

## **Prestigio Visconte1300**

### **User's Manual**

#### Notice

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Rev 1.0



## Preface

### Using This Manual

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This User's Manual contains general information about the hardware and software setup, troubleshooting, and technical specifications of the notebook computer.

**Warning:** Text in this format and symbol means that failures to comply with the given instructions or information could result in damage to your computer or could cause bodily harm or loss of life.

## Protecting Your Computer - Avoid Abusive Handling and Adverse Environment

Follow the advice below will help ensure that you get the most out of your Investment.

### Your computer will serve you well if you take good care of it.

- . Do not expose the computer to direct sunlight or place it near sources of heat.
- . Do not subject it to temperatures below 0oC (32oF) or above 30oC (86oF).
- . Do not expose the computer to magnetic fields.
- . Do not expose the computer to moisture or rain.
- . Do not spill water or liquid on the computer.
- . Do not subject the computer to adverse shock and vibration.
- . Do not expose the computer to dust and dirt.
- . Do not place objects on top of the computer to avoid damaging the computer.
- . Do not place the computer on rocky surfaces.

### Here are some ways of taking care of your AC adapter.

- . Do not connect the adapter to any devices other than your computer.
- . Do not let water get into the adapter.
- . Do not block the ventilation airway of the adapter.
- . Keep the adapter in a cool and ventilated place.
- . Do not step on the power cord or place heavy objects on top of it.
- . Carefully tuck away the power cord and any cables away from pedestrian traffic.
- . When unplugging the power cord, do not pull on the cord itself but pull on the plug.
- . Keep the adapter away from children.
- . The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension cord.
- . The total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.
- . Do not connect other AC adapter to your notebook. This Notebook uses exclusively the AC adapter: Liteon PA-1650-01 (20V, 3.25A, 65W), Liteon PA-1650-02 (20V, 3.25A, 65W), Lishin 0335A2065 (20V, 3.25A, 65W), Lishin 0335C2065 (20V, 3.25A, 65W), EPS F10653-A (20V, 3.25A, 65W)





### When cleaning the computer, observe these steps:

1. Power off the computer and remove the battery pack.
2. Disconnect the AC adapter.
3. Use a soft cloth dampened with water. Do not use liquid or aerosol cleaners.

### Contact your dealer or see your service technician if any of the following occurs:

- . Computer has been dropped or the body has been damaged.
- . Liquid has been spilled into the product.
- . The computer does not operate normally.

### Cleaning the Ventilation Grills:

It is suggested that you clean the ventilation grills regularly to maintain optimal thermal regulation of the notebook. To do this, you may use a soft brush or a vacuum cleaner (with appropriate head adapter) to remove the dust buildup on the ventilation grills.

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## GETTING TO KNOW THE BASICS

This chapter introduces the features and components of the computer.

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### Performance Features

#### **High Performance Processor with Napa Chipset**

The notebook PC is equipped with a powerful Mobile Intel Pentium M dual-core or Mobile Intel Pentium M single-core processor. Together with the latest Napa chipset and technologies, the system offers very advanced PC performances.

#### **Advanced Graphic Engine**

The Intel 945GM Express chipset is integrated with the next-generation Intel Graphics Media Accelerator GMA950. The new graphic engine provides enhanced multimedia MMX support and better performance than its previous generation.

#### **LCD Display**

The computer is equipped with a wide 13-inch or 13.3-inch TFT high-resolution display panel for clear text and brilliant colors.

#### **Expandability**

The system offers upgradeable hard disk drive and 2 DDR SDRAM sockets for expansion, allowing the user to easily increase the storage and system capacities as the need arises.

#### **Built-in Multiple Card Reader**

There is built-in 4-in-1 card reader to access many of the portable media formats (SD Card, MS Card, MMC Card, and MS-Pro Card).

#### **Gigabit Ethernet Port**

The system provides built-in 10/100/1000Mbps Ethernet network adapter for high bandwidth network connection.

#### **Firewire (IEEE1394 / 1394a) and USB2.0 ports**

In addition to a full array of built-in I/O ports, the computer offers IEEE1394 for ultra high-speed connection to high bandwidth digital video devices and USB2.0 ports to connect to any USB-based peripheral devices.

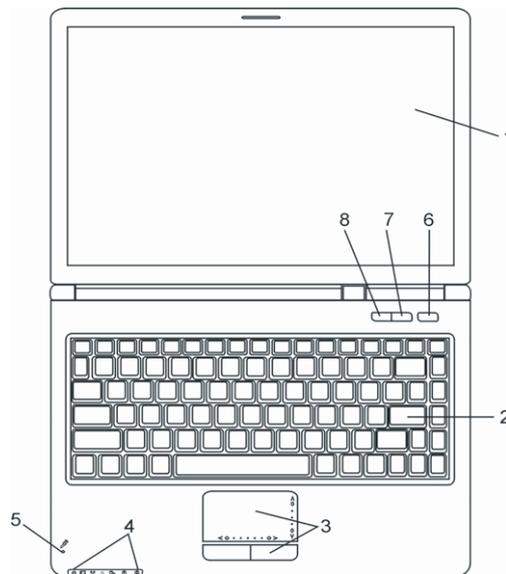
#### **Wireless LAN**

The internal Wireless LAN module allows your notebook to connect wirelessly to other 802.11-enabled systems, devices, or network.



