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Rev 1.0

TABLE OF CONTENTS

Preface

Using This Manual

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

Symbols and Conventions

The following conventions and symbols are used in this manual:

- When keys are to be pressed at the same time, a plus (+) symbol is used. For instance, Fn+F7 means holding Fn and F7 keys at the same time.
- When a series of clicking actions is needed in Windows O/S, [ ] and > symbols are used. For instance, [Start > Settings > Control Panel > Display] means clicking the Start icon first, then the Settings, then the Control Panel, then the Display icon.
- When you need to make a selection with the touch pad (or mouse), you will be asked to 'select' or 'click' or 'double-click', 'right-click' the item.

Note: Text in this format and symbol means specific instructions, commentary, sidelights, or any additional information or notes that you should be aware of.

Warning: Text is 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 50oC (122oF).
- 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 LITE-ON PA-1900-05 or PA-1121-02 or LISHIN LSE9901A2070 (70w), LSE0202A2090 (90W) or 0227A20120 (120W)

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.

Chapter Summaries

The following is a summary of the available chapters and appendices in this manual.

Chapter 1: Getting to Know the Basics

In this chapter, you will learn the basic operations and features of your computer. It gives you a general understanding of the components of your computer.

Chapter 2: BIOS Setup / Security

In this chapter, you will learn how to change various firmware settings and what the settings mean. Also, you will learn how to take advantage of the built-in security feature provided by the BIOS.

Chapter 3: Battery Power & Power Management

In this chapter, you will learn the fundamentals of power management and how to use them to achieve longer battery life.

Chapter 4: Upgrading Your Computer

In this chapter, you will learn how to upgrade the system memory and the hard disk drive.

Chapter 5: Trouble-Shooting

In this chapter, you will learn how to solve common hardware and software problems.

Appendix A: Product Specification

In this section, you will find a list of the computer's system specifications.

Appendix B: Agency Regulatory Notices

In this section, you will find the general electro-magnetic and safety regulatory information.

C H A P T E R ▼ O N E

GETTING TO KNOW THE BASICS

This chapter introduces the features and components of the computer.

Performance Features

- **High Performance Processor**
  The notebook PC is equipped with a powerful Mobile Intel Pentium M processor of the latest sub-micron process, processor technologies, and high bus bandwidths.

- **Advanced Graphic Engine**
  An Intel Integrated Extreme Graphic 2 video processor gives excellent graphic performance. The advanced graphic chip also incorporates a hardware-based motion-compensation engine, which gives you smooth MPEG video playback. 3D graphics capability also adds realism to PC games.

- **LCD Display**
  The computer is equipped either with a 14.1-inch TFT in standard format 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). *(Note: In some models, Card Reader may not be available.)*

- **Ethernet Port**
  The system provides built-in 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. *(Note: In some models, IEEE1394 Port may not be available.)*

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

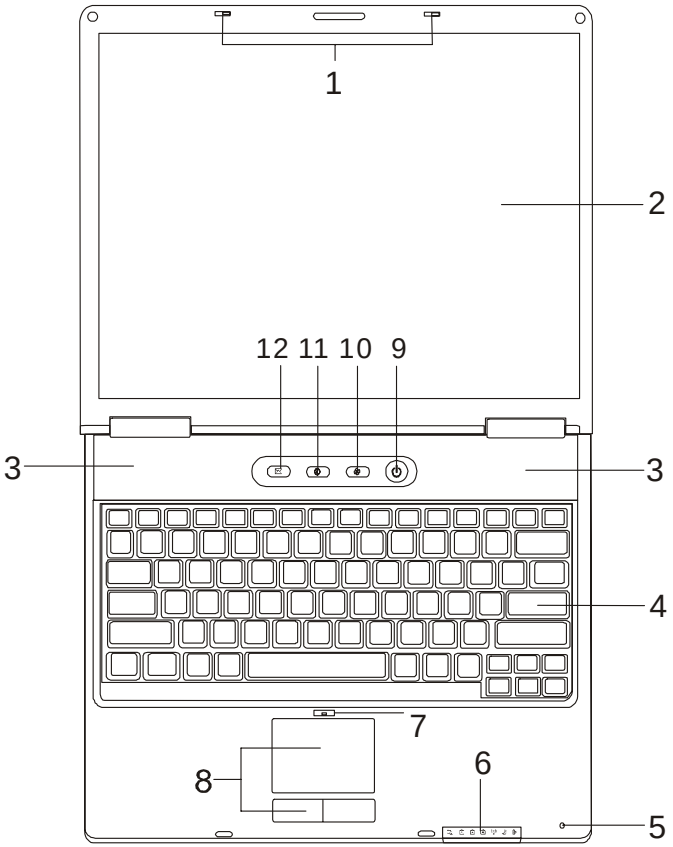
- **Integrated USB Devices (Optional)**
  The optional USB interface gives you added function to the notebook.

- **Touch Pad Enable/Disable Button**
  The Touch Pad Enable/Disable Button allows you to quickly disable the built-in Touch Pad when necessary.

- **Standalone Multimedia Player – Power Cinema**
  The system has 3 multimedia application launch keys. The quick keys allow you to view photos, watch DVD movies, or listen to MP3 tracks without having to boot to Windows.

System At A Glance

Top View



1. LCD Latch

The LCD latches lock / unlock the LCD panel.

2. LCD Display

The panel is where the system content is displayed.

3. Built-in Stereo Speakers

The built-in speakers output the sound in stereo.

