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# *Notebook*



*User's Guide*



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## **Preface**

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### ***Limitation of Liability***

While reasonable efforts have been made to ensure the accuracy of this manual, the manufacturer and distributor assume no liability resulting from errors or omissions in this manual, or from the use of the information contained herein.

## **Notices**

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### ***Federal Communications Commission Radio Frequency Interference Statement***



#### **NOTE....**

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 instruction manual 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

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

***Notice:***

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Shielded interface cables and a non-shielded AC power cord must be used in order to comply with emission limits.

This equipment is to be used with power supply:  
65W (support Penryn 25W/35W CPU)

90W (Support Pentium/Celeron 35W CPU)

There is no internal power supply.

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# Chapter



**1**

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# *Before you Start*

## **Conventions of This Manual**

Use this manual will help you get the most from your notebook computer.

- If you are an experienced user of computers and/or Microsoft's Windows operating systems, you might find it useful to read the Quick Start Guide that comes along with your accessories.
- If you are a less experienced user, you should through the manual carefully before using your system.

Whether or not you are an experienced user, you should consult on the Troubleshooting Chapter if you encounter any problems with your notebook.

## **Safety Precautions**

This section is designed to assist you in identifying potentially unsafe conditions while working with this product. Required safety features have been installed in the computer to protect you from injury. However, you should use good judgment to identify potential safety hazards:

1. Please read these safety instructions carefully.
2. Please keep this User's Manual for later reference.
3. Please disconnect this equipment from AC outlet before cleaning. Don't use liquid or sprayed detergent for cleaning. Use moisture sheet or cloth for cleaning.
4. For pluggable equipment, that the socket-outlet shall be installed near the equipment and shall be easily accessible.
5. Please keep this equipment from humidity.
6. Lay this equipment on a reliable surface when installed. A drop or fall could cause injury.

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7. Make sure to use the right voltage for the power source when connecting the equipment to the power outlet.
  8. Place the power cord in such a way that people can not step on it. Do not place anything on top of the power cord.
  9. All cautions and warnings on the equipment should be noted.
  10. If the equipment is not use for a long time, disconnect the equipment from the main power outlet to avoid being damaged by transient overvoltage.
  11. Never pour any liquid into the opening, this could cause fire or electrical shock.
  12. Never open the equipment. For safety reason, the equipment should only be opened by a qualified service personnel.
  13. If on the following situations arises, get the equipment checked by a service personnel:
    - a. The Power cord or plug is damaged.
    - b. Liquid has penetrated into the equipment.
    - c. The equipment has been exposed to moisture.
    - d. The equipment has not worked well or you cannot get it work according to the user's manual.
    - e. The equipment has dropped and damaged.
    - f. If the equipment has obvious sign of breakage.
  14. Do not leave this equipment in an environment unconditioned, storage temperature above 60°C (140°F), it may damage the equipment.
  15. The unit can be operated at an ambient temperature of max. 35°C.
  16. The sound pressure level at the operators position according to IEC 704-1: 1982 is equal or less than 70 dB(A).
  17. Power Cord Requirements

The power cord set used with the AC adaptor must meet the requirements of the country where you use the AC adaptor, whether it is 100-120 or 200-240 Vac. The following information explains the requirements for power cord set selection.

    - The cord set must be approved for the country in which it is used.
    - The appliance coupler must have a configuration for mating with a CEE7/EN60320/IEC 320/NEMA/ JIS C 8303 appliance inlet.

A. For U.S. and Canada:

    - The cord set must be UL Listed and CSA Certified.

- 
- The minimum specifications for the flexible cord are No. 18 AWG, (2) Type SPT-2, and (3) 2-conductor.

**B.** For Japan:

- All components of the cord set must bear a "PSE" mark and in accordance with the Japanese Dentori Law.
- The minimum specifications for the flexible cord are .75mm<sup>2</sup> conductors, (2) Type VCTR or VCTFK, and (3) 2-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.

**C.** For Other Countries:

- The cord set fittings must bear the certification mark of the agency responsible for evaluation in a specific country.
- The flexible cord must be of a HAR (harmonized) type H03VVH2-F.
- The cord set must have a current capacity of at least 2.5 Amperes and voltage rating of 125 or 250 Vac.