## System At A Glance

### Top View



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#### 1. LCD Display

The panel is where the system content is displayed.

#### 2. Keyboard

The keyboard is used to enter data. It has an embedded numeric keypad and cursor control keys. (See Keyboard Section for details.)

#### 3. Touch Pad

The touch pad is a built-in pointing device with functions similar to a mouse.

#### 4. LED Status Indicator

The LED Status indicators reveal the status of these functions: Numeric keypad, cap lock, scroll lock, WLAN module enabling and disabling and also the ODD, HDD activities. (See the LED Status Indicator Section for details.) The LED Status indicators also reveal the status of the system power state and battery-charging state. See the LED Status Indicator Section for details.

#### 5. Built-in Microphone

The built-in microphone records sound.

## 6. Power / Suspend Button

The power/suspend button turns the notebook on and off and it also acts as a system suspend key. Press momentarily to turn on the system. Press and hold for at least 4 seconds to turn off the system. How this key behaves can be defined in [Start > Settings > Control Panel > Power Options > Advanced] menu. Press the power / suspend button again to return from the suspend mode. (See Chapter 3 for more details on system suspend function.)

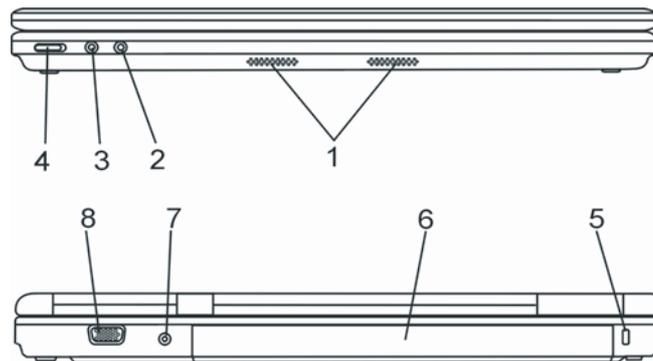
## 7. Silent Mode Button

Pressing the key enables the system to lower its power usage; therefore the fan speed is reduced to achieve lowest operating noise.

## 8. Windows Media Player Quick Key

Pressing the button launches Media Player in Windows.

## Front and Rear Views



**Warning:** Do not place any heavy objects on the top of notebook. This may damage the display

## 1. Built-in Stereo Speakers

The built-in speakers output the sound in stereo.

## 2. Microphone Jack

The microphone jack (3.5-mm diameter) is where you connect a microphone.

## 3. Stereo Headphone

The stereo headphone jack (3.5-mm diameter) is where you connect the headphones or external speakers.

## 4. Wireless On/Off Switch

Use the Switch to disable or enable the Wireless function.



## 5. Kensington Lock Key Hole

A Kensington-type security lock latches to this keyhole for anti-theft purpose.

## 6. Battery Pack

The battery pack is a built-in power source for the notebook.

## 7. Power Jack (DC-in)

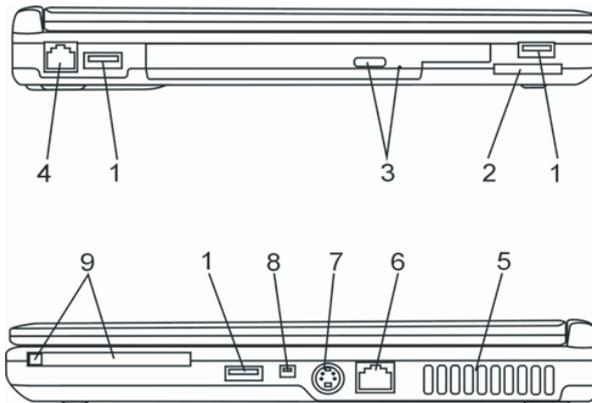
The DC-out jack of the AC Adapter connects here and powers the computer.

## 8. External VGA Port

The VGA video output port is for connecting the external LCD monitor or projector.

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## Side Views



Warning: Do not place any heavy objects on the top of notebook. This may damage the display

## 1. USB2.0 Port (x3)

The Universal Serial Bus (USB2.0-compliant) port allows you to connect a wide variety of devices to your computer at a rate of up to 480 Mbps. This port conforms to the latest USB2.0 plug-and-play standards.

## 2. 4-in-1 Card Reader

The 4-in-1 Card Reader supports SD Card, MMC Card, and MS Card.