4. Keyboard

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

5. Built-in Microphone

The built-in microphone records sound.

6. 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.

7. Touch Pad Enable/Disable Button

Press the button once to disable the built-in touchpad. Press again to enable. When disabled, the LED on the button lights up.

8. Touch Pad

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

9. 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 3~4 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.)

10. Power Cinema Photo Viewer Quick Key

The Photo Viewer Quick Key launches the Linux-based Power Cinema application automatically when the system is in Power-Off mode. This is called the Standalone Player mode; the system bypasses Windows and boots to a Linux-based application. See Appendix D to learn more about Power Cinema application.

When the system is in Power-On Windows mode, the button launches Silent Mode or Search application.

11. Power Cinema DVD Player Quick Key

The DVD Player Quick Key launches the Linux-based Power Cinema application automatically when the system is in Power-Off mode. This is called the Standalone Player mode; the system bypasses Windows and boots to a Linux-based application. See Appendix C to learn more about Power Cinema application.

When the system is in Power-On Windows mode, the button launches Internet application.

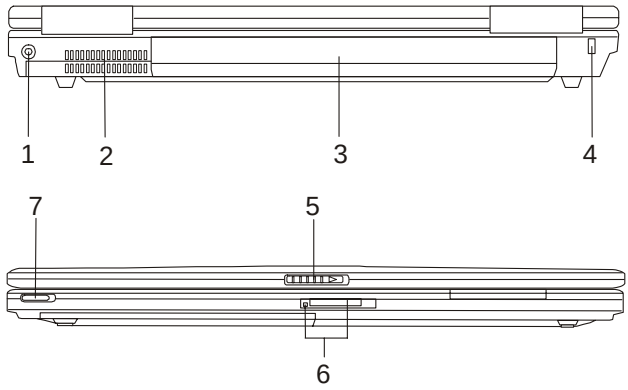
12. Power Cinema MP3 Player Quick Key

The MP3 Player Quick Key launches the Linux-based Power Cinema application automatically when the system is in Power-Off mode. This is called the Standalone Player mode;

the system bypasses Windows and boots to a Linux-based application. See Appendix C to learn more about Power Cinema application.

When the system is in Power-On Windows mode, the button launches E-mail application.

Front and Rear Views



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

1. **Power Jack (DC-in)**
   The DC-out jack of the AC Adapter connects here and powers the computer.

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

3. **Battery Pack**
   The battery pack is a built-in power source for the notebook.

4. **Kensington Lock Key Hole**
   A Kensington-type security lock latches to this keyhole for anti-theft purpose.

5. LCD Latch

The LCD latches lock / unlock the LCD panel.

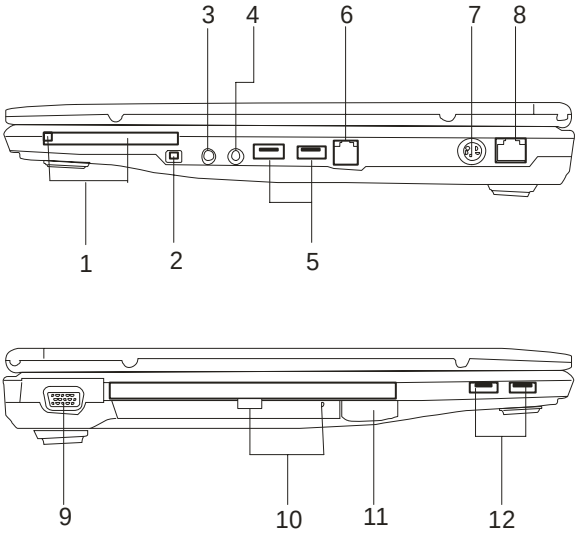
6. 4-in-1 Card Reader

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

7. Wireless On/Off Switch

Use the Switch to disable or enable Wireless function.

Side Views



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

1. **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.

2. **Firewire / IEEE1394 / 1394a Port**
   This is a high-speed serial data port. You may connect any Fire-wire-ready device to this port.

3. **Microphone Jack**
   The microphone jack (3.5-mm diameter) is where you connect a microphone.

4. **Stereo Headphone / SPDIF-out Jack**
   The stereo headphone jack (3.5-mm diameter) is where you connect the headphones or external speakers. Alternatively, you may connect the SPDIF output to an external DTS, AC3, or PCM sound processor / decoder in your home stereo system.

5. **USB2.0 Port (x2)**
   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.

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

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

9. **External VGA Port**
   The 15-pin VGA analog port is for connecting the external CRT monitor or projector.

10. **Optical Drive and Disk Eject Button and Manual Eject Key Hole**
    If your computer comes with the Combo drive, DVD-RW,

DVD+RW, or DVD-Dual 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.

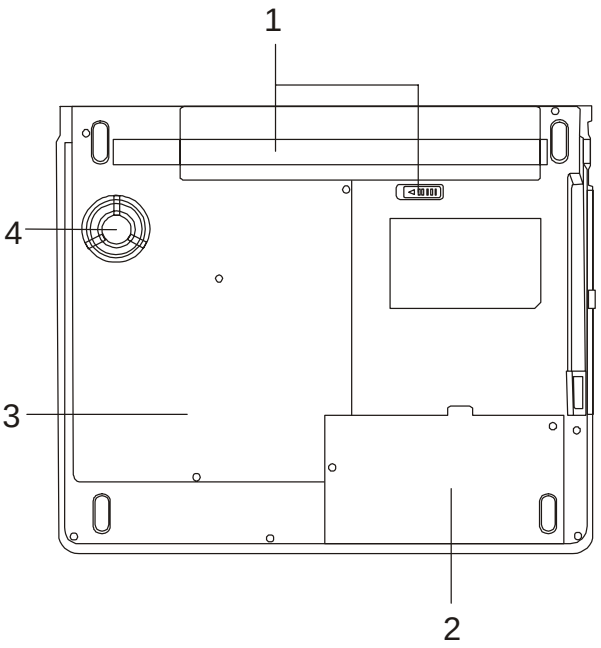
11. USB Device (Optional)

You may install the optional USB interface into this slot.

