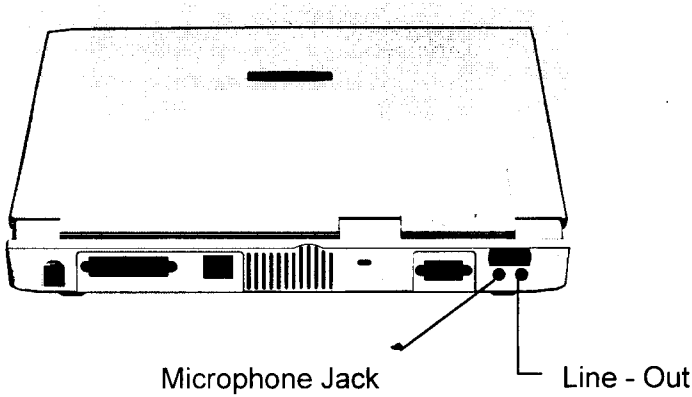


When a sound file is playing, you can use the audio function keys to turn the speakers on or off, or raise and lower the volume of the speakers.

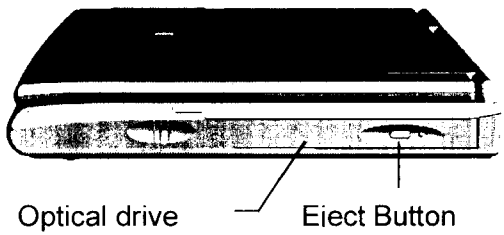
Note: The audio volume function keys only affect the audio file currently playing. If you want to change the notebook's default sound volume, use the Windows audio utilities.

Sound Ports

Use the microphone jack to connect an external microphone to the notebook. Use the speaker jack to output the notebook's sound to external loudspeakers, headphones or other audio device. When the jack is used, the built-in speakers are disabled.



Using the Optical Drive



The optical drive uses removable 5.25-inch silver discs, which installed in the right side of the notebook. Depending on the model, your drive is one of the following:

1. CD-ROM drive can read data CDs, audio CDs, CD-R and CD-RW discs.
2. DVD-ROM can read DVD discs in addition to the above discs.
3. CD-RW drive can write to CD-R and CD-RW discs in addition to CD-ROM function.
4. COMBO drive can work both as a DVD-ROM drive and CD-RW drive.

Inserting and removing a CD

Please follow the following procedure to insert or remove a CD.

1. Turn on the computer.
2. Press the eject button on the front of the drive. When the disc tray opens, carefully pull it all the way out of the drive.
3. Place the CD in the drive tray with the label side up. Press the disc down carefully so that the central spindle on the CD tray inserts into the hole in the center of the CD.

   To removable a CD, hold the CD by its outer edge and lift it up from the tray
4. Gently push the tray back into the drive.

Battery and Power Saving

About the Battery Pack

The battery pack contains Lithium-Ion (Li-ION) that can be installed in the right device bay.

Caution: Only use the battery pack that is supplied with this notebook. If you need a replacement battery, ask your system vendor for a replacement. Never try to use a battery pack that is not designed and approved for use in this notebook.

Battery Charging

When the battery pack is installed in the right device bay and the computer is connected to a power supply with the AC adapter, the battery pack automatically gets charged.

You can check on the charging status of the battery using the right side power indicator, located on the front edge of the keyboard area.

Battery Discharging

When your notebook is turned on and not connected to a power supply, it will operate by discharging the battery. A fully charged battery will power the notebook for about 1.0 ~ 1.5 hours. Battery life is reduced if your notebook is consuming a lot of energy; for example playing sound

files and frequently accessing disk drives. Battery life will also be reduced if your battery is not in good condition.

Battery Low Warnings

Your notebook will alert you to a low battery condition by emitting a continuous beeping sound. This warning happens when the battery has only 10% of total charge remaining.

If you continue using your computer after the battery low warning, the notebook will continue to operate normally until the charge level drops to around 5% of total charge. At this point, ***without warning***, the notebook will automatically save to disk and turn off the system.