## 3. Optical Drive and Disk Eject Button and Manual Eject Key Hole

If your computer comes with the Combo drive, DVD-Dual drive, Super-Multi drive, you may save data onto a CD-R / CD-RW or DVD RW disc. Press the eject button to eject the disk tray. The manual eject keyhole allows you to manually eject a jammed disk.



#### 4. Modem Port

This is where you plug the phone jack (RJ-11) for fax/modem functions.

#### 5. Ventilation Grill

The fan grill is where air is exchanged to dissipate the internal heat. Do not block this airway completely.

#### 6. Gigabit Ethernet / LAN Port

The port connects to a network hub via the RJ-45 cable and also conforms to 10/100/1000Base-TX transmission protocol.

#### 7. TV (S-Video) Port

The S-Video port permits you to redirect the screen output to a television set or any analog video playback device. This TV Port is copyright protected; when DVD movie is played, the output is scrambled to prevent analog recording.

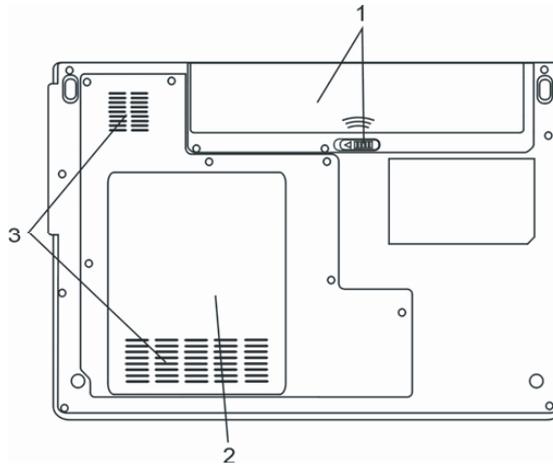
#### 8. Firewire / IEEE1394 / 1394a Port

This is a high-speed serial data port. You may connect any Fire-wire-ready device to this port.

#### 9. PC Card Slot (Type II PCMCIA) and Card Eject Button

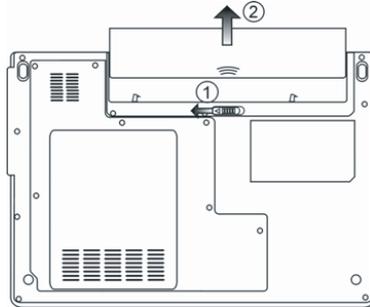
The slot is where PC Card (Type II PCMCIA) is inserted. Press the eject button to release the PC Card.

### Bottom View



#### 1. Battery Pack and Battery Latch

The battery pack is a built-in power source for the notebook. Slide the battery latch to release the battery pack.



## 2. System Device Cover

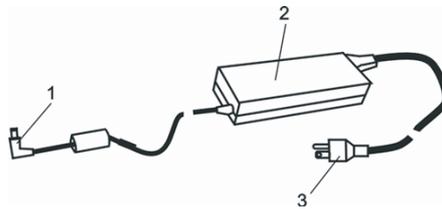
The system's processor with cooler assembly, Wireless LAN module, HDD and DDR memory module are located under the case cover. The system memory and hard disk drive can be upgraded to a larger capacity.

## 3. Ventilation Grill

The fan grill is where air is exchanged to dissipate the internal heat. Do not block this airway completely.

**Warning:** Do not block the Fan Grill outlet. Place the machine on hard surface only. The bottom case may get very hot.

## AC Adapter



### 1. DC-out Connector

The DC-out connector docks to the power jack (DC-in) on the computer.

### 2. Adapter

The adapter converts alternating current into constant DC voltage for the computer.

### 3. AC Plug

The AC plug plugs to the AC wall outlet.

**Warning:** Make sure you are using a standard 3-prong AC wall socket with a ground pin. If not, you may feel a slight tingling sensation on any of the computer's metal parts such as the I/O ports. This is caused by leakage current when the AC adapter is not properly grounded (via the ground pin). However, the amount of leakage current is within the safety regulation and is not harmful to human body.

## LED Status Indicator

The LED Status Indicator displays the operating status of your notebook. When a certain function is enabled, an LED will light up. The following section describes its indication.

### System & Power Status Indicators

LED Graphic Symbol	Indication
	Blue light indicates the system is powered on. Blinking blue light indicates the notebook is in suspend mode.
	Blinking orange light indicates the battery is being charged. Blinking green light indicates the battery level is low when the system is turned ON.
	Blue light indicates the WLAN module is active.
	Green light indicates the hard drive and/or optical drive is being accessed.
	Green light indicates the numeric keypad is activated.
	Green light indicates the cap-lock is activated.
	Green light indicates the Silent Mode or Instant-On is active.