12. USB2.0 Port (x2)

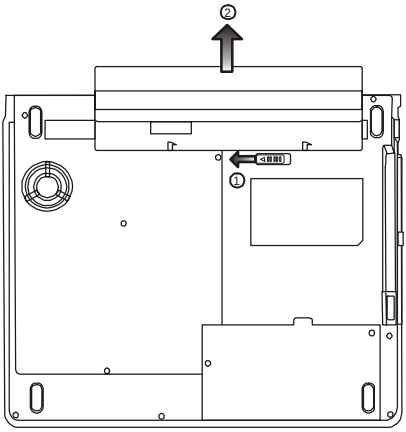
The Universal Serial Bus (USB2.0-compliant) port allows you to connect a wide variety of devices to your computer at a rate of up to 480 Mbps. This port conforms to the latest USB2.0 plug-and-play standards.

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. Hard Disk Drive Cover

The system's hard disk drive is located under the case cover. The HDD can be upgraded to a larger capacity. (See Chapter 4 for instructions on a memory upgrade.)

3. System Device Cover

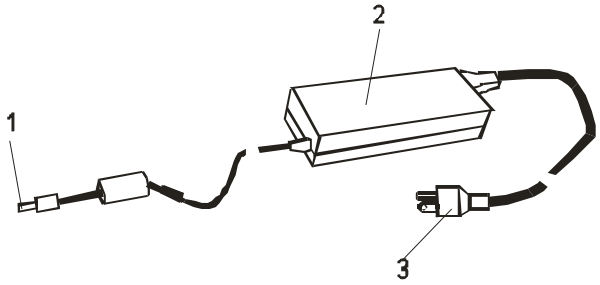
The system's processor with cooler assembly, Wireless LAN module, and DDR memory module are located under the case cover. The system memory can be upgraded to a larger capacity. (See Chapter 4 for instructions on a memory upgrade.)

4. 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 Status Indicator

LED Graphic Symbol	Indication
	Blinking orange light indicates the battery is being charged. Blinking red light indicates the battery power is low when the system is turned ON. Persistent green light indicates the battery is Full. LED-off (Dark) indicates the system is without battery.
	Blinking green light indicates the notebook is in suspend mode.
	Green light indicates the WLAN module is active.
	Green light indicates the scroll-lock is activated.
	Green light indicates the cap-lock is activated.
	Green light indicates the numeric keypad is activated.
	Green light indicates the hard drive and/or optical drive is being accessed.

Note: When the system power is initially turned on, the Scroll-lock, Cap-lock, and Numeric keypad LED indicators will light up momentarily to indicate the start of the Power-On sequence.

Keyboard Features

Function Keys (Quick Keys)

Graphic Symbol	Action	System Control
	Fn + F1	Enters Suspend Mode.
	Fn + F2	Turns the WLAN module on or off.
	Fn + F3	Turns of the battery warning beep off or on.
	Fn + F4	Changes Display Mode: LCD-only, CRT-only and LCD&CRT.
	Fn + F5	Turns Speaker Volume up.
	Fn + F6	Turns Speaker Volume down.
	Fn + F7	Increases Display Brightness.
	Fn + F8	Decreases Display Brightness.
	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 ↑ or ↓ to move one line up or down.

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.

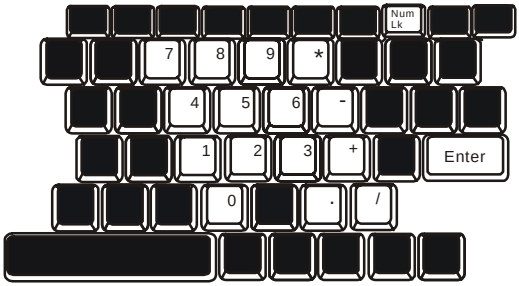
2. Application Menu Key

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

Embedded Numeric Keypad

Press Num Lock 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 Num Lock 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 15.1-inch active matrix TFT panel with high resolution and multi-million colors for comfortable viewing. The Intel Extreme Graphic 2 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+F8 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+F8).
2. When working at your desk, connect your notebook to an external monitor and disable the internal display Fn+ F4.
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.

Opening and Closing the Display Panel

To open the display, push the LCD latch inwardly and lift up the lid. Then tilt it to a comfortable viewing position.

To close the display cover, fold it down gently until the LCD latches click into place.

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+ F5.

To decrease the volume, press Fn+F6.

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.

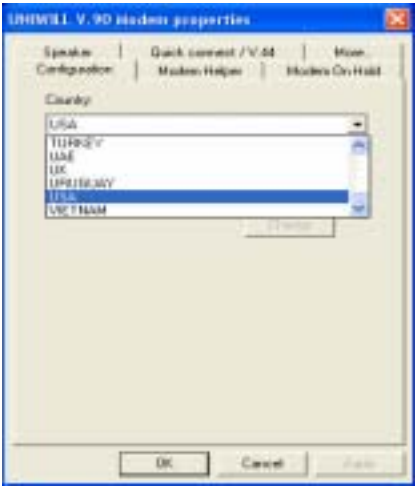
Connecting the Modem

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.