**CAUTION: MODEL I4xS1x (x=0~9) IS DESIGNED TO USE WITH THE FOLLOWING AC ADAPTER MODEL ONLY**

**Manufacture: Li Shin International Enterprise Corp.**



**Model: 0335C2065 (65W)**

**Manufacture: Delta Electronics, Inc.**


**Model: ADP-65HB AD (65W)**

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

- Do not use this product near water, for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.

- 
- Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special instructions.
19. Do not use the AC adapter near open water or other liquids. Never spill liquid into the AC adapter.
20. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. Never remove the battery pack while the power is on as this may result in data loss when the system loses power.
21. The input receptacle is used as the main disconnecting device.
-  **CAUTION...** This part is hot. Be careful.
-  **VORSICHT...** Diese Flachewird sehr heiss.
- When you see this symbol, be careful as this spot may be very hot.**
22. Laser Warning: Laser Class I Product Caution - Invisible laser radiation when open avoid exposure to beam.  
The optical drive used with this computer is certified as a Class1 laser device according to the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard and International Standards IEC 60825-1 (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

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**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.**

### **Wichtige Sicherheitshinweise**

1. Bitte lesen Sie diese Hinweis sorgfältig durch.
2. Heben Sie diese Anleitung für den späteren Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Versenden Sie Keine Flüssig- oder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.
4. Die Netzanschlußsteckdose soll nahe dem Gerät angebracht und leicht zugänglich sein.
5. Das Gerät ist vor Feuchtigkeit zu schützen.
6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen.
7. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
8. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden.
9. Alle Hinweise und Warnungen, die sich am Gerät befinden, sind zu beachten.
10. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.
11. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. Elektrischen Schlag auslösen.
12. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem Servicepersonal geöffnet werden.
13. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu Überprüfung:
  - a. Netzlabel oder Netzstecker sind beschädigt.
  - b. Flüssigkeit ist in das Gerät eingedrungen.
  - c. Das Gerät war Feuchtigkeit ausgesetzt.
  - d. Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.

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- e. Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
  - f. Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.
- 14. VORSICHT:** Explosionsgefahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.
- 15.** Dieses Schaltnetzteil kann bis zu einer Außentemperatur von maximal 35°C.
- 16.** Die Ausgangswerte dürfen nicht die auf dem Label angegebenen Werte überschreiten.
- 17.** Anforderungen an das Stromkabel
- Das Kabel-Set, das an das Netzteil angeschlossen wird, muss den Anforderungen des Landes, in dem Sie das Netzteil einsetzen, genügen, je nachdem, ob die Netzspannung 100-120 oder 200-240V Wechselspannung beträgt.
- Das Kabel-Set muss für das Land, in dem es eingesetzt wird, zugelassen sein.
  - Der Gerätestecker des Kabels muss in eine CEE7/EN60320/IEC 320/NEMA/ JIS C 8303 Buchse passen.
- A.** Für die USA und Kanada:
- Das Kabel-Set muss UL-gelistet und CSA zertifiziert sein.
  - Die Minimalanforderungen für das Kabel entsprechen No. 18 AWG. (2) Type SPT-2, und (3) 2-conductor.
- B.** Für Japan:
- Alle Teile des Kabel-Sets müssen entsprechend dem japanischen Dentori Law mit einem „PSE“ markiert sein
  - Die Minimalanforderungen für das Kabel sind .75m<sup>2</sup> Leiter. (2) Type VCTF oder VCTFK, und (3) 2-conductor.
  - Der Kabelsatz muss mindestens für eine Stromstärke von 7A geeignet sein.
  - Der Wandstecker muss ein zweipoliger geerdeter Steckertyp gemäß dem Japanese Industrial Standard C8303 (15A, 125 VAC) sein.
- C.** Für andere Länder:
-

- 
- Die Zubehörteile des Kabel-Sets müssen das Prüfsiegel derjenigen Stelle, die in dem jeweiligen Land für die Sicherheitsprüfung zuständig ist, tragen.
  - Das Kabel muss vom HAR (harmonisierten) Typ H03VVH2-F sein.
  - Das Kabel-Set muss eine Stromkapazität von mindestens 2,5 Ampere haben und Spannungen von 125 oder 250 V Wechselstrom gestatten.