## Keyboard Features

### Function Keys (Quick Keys)

Graphic Symbol	Action	System Control
	Fn + F3	Turns off the LCD backlight.
	Fn + F4	Enters Suspend Mode.
	Fn + F5	Changes Display Mode: LCD-only, CRT-only and LCD&CRT.
	Fn + F6	Decreases Display Brightness.
	Fn + F7	Increases Display Brightness.
	Fn + F8	Turns Speaker Volume down.
	Fn + F9	Turns Speaker Volume up.
	Fn + F10	Audio Mute on or off.

Graphic Symbol	Action	System Control
	Fn + Num Lk	Enables the embedded keypad to work in numeric mode. The keys act like numeric keypads in a calculator. Use this mode when you need to do a lot of numeric data entry. An alternative would be to connect an external numeric keypad.
	Fn + Scr Lk	Press the Scroll Lock key and then press $\wedge$ or $\vee$ to move one line up or down.

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For various system controls, press the Fn (Function) key and the Fx key simultaneously.

## Windows Keys

Your keyboard also has two Windows keys:



### 1. Start Key

This key allows you to pull up the Windows Start Menu at the bottom of the taskbar.

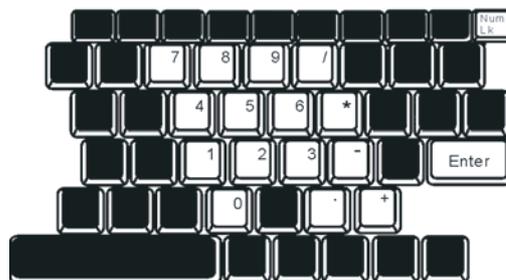


### 2. Application Menu Key

This key brings up the popup menu for the application, similar to a click of the right mouse button.

## Embedded Numeric Keypad

Press Fn+NumLk to enable the embedded numeric keypad. The numbers are printed in upper right corner of a key, in a color different from the alphabets. This key pad is complete with arithmetic operators (+, -, \*, /). Press Fn+NumLk to revert to normal character keys.



## Touch Pad

The built-in touch pad, which is a PS/2-compatible pointing device, senses movement on its surface. As you move your fingertip on the surface of the pad, the cursor responds accordingly.

The following items teach you how to use the touch pad:

1. Move your finger across the touch pad to move the cursor.
2. Press buttons to select or execute functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touch pad twice produces is similar to clicking the left button of a mouse.

Function	Left Button	Right Button	Equivalent Tapping Action
Execution	Click twice quickly		Tap twice (at the same speed as double-clicking the mouse button)
Selection	Click once		Tap once
Drag	Click and hold to drag the cursor		Tap twice quickly and on the second tap hold finger to the touch pad to drag the cursor
Access Context Menu		Click once	
Move One Page Up or Down			

### Tips on Using the Touch Pad:

1. The double-click speed is timed. If you double-click too slowly, your notebook responds as if you single-clicked twice.
2. Keep your fingers dry and clean when using the touch pad. Also keep the surface of touch pad clean and dry to prolong its life.
3. The touch pad is sensitive to finger movements. Hence, the lighter the touch, the better the response. Heavy touch does not produce better response.

## Graphic Subsystem

Your computer uses a high performance 13-inch or 13.3-inch active matrix TFT panel with high resolution and multi-million colors for comfortable viewing. The Intel integrated GMA950 video graphics accelerator, which is Microsoft DirectX 9 compatible, performs graphic rendering at a lighting-fast speed.

### Adjusting the Display Brightness

The notebook uses special key combinations, called hot keys, to control brightness.

Press Fn+F7 to increase the brightness.

Press Fn+F6 to decrease the brightness.

**Note:** To maximize your battery operating time, set the brightness to the lowest comfortable setting, so that the internal backlight uses less power.



## Extending the Life of the TFT Display Device

Observe the following guidelines to maximize the life of the backlight in the display.

1. Set the brightness to the lowest comfortable setting (Fn+F6).
2. When working at your desk, connect your notebook to an external monitor and disable the internal display Fn+F5.
3. Do not disable the suspend time-outs.
4. If you are using AC power and have no external monitor attached, change to suspend mode when not in use.

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## Opening and Closing the Display Panel

To open the display, simply lift up the lid. Then tilt it to a comfortable viewing position.

To close the display cover, fold it down gently.

**Warning:** To avoid damaging the display, do not slam it when closing. Do not place any object on top of the computer when the display is closed

## Audio Subsystem

Your computer's audio subsystem is Sound Blaster Pro-compatible.

### Adjusting the Volume Manually

To increase the volume, press Fn+F9.

To decrease the volume, press Fn+F8.

### Adjusting the Audio Volume in Windows

1. Click the speaker symbol in the task tray in Windows.
2. Drag the volume control bar up or down to adjust the volume.
3. To temporarily silence the speaker without changing the volume setting, click Mute.

### Voice Recording

A built-in microphone allows you to record sound. You will need to use audio processing software to enable the built-in microphone. For example, you may use Microsoft Sound Recorder.