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 10/100Base-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 100/1000BASE-TX networks:

- The maximum cable run length is 100 meters(m) (328 feet[ft]).
- For 100-Mbps 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.

C H A P T E R ▼ F I V E

TROUBLE SHOOTING

In this chapter, you will learn how to solve common hardware and software problems.

Your computer has been fully tested and complies with the system specifications before shipping. However, incorrect operations and/or mishandling may cause problems.

This chapter provides a reference for identifying and correcting common hardware and software problems that you may encounter.

When you encounter a problem, you should first try to go through the recommendations in this chapter. Instead of returning the computer and waiting for repair, you may easily solve the problems by considering the following scenarios and possible solutions. If the error continues, contact your reseller for service information.

Before taking further actions, consider the following suggestions:

- Check to see if the problem persists when all the external devices are removed.
- Check to see that the green light indicator on the AC adapter is lit.
- Check to see the power cord is properly plugged to the wall outlet and to the computer.
- Check to see the power indicator of the computer is on.
- Check to see if your keyboard is operational by pressing and holding any key.
- Check for any incorrect or loose cable connections. Make sure the latches on the connectors latch securely on to the receptor end.
- Be sure you have not performed an incorrect setting on the

hardware devices in the BIOS Setup utility. A faulty setting may cause the system to misbehave. If you are not sure of the changes you made, try to restore all the settings to factory defaults.

- Be sure all the device drivers are installed properly. For example, without the audio driver properly installed, the speakers and microphone will not work.
- If external devices such as USB camera, scanner, printer do not function correctly when connected to the system, it is usually the device's own problem. Consult the device's manufacturer first.
- Some software programs, which have not gone through rigorous coding and testing, may cause problems during your routine use. Consult the software vendor for problem solving.
- Legacy peripheral are not plug-and-play capable. You need to restart the system with these devices powered up and connected first.
- Be sure to go to BIOS SETUP and load DEFAULT SETTING after BIOS re-flash.
- Be sure the Quick Key Lockout Switch on the bottom of the computer is not engaged; otherwise the quick keys will not work.

Audio Problems

No speaker output -

- Turn up the volume dial located at the right edge of the computer. See Chapter 1 for its location.
- Software volume control is turned down in Microsoft Sound System or is muted. Double-click the speaker icon on the lower right corner of the taskbar to see if the speaker has been muted or turned down all the way.
- Most audio problems are software-related. If your computer worked before, chances are software may have been set incorrectly.
- Go to [Start > Settings > Control Panel] and double-click the Sounds and Audio Devices icon. In the Audio page, make sure that Intel Integrated Audio is the default playback device.

Sound cannot be recorded -

- Double-click the speaker icon on the lower right corner of the taskbar to see if the microphone has been muted.

1. Click Options and select Properties.
2. Select Recording and click the OK button.
3. After Click OK button, the recording volume control panel will appear.

- Go to [Start > Settings > Control Panel] and double-click the Multimedia icon (or Sounds and Audio Devices icon). In the Volume or Audio page, make sure that Intel Integrated Audio is the default recording device.

Hard Disk Problems

The hard disk drive does not work or is not recognizable -

- If you had just performed a hard disk upgrade, make sure the hard drive connector is not loose and the hard disk drive is also correctly seated. Remove it and reinsert it firmly, and restart your PC. (Refer to Chapter 4 for details.)
- The new HDD may need to be partitioned and reformatted. O/S and drivers will need to be re-installed as well.
- Check the hard disk indicator LED. When you access a file, the LED lamp should light up momentarily.
- The new HDD may be defective or is not compatible.
- If your computer has been subjected to static electricity or physical shock, you may have damaged the disk drive.

The hard drive is making abnormal whining noises -

- You should back up your files as soon as possible.
- Make sure the source of noise is indeed from the hard drive and not the fan or other devices.

The hard disk drive has reached its capacity -

- Run Disk Cleanup utility in Windows. [Start > All Programs > Accessories > System Tools > Disk Cleanup] The system will prompt you for what to do.
- Archive files or programs that you had no longer used by moving them to an alternative storage medium (floppy disk, optical record-able disk, etc.) or uninstall programs that no longer use.
- Many browsers store files in the hard drive as a cache to speed up the performance. Check the program's Online Help

for instructions on decreasing the cache size or on removing temporary Internet files.

- Empty the Recycle Bin to create more disk space. When you delete files, Windows saves them to the Recycle Bin.

The hard disk takes longer to read a file -

- If you have been using the drive for a period, the files may be fragmented. Go to [Start > Programs > Accessories > System Tools > Disk Defragmenter] to perform a disk defragmentation. This operation may take a while.
- Interrupt requests or problems with other hardware devices may have occupied the CPU and therefore slows down the system performance.

The files are corrupted -

- Run the Error-checking utility in Windows to check the HDD. Double-click My Computer. Right-click C: and select Properties. Click Check Now in Error-checking in Tools.

CD-ROM, DVD-ROM, CD-RW, Combo Drive or DVD±R/±RW Problems

The CD-ROM, DVD-ROM, or Combo drive does not work -

- Try rebooting the system.
- The disk is damaged or files are not readable.
- After you have inserted a CD-ROM disk, it may take a moment before you can access its content.