**ACHTUNG: Mit dem I4xSIx (x=0~9) muss ein AC-Adapter folgenden Modells verwendet werden**

**Hersteller: Li Shin International Enterprise Corp.**

**Modell: 0335C2065 (65W)**

**Hersteller: Delta Electronics, Inc**

**Modell: ADP-65HB AD(65W)**

**18.** Bei der Benutzung Ihres Telefongerätes sollten Sie immer die grundlegenden Sicherheitsmaßnahmen beachten, um das Risiko von Feuer, Stromschlägen und Verletzungen zu minimieren. Zu beachten sind u.a. folgende Punkte:

- Benutzen Sie das Gerät nicht in der Nähe von Wasser, wie zum Beispiel Badewanne, Waschbecken, Spülbecken, Waschbottich, in feuchten Kellerräumen oder in der Nähe von Schwimmbecken.
- Benutzen Sie kein Telefon (ausgenommen schnurlose Modelle) während eines Gewitters. Es besteht das geringe Restrisiko eines Blitzschlages.
- Benutzen Sie das Telefon nicht um ein Gasleck zu melden, falls es sich in der Nähe des Lecks befindet.
- Verwenden Sie nur die in diesem Benutzerhandbuch angegebenen Stromkabel und Batterien. Werfen Sie die Batterien nicht ins Feuer, sie könnten explodieren. Informieren Sie sich über die örtlichen Bestimmungen bezüglich der Entsorgung.

**19.** Benutzen Sie das Netzteil nicht in unmittelbarer Nähe zu Wasser oder anderen Flüssigkeiten. Gießen Sie nie Flüssigkeiten über das Netzteil.

**20.** Es besteht Explosionsgefahr, wenn der Akku nicht ordnungsgemäß ersetzt wird. Ersetzen Sie den Akku nur durch einen Akku gleichen oder äquivalenten Typs, der vom Hersteller empfohlen wird. Entsorgen Sie Akkus entsprechend den Anweisungen des Herstellers. Entfernen Sie den Akku auf

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keinen Fall bei eingeschaltetem notebook, da hierdurch Daten verloren gehen könnten.

21. Der Netzeingabeanschluss dient als Hauptschalter des Geräts.

### ***Things you must remember before working on your computer***

#### ***Let your computer acclimate itself***

---

Your notebook can easily stand temperature extremes but it doesn't like rapid changes in temperature, like going from the cold outdoors to a warm office.

Rapid changes in temperature can cause water droplets to condense inside your case, threatening to damage the electronic parts inside.

After receiving your notebook when it's hot or cold outside, try not to power up the computer immediately, let the computer adjust to the room temperature gradually at least for three to four hours.



**WARNING....** If your system arrives in cold weather, do not apply power to the computer or monitor until they have been allowed to come to room temperature.

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### *Heat, Cold, Humidity, and Glare*

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Find a suitable place for your computer that's not too hot, too cold, too dark, or too bright. Glare can make it hard to read the screen.

- Try to avoid the computer components from being destroyed if it is over heated, so try to allow plenty of room for air to circulate around the case.
- Do not block the ventilation opening.
- Do not place your computer in direct sunlight.

### *Suitable place to work*

---

Your computer will run well wherever you're comfortable but extremes of temperature and humidity can be challenging to your system's parts.

There are some things you can tolerate that the computer can't – things like static electricity, dust, water, steam and oil. In case you decide to pull over for roadside computing, try to choose a clean, comfortable work area for your system.

A lithium-ion battery pack will be available when you are traveling. If you are running your system for the first time on battery power, remove the battery from the package, install it into the system and recharge the battery to fully prepare for service.

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# Chapter



# 2

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# *Introduction*

## ***Preparing your Computer***



1



2



3



4

1. Install the battery pack
2. Connecting the AC adapter
3. Opening the display panel
4. Turning on your computer

## ***Knowing your Computer***

With the LCD screen open, you will see several features important for operating your notebook computer.

---

 **WARNING....** To avoid damage to the display panel:

1. Try not to slam the display upon closing it.
2. Try not to place any object on top when it is closed or open.
3. Be sure the system is turned off or in suspend mode before you close the display panel.