## Modem

Your computer comes with a 56K V.92 internal fax/modem and a phone jack (RJ-11), which is located on the left side of your computer. Use a telephone cable to connect the computer to the telephone wall outlet.

### Connecting the Modem

1. Plug one end of the phone line into the modem port located on the rear side of the computer. (For EMI compliance, you need to clip the included EMI CORE to the phone line.)
2. Plug the other end of the line into the analog phone wall outlet.



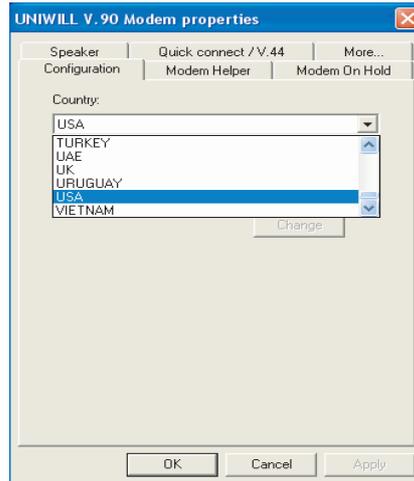


Depending on where your computer is used, you may need to change settings in the modem. Correct setting will allow you to maintain a stable connection in a country where its telecommunication system may be different to others.

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### To change the modem setting, do the following:

1. Go to [Start > Settings > Control Panel] and double-click on Modem Settings icon. You will see a similar dialog box.



2. Click on the pull-down menu and select the country where it is applicable. Click on OK to exit.

## Ethernet

Your computer is equipped with a 10/100/1000Base-TX Fast Ethernet network adapter. Connect the active LAN cable to the RJ-45 LAN port located on the left side of the computer. This allows you to access and transmit data in the local area network.

### Connecting to the Network

Use Unshielded Twisted Pair (UTP) Ethernet cable only.

1. Insert one end of the UTP cable into the network connector until the connector snaps securely into the receptacle.
2. Either connect the other end of the cable to an RJ-45 jack wall outlet or to an RJ-45 port on a UTP concentrator or hub in the network.

### Cabling Restriction for Networks

The following restrictions should be observed for 10/100/1000BASE-TX networks: The maximum cable run length is 100 meters(m) (328 feet[ft]). For 100Mbps or 1000Mbps operations, use Category 5 wiring and connections.

**Note:** Consult Windows manual and / or Novell Netware user's guide for the software installation, configuration, operation of the network.





## BATTERY POWER & POWER MANAGEMENT

In this chapter, you will learn how to operate your notebook on battery power, how to handle and maintain the battery pack, and learn about the system's power saving features.

TFT display, central processor, hard disk drive are the major hardware subsystems that consume the most power. Power management deals how these key components should behave to conserve power. For example, you can have the system turn off its display after 2 minutes of inactivity to save power. Efficient power management can help you work longer sessions before having to recharge the battery.

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### The Battery Pack

#### Lithium-Ion Battery

Your notebook uses a six-cell Lithium-Ion battery pack that provides power when you don't have access to an AC outlet.

**Note:** It is necessary that you charge the battery pack for at least 6 hours before using it for the first time. **Note:** In the Standby Suspend mode, a fully charged battery loses its power in roughly 1/2 day or less. When not being used, the battery's power will deplete in 1-2 month.

#### Battery Low-Power Warning

##### 1. Low Battery Warning

Low battery condition occurs when battery power is reduced to 6%. The red battery status LED indicator blinks and the system beeps once every 16 seconds or so.

##### 2. Very Low Battery Warning

Very Low battery condition occurs at 3 % power remaining. The red battery status LED indicator blinks and the system beeps at 4-second interval.

When the notebook warns you of its low battery condition, you will have about 3-5 minutes to save your current work.

**Warning:** Do not expose battery packs to temperatures below 0 degree Celsius (32 degree F) or above 60 degree C (140F). This may adversely affect the battery pack.

**Note:** Press Fn+F3 to turn off the battery warning beep.



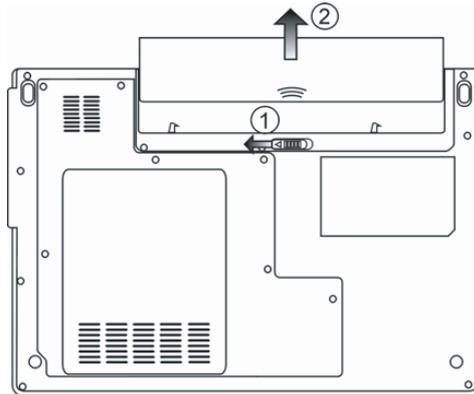


## Installing and Removing the Battery Pack

### To Remove the Battery Pack:

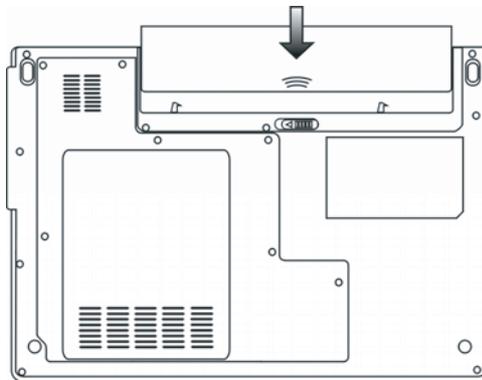
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1. Place the notebook bottom-side up on a flat and secured surface.
2. Push the latch and pull the battery's hard case away from the notebook.