The drive dose not read any disks -

- The CD may not be properly seated in the tray. Make sure the disk is firmly seated onto the spindle.
- The disk is damaged or not readable.

The disk cannot be ejected -

- Normally, it takes a few seconds to eject the disk.
- If the disk cannot be ejected, it may be mechanically jammed. Straighten out a paper clip and insert it to a tiny hole next to the eject button. This should reject the disk tray. If not, return the unit for repair. Do not forcefully pull on the disk tray.

The CD-RW drive (optional device) cannot record -

- You need to purchase and install a burner utility program to record files to a blank media.

Display Problems

The display panel is blank when the system is turned on -

■ Make sure the computer is not in the Standby or Hibernate suspend modes. The display is turned off to conserve energy in these modes.

The screen is difficult to read -

■ The display resolution should at least be set to at least1024x768 for optimal viewing.

1. Go to [Start > Settings > Control Panel] and double-click the Display icon.
2. Under the Settings page, set screen resolution to at least 1024x768 and choose at least 256 colors.

The screen flickers -

■ It is normal if the display flickers a few times during shutting down or powering up.

Keyboard and Mouse Problems

The built-in touch pad performs erratically -

- Make sure there is no excess perspiration or humidity on your hand when using the touch pad. Keep the surface of the touch pad clean and dry.
- Do not rest your palm or wrist on the surface of the touch pad while typing or using the touch pad.

The built-in keyboard accepts no input -

- If you are connecting an external keyboard to the system, the built-in keyboard may not work.
- Try restarting the system.

The characters on the screen repeat while I type.

- You may be holding the keys down too long while you're typing.
- Keep the keyboard clean. Dust and dirt under the keys could cause them to stick.
- Configure the keyboard to wait longer before the auto repeat feature starts. To adjust this feature, Go to [Start > Settings > Control Panel], and double-click the Keyboard icon. A dialogue box shows up with the adjustable settings for the keyboard.

CMOS Battery Problem

A message “CMOS Checksum Failure” displays during the booting process or the time (clock) resets when booting -

- Try to reboot the system.
- If the message “CMOS Checksum Failure” appears during the booting procedure even after rebooting, it may indicate failure of the CMOS battery. If so, you need to replace the battery. This battery normally lasts two to five years. The battery is of type CR2032 (3V). You may replace it by yourself. The battery is located next to the DDR DRAM socket. See Chapter 4 on how to access the DDR DRAM socket. If you are not sure how this is done, return the notebook to the dealer.

Memory Problems

The POST does not show an increased memory capacity when you have already installed additional memory -

- Certain brands of memory module may not be compatible with your system. You should ask your vendor for a list of compatible DIMM.
- The memory module may not be installed properly. Go back to Chapter 4 to review the details of this operation.
- The memory module may be defective.

The O/S issues an insufficient memory error message during operation -

- This is often a software or Windows-related problem. A program is draining the memory resources.
- Close the application programs you're not using and restart the system.
- You need to install additional memory module. For instructions, go to Chapter 4 Upgrading Your Computer.

Modem Problems

The built-in modem does not respond -

- Make sure the modem driver is loaded properly.
- Go to [Start > Settings > Control Panel > Phone and Modem Options] and go to Modems tab. Make sure SmartLink 56K Voice Modem or Uniwill V.90 Modem is listed. Otherwise, click the Add button to add the modem drive, which is located in the factory CD-ROM (or floppy diskette).
- Go to [Start > Settings > Control Panel > System] and click Device Manager button in the Hardware page to check for possible resource or driver conflict. See Windows on-line help or manual for how to handle such problems.
- Make sure the phone line, which the computer is connected to, is working.

Connection difficulties -

- Be sure to disable Call Waiting on the phone line.
- Be sure to have the correct country setting where your computer is used. [Start > Settings > Control Panel > Modem Settings > Configuration] In the Country/Area pull-down menu, select the appropriate country setting.
- Excessive line noise might cause the connection to be dropped. To check this, put the regular phone handset on the line and placing a phone call. If you do hear abnormal noise, try to make the modem connection with a different line or contact your local telephony company for service.
- Make sure the cable connection is firm.
- Try a different receiver number and see if the problem persists.

Network Adapter / Ethernet Problems

The Ethernet adapter does not work -

- Go to [Start > Settings > Control Panel > System > Hardware > Device Manager]. Double-click on Network Adapters and check if SiS PCI 10/100M Fast Ethernet Adapter appears as one of the adapters. If it does not exist, Windows has not detected the National Semiconductor Fast Ethernet adapter or the device driver has not been installed properly. If there is a yellow mark or red-cross on the network adapter, it may be a device or resource conflict. Replace or update the device driver from the factory CD-ROM disk or consult Windows manual on how to solve the resource conflict problem.
- Make sure the physical connections on both ends of the cable are good.
- The hub or concentrator may not be working properly. Check to see if other workstations connected to the same hub or concentrator is working.

The Ethernet adapter does not appear to operate in the 100Mbps transmission mode -

- Make sure the hub you are using supports 100Mbps operation.
- Make sure that your RJ-45 cable meets the 100Base-TX requirements.
- Make sure the Ethernet cable is connected to the hub socket that supports 100Base-TX mode. The hub may have both 100Base-TX and 100Base-T sockets.

PC Card / PCMCIA Problems

Note: Some system may not have the PC Card Slot option.