Using Power Management

This notebook supports APM (Advanced Power Management) and ACPI (Advanced Configuration and Power Interface) for power management. When you are running your notebook from the internal battery, it is important that you use the power management routines to reduce the system power consumption. They routines consist of a series of power saving modes; suspend to RAM mode, and suspend to Disk mode.

Suspend to RAM

In a Suspend-to-RAM, the contents of your computer's memory are held intact, while practically all the rest of the components in your notebook turn off completely, or reduce power consumption to a minimum. In a Suspend-to-RAM, your computer remains active but with the minimum possible power consumption. You can return the computer to full power by pressing [Fn] + [F2]. If you are operating your notebook on battery power, a fully charged battery can maintain a Suspend-to-RAM for many hours.

Suspend to Disk

Suspend-to-Disk is really another way of turning off your computer. When you suspend to disk, the contents of your computer's memory are copied to your hard disk drive as a file. When the contents of the memory have been safely stored to disk, your computer turns off. The next time the computer is turned on after a Suspend to disk, the file on the hard disk is quickly read back into memory. In just a few moments,

your computer appears exactly as it was when you last suspended to disk.

Suspend to disk is very useful for Windows users who like to have many different programs open on the Windows desktop. You can take quite a few minutes to get a busy Windows desktop up and running, and then you have to shut down each program one by one when you want to turn off your computer.

Initiating Standby or Hibernate Mode

This notebook computer does not support standby or hibernation mode automatically. But you can follow the following procedure initiating standby or hibernation mode.

The following is power management setting under windows Operating System environment:

1. Click "Start", then "Settings", then "Control Panel".
2. Start the "Power Management" item.
3. Select the "Hibernate" page, select "Enable hibernate support "click "Apply" button.
4. Select the "Advanced" page, see the power button area and select lids, power button or sleep button to Standby (if you want to press "Fn+F2" then enter Suspend to RAM, please select "Standby" in sleep button, but if you want to press "Fn+F2" then enter Suspend to, Disk please select "Hibernate" in sleep button), then press "OK" button.

Using a Security Locking Cable

This is a strong flexible cable that has a lock at one end and a loop at the other. You can loop the cable around an immovable fixture, and then lock the other end of the cable into your notebook.

Your notebook has an anchor point for the locking mechanism on standard notebook security cables. It is located on the rear side of the notebook.

CHAPTER 5: EXPANDING THE NOTEBOOK

Upgrading and Options

Caution: *We recommend that you contact your dealer and ask them to install any additional components or optional modules. Installing these components yourself may cause damage to your system.*

Installing Memory

This notebook has one memory compartment, which contains one 200 pins socket for DDR (Double Data RAM) module.

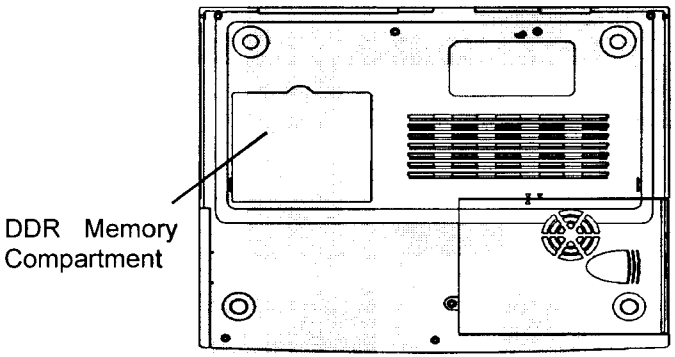
Warning: *Before any memory is installed, it must select the correct speed rating. If the memory has an incorrect speed, it can affect the performance of your machine or even damage the system. We recommend that you obtain approved memory modules from your system vendor.*

The memory compartment is located in the base of the notebook. Install extra memory as follows:

1. Before you begin, turn off your computer, disconnect the AC adapter, and remove the internal battery.
2. Take precautions to prevent static electricity causing damage to your memory card as follows:
   - If you can, wear a grounding wrist strap that's connected to a safely grounded connection during the installation.
   - Discharge any accumulated static electricity by touching the metal case of a safely grounded device before beginning the installation.