### To Install the Battery Pack:

1. Place the notebook bottom-side up on a flat and secured surface.
2. Carefully insert the battery pack into the battery compartment of the notebook.



## Charging the Battery and Charging Time

"To charge the battery, while the battery pack is in the notebook, plug the AC adapter into the notebook and an electrical outlet.

The charging time is approximately 4-6 hours when the notebook is turned off and approximately 6-10 hours when the notebook is turned on.

When the battery is fully charged, the battery charge indicator becomes green.



**Note:** If system runs at heavy loading or in a high temperature environment, the battery may not be fully charged. You need to continue to charge it with the AC adapter plugged in until the charging LED turns green.

## Checking the Battery Level

You can check the remaining battery power in the Windows battery status indicator, which is located at the lower right-hand corner of the task bar. (If you do not see a battery or AC-in icon on the task tray, go to Power Options Properties box and click on the Advanced tab. Check off "Always show icon on the task bar".) Alternatively, you can access the power meter by clicking the Power Options icon in the Windows Control Panel.

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## Prolonging the Battery's Life and Usage Cycles

There are ways you can do to prolong the use of battery.

- . Use the AC adapter wherever AC wall outlet is available. This will ensure uninterrupted computing.
- . Purchase additional battery pack.
- . Store the battery pack in room temperature. Higher temperature tends to deplete the battery's power faster.
- . Make good use of the power management function. Save To Disk (Hibernate) saves the most energy by storing current system contents in a hard disk space reserved for this function.
- . The life expectancy of the battery is approximately 300 recharges.
- . See the notices section in the beginning of the user manual on how to care for the battery pack.

**Note:** Read Section Protecting Your Notebook in the beginning of this manual for tips about how to maintain the battery pack.

**Note:** To achieve optimal battery performance, you may need to do a battery calibration at a 3-month interval. To do this:

1. Fully charge the battery.
2. Then discharge the battery by entering the BIOS setup screen. (Press F2 key as soon as you turn on the computer. And let it remain at the setup screen until the battery runs out.
3. Fully charge the battery again.

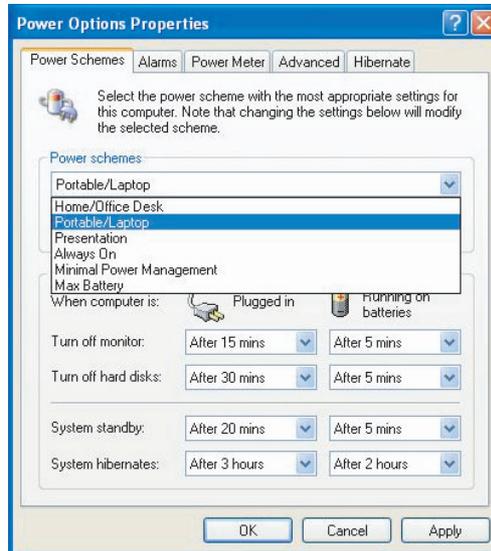
## Using Windows Power Options

Windows Power Management provides basic power saving features. In the Windows Power Options Properties [Start > Settings > Control Panel > Power Options] dialogue box, you may enter time-out values for display and hard disk drive. Windows power manager saves power by turning off hard drive after 1 minute of inactivity, for example.

## Windows' Power Schemes

The power management control panel in Windows XP, known as Power Schemes, is designed to provide the user with an easy-to-use interface. The Power Schemes tab can be found in the Power Options Properties panel that is accessible via the control panel window. Schemes are easy to understand, based on notebook usage scenarios, and control not only processor power usage but other system peripherals as well. Go to [Start > Settings > Control Panel] and double-click the Power Options icon.

Always on mode puts the processor into maximum performance mode, which provides no power saving. The other schemes control processor performance based on demand. For example, Max Battery mode lowers the processor's speed and voltage to conserve power as much as possible.



In this dialog box, you can manually set the LCD and hard drive's time-out values in the Plugged in column and in the Running on batteries column. Lower time-out values will save more battery power.