PC Cards do not function-

- Make sure you have properly installed the driver for the card.
- Consult the card's manual or contact the vendor for trouble-shooting.

The PC card cannot be recognized -

- Windows NT4.0 does not support PCMCIA (PC Card) function. You may need an external program for this.
- Make sure the card is fully inserted; the outer end of the card should be even with the edge of the computer.
- Remove and insert the PC card again.
- Make sure there is no IRQ conflict with the card. See Windows on-line help for solving IRQ conflicts.
- Reboot the computer and see if the problem persists.
- The card may be defective. Try the card on another system, if possible.

Windows crashes or freezes when you remove the PC card-

- Make sure you have <Stop> the PC card before removing it. Double-click the Safely Remove Hardware icon at the lower right corner of the task bar and select the card you wish to stop. When you click <Close>, in few seconds Windows will prompt you to remove the card.

Performance Problems

The computer becomes hot -

- In a 35°C environment, the certain areas of the computer's back case are expected to reach 50 degrees.
- Make sure the air vents are not blocked.
- If the fan does not seem to be working at high temperature (50 degrees Celsius and up), contact the service center.
- Certain programs that are processor-intensive may increase the computer temperature to a degree where the computer automatically slows down its CPU clock to protect itself from thermal damage.

The program appears stopped or runs very slowly -

- Press CTRL+ALT+DEL to see if an application is still responding.
- Restart the computer.
- This may be normal for Windows when it is processing other CPU-intensive programs in the background or when the system is accessing slow-speed devices such the floppy disk drive.
- You may be running too many applications. Try to close some applications or increase system memory for higher performance.
- The processor may have been overheated due to the system's inability to regulate its internal heat. Make sure the computer's ventilation grills are not blocked.

Printer Problems

The printer does not print -

- Make sure the cable connection is secured and the printer is powered up, if the printer is connected via the parallel port. and make sure the parallel port setting in CMOS is correct.
- Run the printer self-test to see if it reports any problem.
- Check if the printer displays any error messages. A paper jam may have occurred.
- Make sure you have already installed the printer driver.
- Try rebooting the system with the printer powered up and connected first.

The printer does not print what's on the screen -

- The information displayed on the screen may not exactly be the same as what is printed.
- If the printer prints extra and strange symbols, it is the result of the cache (garbage) in the printer memory buffer. Cancel all the printer tasks and toggle off the printer power switch to clear up the memory buffer. Then, turn the printer back online and print again.
- Make sure you install the correct printer driver.

The printer does not respond to infrared communication -

- See Infrared Problems listed elsewhere in this chapter.

Firewire (IEEE1394) and USB2.0 Problems

The USB device does not work -

- Windows NT 4.0 does not support USB protocols
- Check the settings in the Windows Control Panel.
- Make sure you have installed the necessary device drivers.
- Contact the device vendor for additional support.

The IEEE1394 port does not work -

- Go to [Start > Settings > Control Panel > System > Hardware > Device Manager]. You should see an entry which reads “IEEE 1394 Bus host controllers”. If it does not exist, Windows has not detected the host controller or the device driver has not been installed properly. If there is a yellow mark or red-cross on the 1394 host controller, it may be a device or resource conflict. Replace or update the device driver from the factory CD-ROM disk or consult Windows manual on how to solve the resource conflict problem.
- Make sure the cable is fully connected.
- Make sure you have installed the necessary device drivers.
- Contact the device vendor for additional support.

A P P E N D I X ▼ A

PRODUCT SPECIFICATION

▼ Processor and Core Logic

■Processor

- Intel P4 2.6 ~ 3.2 GHz, 478 Pins FC-PGA2 Type, 400/533/800 MHz FSB, 512 KB L2, *or*
- Desktop Celeron CPU, 2.6G to 3.0GHz
- Intel P4-M, 2.6GHz ~ 3.2 GHz, 1.3V, 400/533 MHz FSB, 512KB L2, uFC-PGA, *or*
- Mobile Celeron CPU, 1.4GHz to 2.5GHz

■Core Logic

SIS661FX+SIS963L chipset with graphic, audio, modem and USB controllers integrated
400/533/800 MHz Front Side Bus
266/333/400 MHz DDR interface

▼ System Memory

■Memory Type
■Default
■Memory Expansion

DDR SDRAM, 400/333/266 MHz, compatible
64/128/256 / 512 / 1024 /2048 MB, 2.5-Volt 64-bit bus
One 184-pin DIMM sockets, Max 2 GB

■LCD Panel

■Graphic Accelerator

■Motion Playback

■Frame Buffer

■Other Features

▼ Display

15-inch XGA or 15-inch SXGA+ active-matrix TFT display with up to 16M colors
Integrated A.G.P. compliant target
Hardware Motion Compensation and IDCT Supported for MPEG2/1 Playback
8MB to 256MB Dedicated DDR SDRAM Frame Buffer
DirectX8.1 compatible

■Chipset

■Audio Codec

■Sound Capabilities

▼ Audio

SIS integrated audio controller
ALC655
DirectSound 3D accelerator
SoundBlaster Pro compatible
AC97 V2.2 compatible
2 Stereo Speakers (1 Watt each)

■Chipset

■Transmission Rate

▼ Modem

SIS integrated Modem Controller integrated with MDC card, AC97 V2.2 Modem support
V.90 / K56flex for download data speed up to 56Kbps.
V.34, V.17, V.29 protocol supported

▼ LAN / Ethernet

■Chipset
SIS integrated Ethernet function for 10/100Base-TX network standards
SiS900