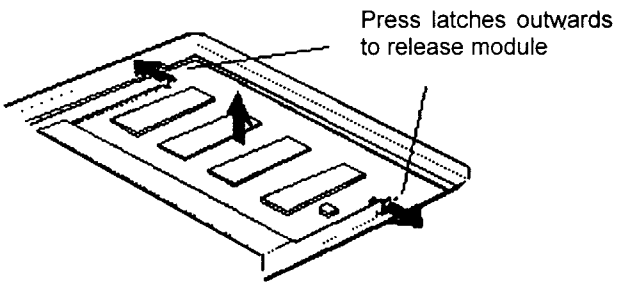
- Leave all electronic components inside their static-proof packaging until they are required for the installation.
- Handle all circuit boards and electronic components carefully. Hold boards by the edges only. Do not flex or stress circuit boards.

3. Locate the memory compartment cover and remove the locking screw. Use a narrow-bladed screwdriver to pry the cover out of the base by levering **the cover upward.**



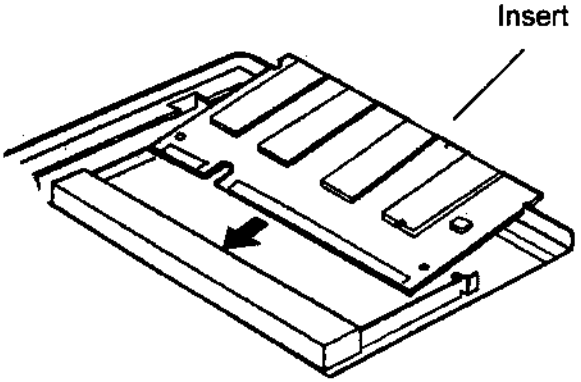
4. Inside the memory compartment, you will see one socket for DDR Memory module.

5. Pull these locking latches outwards. This will allow the socket and module to pop up to an angle of about 20 degrees. You can then slide the module out of the DDR socket.



6. Hold the new module at the same angle as the socket and slide the edge connector side of the module into the socket. The edge connector has a cut-out and the socket has a notch so that it can

only be installed in the correct way. Press the module into the socket until you can no longer see the gold-teeth of the edge connector.



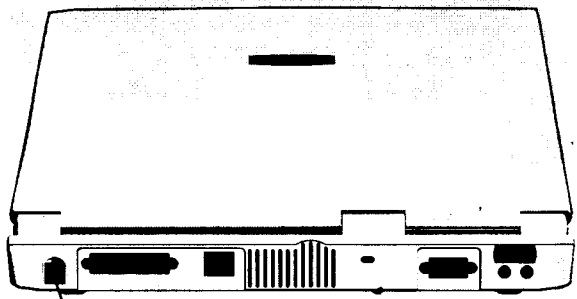
7. Press the module down into the memory compartment, and hold the card down flat inside the compartment.
8. Replace the memory compartment cover and secure it with the locking screw.
9. Reconnect the AC adapter and/or replace the internal battery. Restart your notebook. When the system POST (power on selftest) appears, you can verify that the system has automatically recognized the new memory configuration.

Modem

The internal 56K fax/data modem can be an invaluable tool when you take your notebook on the road. With appropriate software installed, you can make a remote connection to your office computer or Local Area Network. Using the Internet, you can send and receive E-mail, and use the World Wide Web to gather data and resources.

Using the Modem

The fax/data modem is an internal module. You can use a modem cable to connect the notebook to a wall telephone outlet. Or you can disconnect the cable from a telephone, and connect it to your notebook temporarily.



RJ-11 Jack for
Fax/data Modem

Internet and the World Wide Web

One of the most useful functions of your modem is to allow you to connect to the Internet or to browse the World Wide Web. The Internet is not a network, but a vast interconnection of networks. The Internet provides a connection to the world. You can send messages to anywhere on Earth. You can log in and use library catalogues. World Wide Web browsers, such as the Microsoft Internet Explorer browser built into Windows, allow you to have access to text, images, sound and video stored on the Internet. To enter the Internet, you will need to log your computer into one of these networks.