**Note:** Also consult Windows user guide for more information on how to use Windows power management functions.

**Note:** Actual dialogue box shown above may appear slightly different.

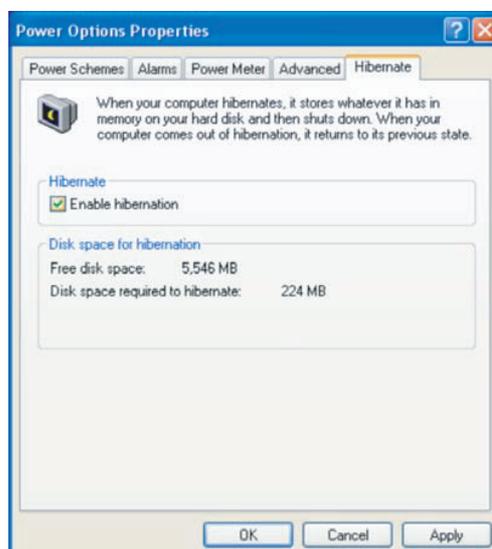
## Suspend Mode

### Standby Suspend

The system automatically enters this mode after a period of inactivity, which is set in the Power Schemes dialog box. In Standby mode, hardware devices, such as display panel and hard disk, are turned off to conserve energy.

### Hibernate Suspend

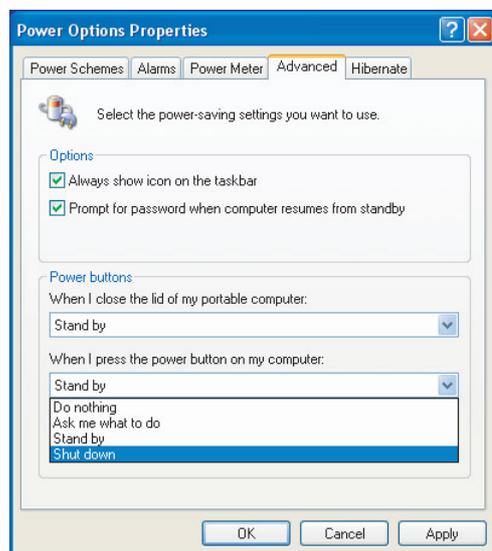
In this mode, all system data are saved in the hard disk before powering down. When this mode is activated, all system state and contents are saved to the hard disk drive after a period of inactivity defined by the user. No power or very little power is drawn from the battery module under this mode. However, depending on how much RAM that have been installed on your computer, the amount of time the system requires to restore all its previous contents can range from 5 to 20 seconds. For Windows 2000 / XP users, hibernation is handled by the operating system; therefore, no special disk partition or disk file is necessary. If you wish to activate Hibernate mode, you need enable Hibernate Support in the Hibernate tab of the Power Options menu.



Note: Do not install or remove the memory module when the system is in the suspend mode.  
 Note: Actual dialogue box shown above may appear slightly different.

## Power Button Action

The notebook PC's power button can be set to turn off the system or activate the suspend mode. Go to [Start > Settings > Control Panel > Power Options] and click on the Advanced tab. In the pull-down menu, select how you wish the power button to work as.

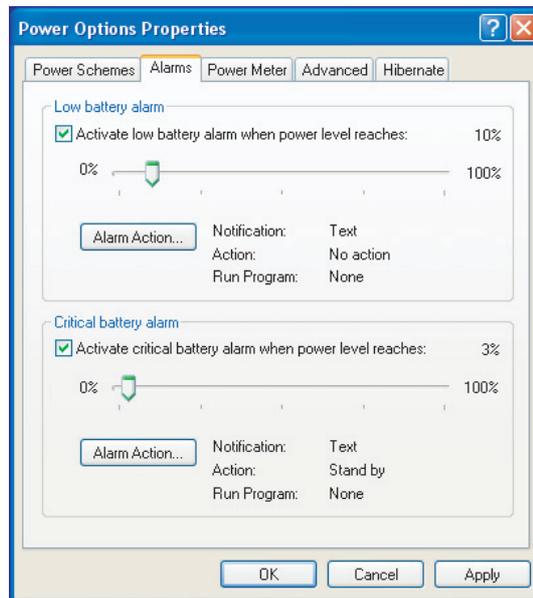




**Note:** Actual dialogue box shown above may appear slightly different.  
**Warning:** In the When I close the lid of my portable computer pull-down menu, DO NOT select Do nothing – otherwise the system will still run at high speed while the processor’s fan grill is fully blocked by the closed LCD panel. The heat will damage the LCD panel.

## ENG Low Battery Warning

You can define when and how the system warns you of its battery-low condition. Go to the Alarms tab in the Power Options Properties box. If you wish to hear audible beeps, click on the Alarm Action button and put a check on Sound Alarm.



**Note:** Consult Windows user guide for more information on how to use Windows power management functions.  
**Note:** Actual dialogue box shown above may appear slightly different.

## Power Menu Quick Access

Instead of making specific selections in the Power Options Properties box, you can quickly and easily specify which pre-set power saving function you desire by clicking on the Battery icon at the lower right-hand corner of the task bar. (If you do not see a battery or AC-in icon, go to Power Options Properties box and click on the Advanced tab. Check off “Always show icon on the task bar”.) Select Max Battery if you want the system to enter suspend mode more often. Or, select Always On if your notebook PC is plugged into an AC power source.