■MAC
■PnP Function
Windows 95 / 98 / ME / 2000 / XP Plug and Play compatible

■Flow Control
Automatic Jam and auto-negotiation for flow control

■Speed Selection
Auto Negotiation and Parallel detection for automatic speed selection (IEEE 802.3u)

■Other Features
High performance 32-bit PCI bus master architecture with integrated DMA controller for low CPU and bus utilization
Remote Wake-up Scheme supported
Hot Insertion supported

▼ Firewire IEEE1394(a)

■Chipset
SIS 963L IEEE1394 OHCI Host Controller and

■Capabilities
Up to 400 Mbps
Expandable up to 63 devices in chains

▼ Storage

■Hard Drive
2.5-inch format hard disk drive

■CD-ROM
5.25-inch format (12.7mm height) fixed module with 24X speed

■DVD-ROM
5.25-inch format (12.7mm height) fixed module (Optional Purchase)

■CD-RW
5.25-inch format (12.7mm height) fixed module (Optional Purchase)

■Combo Drive
5.25-inch format (12.7mm height) fixed module (Optional Purchase)

■DVD±R/±RW
5.25-inch format (12.7mm height) fixed module (Optional Purchase)

▼ Keyboard & Touch pad

■Keyboard	87/88-key QWERTY keyboard with embedded numeric keypad and Windows98 keys, 19.05mm Pitch
■Touch pad	Built-in Touch Pad with PageUp / PageDown Buttons 19mm Pitch

▼ Ports & Connectors

■Audio-In Port	One Microphone-in jack
■Audio-Out Port	One Headphone jack
■Volume Pot	One VR Dial for audio volume control
■Speaker Jack	One Speaker Jack
■Firewire	One Firewire (IEEE1394) host connector
■USB2.0 Port	Four or Five USB2.0-compliant connectors
■Ethernet	One standard network Ethernet connector (RJ-45)
■Modem	One Modem (RJ-11)
■S-Video	One S-video (TV-out) output connector
■Power-In	One DC-in connector
■Parallel	One 25-pin parallel port connector
■VGA Port	One 15-pin VGA connector
■Card Reader	One Card Reader slot
■PC Card Slot	One PC Card Slot (type II)
■PS/2 Port	One 6-pin PS/2 Port

▼ Battery Pack / AC Adapter

■Battery Pack	● Li-ion 6/8-Cell pack, 14.8V x 4400 mAh, 65.12Wh,
■Feature	● Smart Battery Compliant
■Adapter AC-Input / DC-Output	Autosensing AC-in 100~240V, 90W(for Mobile CPU) AC-in 100~240V 120W,(for Desktop CPU) DC-Output 20V

▼ BIOS

■PnP Function	AMI PnP BIOS
■Self Test	Power On Self Test
■Auto Detection	DRAM auto-detection, auto-sizing L2 Cache auto-detection Hard disk type auto-detection
■Power Management	APM 1.2 (Advanced Power Management) & ACPI 2.0B (Advanced Configuration Power Interface) Smart Power ®
■Security	Two Level Password Protections
■Other Features	32bit access, Ultra DMA, PIO5 Mode support Multi-boot capability

■O/S	Support: Microsoft Windows 2000 / XP Compatible: Microsoft Windows 95/ 98/ 98SE/ ME

▼ Physical Specification

■Dimension	345 (W) x 282 (D) x 39 (H) mm
■Weight	7.7 lbs / 3.5 KG (with CD-ROM)
■Environmental Limits	Operating Temperature: 5 to 35^{oC} (41 to 95^{oF}) Operating Humidity: 20 to 90 percent RH (5 to 35^{oC}) Storage Temperature: -20 to 50^{oC} (-4 to 122^{oF})

A P P E N D I X B

AGENCY REGULATORY NOTICES

Federal Communications Commission Notice

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 or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by the Manufacture may void the user's authority to operate the equipment.

Connections to Peripheral Devices

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity

This device complies with Part 15/68 the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) and R&TTE Directive (1999/5/EC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) Radio Frquency Interference

- EN50082 (IEC801-2, IEC801-3, IEC801-4) Electro-magnetic Immunity
- EN 300 328-2 (ETS 300 328) Radio Spectrum Matter.
- TBR21 (ETS TBR21) Terminal Equipment.
- EN60950 (IEC950) I.T.E. Product Safety

Canadian Notice

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le present appareil numerique nemet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de Classe B prescrites dans le reglement sur le brouillage radioelectrique edicte par le Ministere des Communications du Canada.

Power Cord Requirement

The power cord supplied with the AC adapter should match the plug and voltage requirements for your local area. Regulatory approval for the AC adapter has been obtained using the power cord for the local area. However, if you travel to a different area and need to connect to a different outlet or voltage, you should use one of the power cords listed below. To purchase a power cord (including one for a country not listed below) or a replacement ac adapter, contact your local dealer.

U.S. and Canada

- The cord set must be UL-Listed and CSA-Certified or C-UL Listed.
- The minimum specifications for the flexible cord are (1) No. 18 AWG, (2) Type SJ, and (3) 3-conductor.
- The cord set must have a rated current capacity of at least 10 A.
- The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15 A, 250V) configuration.

Japan

- All components of the cord set (cord, connector, and plug) must bear a `PSE` mark and registration number in accordance with the Japanese Dentori Law.
- The minimum specification for the flexible cord are: (1) 0.75 mm2 conductors, (2) Type VCT or VCTF, and (3) 3-conductor.
- The cord set must have minimum rated current capacity of 7 A.
- The attachment plug must be a two-pole, grounded type with a Japanese Industrial Standard C8303 (15 A, 125 VAC) configuration.