**Note:** Actual dialogue box shown above may appear slightly different.



## PRODUCT SPECIFICATION

### Processor and Core Logic

Mobile Intel Pentium M – Dual-Core Processor (Yonah), up to 2.16GHz, 2 MB L2 cache  
or  
Mobile Intel Pentium M – Single-Core Processor (Yonah), up to 1.66GHz, 2MB L2 cache”

Intel Calistoga 945GM + ICH7-M chipset with video, audio, modem, and USB2.0 controllers integrated 667MHz Front Side Bus 533 / 667MHz DDR2 interface

### System Memory

DDR2 SDRAM 533 / 667 256 / 512 / 1024MB Two 200-pin DIMM sockets, Max 2 GB

### Display

13.0 inch (1280x768) WXGA TFT LCD  
or  
13.3-inch (1280x800) WXGA TFT LCD  
Intel Integrated GMA950 Graphic Engine  
Hardware Motion Compensation and IDCT Supported for MPEG1/2 Playback DirectX compatible

### Audio

Intel (ICH7M) integrated audio controller  
Realtek ALC861  
DirectSound 3D, EAX 1.0 & 2.0 compatible  
A3D, I3DL2 compatible  
AC97 V2.3 compatible  
7.1 Multi-channel compatible  
Azalia compatible  
2 Stereo Speakers

### Modem

Intel (ICH7M) integrated Modem Controller with MDC card, support 56K MDC Modem Card with Azalia standard  
V.92 / V.90 / K56flex for download data speed up to 56Kbps.  
V.34, V.17, V.29 protocol supported

### Wireless LAN

Intel PRO/Wireless 3945ABG Card Mini-Card Interface IEEE802.11 A, B&G

### LAN / Ethernet

Marvell 88E88055 Ethernet function for 10/100/1000Base-TX network standards Windows 2000 / XP Plug and Play compatible Support 802.3x flow control  
Automatic MDI/MDIX crossover at all speeds

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Support IEEE 802.3u/ab,802.1p and 802.1q  
PCI-Express specification 1.0a compliant Remote Wake-up Scheme supported

## Firewire IEEE1394(a)

TI TSB43AB22A IEEE1394 OHCI Host Controller and Up to 400 Mbps Expandable up to 63 devices in chains

## Storage

SATA, 2.5-inch format hard disk drive  
5.25-inch format (12.7mm height) fixed module (Optional Purchase)  
5.25-inch format (12.7mm height) fixed module (Optional Purchase)

## Keyboard & Touch pad

86-key QWERTY keyboard with embedded numeric keypad and Windows keys, 19.05mm Pitch Built-in Touch Pad

## PC Card & Multiple Card Reader

OZ601 (PC Card), Genesys GL817E-10 (Card Reader)  
PC Card TYPE II, Hot insertion and removal supported Multimedia Card (MMC), Secure Digital Card (SD), Memory Stick (MS) and MS-pro Card

## Ports and Connectors

One Microphone-in jack  
One Headphone jack  
One Firewire (IEEE1394) host connector  
Three USB2.0-compliant connectors  
One standard network Ethernet connector (RJ-45)  
One modem / phone connector (RJ11)  
One S-video (TV-out) output connector  
One DC-in connector  
One 15-pin VGA connector  
One 4-in-1 Card Reader slot One PC Card Slot (type II)

## Battery Pack / AC Adapter

Li-ion 6-Cell pack, 11.1V x 4400 mAh  
Low battery state with low battery warning beep  
Uniwill SmartPower II Power Management  
Smart Battery Compliant; low battery warning beep  
Long Battery Life Mode and Silent Mode  
Autosensing AC-in 100~240V, DC-out 20V, 65W

## BIOS

AMI PnP BIOS  
Power On Self Test  
DRAM auto-detection, auto-sizing

L2 Cache auto-detection  
Hard disk type auto-detection  
APM 1.2 (Advanced Power Management) & ACPI 2.0 (Advanced Configuration Power Interface)  
Two Level Password Protections 32bit access, Ultra DMA, PIO5 Mode support  
Multi-boot capability

## Operating System

Compatible with Microsoft Windows XP Home / Professional SP2

## Physical Specification

316 (W) x 224 (D) x 31.9~34.4 (H) mm  
2.156KG (with 13" LCD, DVD-ROM Drive and 6-cell battery pack)  
2.08KG (with 13.3" LCD, DVD-ROM Drive and 6-cell battery pack)  
Operating Temperature: 5 to 30°C (41 to 86°F)  
Operating Humidity: 20 to 80 percent RH (5 to 35°C)  
Storage Temperature: -15 to 50°C (-5 to 122°F)

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## Notes

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