Other Countries

- The cord set fittings must bear the certification mark of the agency responsible for evaluation in a specific country. Acceptable agencies are:
  - BSI (UK)
  - OVE (Australia)
  - CEBEC (Belgium)
  - SEMKO (Sweden)
  - FIMKO (Finland)
  - DEMKO (Denmark)
  - NEMKO (Norway)
  - SETI (Finland)
  - EANSW (Australia)
  - SEV (Switzerland)
  - IMQ (Italy)
  - UTE (France)
  - CCC (China)
  - PSB (Singapore)
  - PSE (Japan)
  - BSMI (Taiwan)
  - B (Polish)

- The flexible cord must be of a HAR (harmonized) type HO5VV-F 3-conductor cord with a minimum conductor size of 0.03 square inches.
- The cord set must have a current capacity of at least 10 A and a nominal voltage rating of 125 / 250 VAC.

CAUTION: MODEL N755IIx IS DESIGNED TO USE WITH THE FOLLOWING AC ADAPTER MODEL ONLY
Manufacture: LITE-ON ELECTRONICS, INC.
Model: PA-1900-05 (90W) or PA-1121-02 (120W)
or
Manfacture: Li-shin International Enterprise Corp.
Model: LSE9901A2070 (70w), LSE0202A2090 (90W) or 0227A20120 (120W).

Telephone lines requirement

- The appropriate utilization of 26AWG telephone line cord on unit.

CAUTION: Always disconnect all telephone lines from the wall outlet before servicing or disassembling this equipment.
CAUTION: To reduce the risk of fire, use only No. 26AWG or larger

telecommunication line cord.

Battery Pack Safety

- The battery pack is intended to use only with this notebook.
- Do not disassemble the pack.
- Do not dispose of the battery pack in fire or water.
- To avoid risk of fire, burns, or damage to your battery pack, do not allow a metal object to touch the battery contacts.
- Handle a damaged or leaking battery with extreme care. If you come in contact with the electrolyte, wash the exposed area with soap and water. If it contacts the eye, flush the eye with water for 15 minutes and seek medical attention.
- Do not charge the battery pack if the ambient temperature exceeds 45℃ (113℉).
- To obtain a replacement battery, contact your local dealer.
- Do not expose the battery pack to high storage temperatures (above 60℃, 140℉).
- When discarding a battery pack, contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.
- Use only supplied AC Adapter for charging.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer`s instructions or local laws.

VORSICHT! Explisionsgefahr bei unsachgernazen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ahnlichen Typ. Entsorgung gebrauchter Batterien navh Angaben des Herstellers.

Laser Safety

The optical drive used with this computer is certified as a Class 1 laser device according to the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard and International Standards IEC 825 / IEC 825-1 (EN60825 / EN60825-1). The device is not considered harmful, but the following precautions are recommended:

- Do not open the unit.
- Avoid direct exposure to the laser beam.
- If the unit requires service, contact an authorized service center.
- Ensure proper use by reading and following the instructions carefully.

- Do not attempt to make any adjustment of the unit.

CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASERSCHUTZKLASSE 1 PRODUKT

Warning!
Do not attempt to disassemble the cabinet containing the laser. The laser beam used in this product is harmful to the eyes. The use of optical instruments, such as magnifying lenses, with this product increase the potential hazard to your eyes. For your safety, have this equipment serviced only by an authorized service provider.

LED (Infrared) Safety
The infrared port located on the left side of this computer is classified as a Class 1 LED (light-emitting diode) device according to International Standard IEC 825-1 (EN60825-1). This device is not considered harmful, but the following precautions are recommended:

- Do not attempt to view the infrared LED beam with any type of optical device.
- Do not attempt to make any adjustment of the unit.
- If the unit requires service, contact an authorized service center.
- Avoid direct eye exposure to the infrared LED beam. Be aware that the beam is invisible light and cannot be seen.

CLASS 1 LED PRODUCT
LEDSCHUTZKLASSE 1 PRODUKT

Lithium battery warning
This computer contains a lithium battery to power the clock and calendar circuitry.

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

ATTENTION: Il y a danger d'xplosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avcc unc batterie du meme type ou d'un type recommande par le constructer. Mettre au rebut les batteries usagees conformement aux instructions du fabricant.

VORSICHT! Explosionsgefahr bei unsachgemBen Austausch der Batterie Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ahnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

Der Arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 betragt 70dB (A) oder weniger.

Zum Netzanschlua dieses Gerates ist eine geprufte Leitung zu verwenden. Fur einen Nennstrom bis 6A und einem Gerategewicht groBer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm2 einzusetzen.

Die Steckdose muB nahe dem Gerat angebracht und leicht zuganglich sein.

Regulatory statement about the RF transmitter

15.105 Federal Communications Commission (FCC) Requirements, Part 15

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.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE (CO-LOCATION)

FCC RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR Exposure

This device has been tested for compliance with FCC RF Exposure (SAR) limits in typical flat configurations.

In order to comply with SAR limits established in the ANSI C95.1 standards, it is recommended when using a Personal Computer that the integrated antenna is positioned more than 1.5cm from your body or nearby persons during extended periods of operation. If the antenna is positioned less than 1.5cm from the user, it is recommended that the user limit the exposure time.