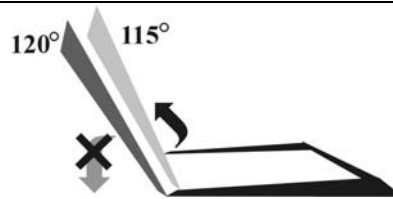
*Front View*

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1. Camera
2. LCD Display

 **WARNING** This LCD panel can only support up to a maximum opening of 115-120 degrees, please do not push it forcibly.



### 3. Keyboard

**NOTE....** The keyboard differs for each territory

### 4. Microphone

### 5. Touchpad Buttons









### 6. Touchpad

### 7. Power / Suspend Button

- Press for 1~1.5 seconds to turn on the system.
- Press and hold for at least 4 seconds to turn off the system.
- Press the power / suspend button again to return from the suspend mode.

### 8. LED Status Indicator

#### *System & Power Status Indicators*

LED Graphic Symbol	Indication
	 Blue light indicates the system is ON. Blinking blue light indicates the notebook is in suspend mode.
	 Blue light indicates the WLAN/Bluetooth is active.
	 Battery status Charging – Blinking Blue Full – Blue Low – Blinking Red
	 Blue light indicates the hard drive and/or optical drive is being accessed.

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### *Multi Media Buttons*

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

1. Silent Mode (Power Management)
2. Internet Explorer
3. Media Player Application
4. Previous Mode
5. Play/Pause Mode
6. Next Mode
7. Stop Mode
8. Volume Mode

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### *Front View*

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1.  Microphone/Audio Line-in Jack
2.  Stereo Headphone Jack
3.  5-in-1 Card Reader (SD/MC/MS/MS-Pro/XD Memory Card)


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## *Left Views*

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- 1.  DC In
- 2.  Modem Port (Optional)

 **NOTE....** Always disconnect all telephone lines from the wall outlet before servicing or disassembling this equipment. To reduce the risk of fire use only No. 26 AWG or larger telecommunication line cord.

- 3.  CRT Port
- 4.  Ethernet / LAN Port

 **NOTE....** When using a LAN, please use an EMI Shielding Cable to minimize an interference when transmitting

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## 5. USB 2.0 Port


### *Right View*

---



#### 1. Enhanced USB 2.0 Port

 **NOTE....** This strengthens USB power source for the USB port, the function lets users when using any other major big power consumption USB device in avoiding creating any harm to the USB port.

 **WARNING....** When using any External USB Device, only use the approved cable provided by the manufacturer. Using other cable where it affects the current flow will cause undetermined damage. Not suitable to use any 3.5" or 5.25" USB ODD or HDD

#### 2. USB 2.0 Port

#### 3. Optical Drive

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4.  Kensington Lock

***Bottom View***



- 1. Battery Lock
- 2. Expansion Compartment
- 3. Battery Compartment
- 4. Battery Release Latch
- 5. Hard Disk Drive

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# Chapter



3

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# Getting Started

## Connecting to a Power Source

### *Connecting the AC Adapter*


A universal AC adapter is provided to supply your computer with power and also charge the computer's battery pack. The adapter's AC input voltage can range anywhere from 100 to 240 volts, covering the standard voltages available in almost every country. To connect the computer to an external power source:



 **WARNING....** Do not use inferior extension cords as this may result in damage to your notebook. The notebook comes with its own AC adapter. Do not use a different adapter to power the computer and other electrical devices.

Whenever possible, keep the AC adapter plugged into the notebook and an electrical outlet to recharge the battery.

---

 **WARNING....** Never turn off or reset your notebook while the hard disk is in use status icon is lit; doing so can result in loss or destruction of your data. Always wait at least 5 seconds after turning off your notebook before turning it back on; turning the power on and off in rapid succession can damage the notebook's electrical circuitry.

### ***Turning On Your Notebook Computer***

Hold the button down for a second or two and release. The Power-On Self Test (POST) runs automatically.


After the POST is completed, the computer reads the operating system from the hard disk drive into computer memory (this is commonly referred to as "booting" a computer). If your OS (Operating System such as Windows XP.... etc) is installed, it should start automatically.


To turn the notebook off, save your work and close all open applications, click on **Start**, then **Shut Down** and select **Shut down the computer** and click "Yes" or press the power button for 4-6 seconds.

### ***Operating on Battery Power***

Your computer comes with a rechargeable battery pack that lets you operate the computer without an external power source. When the battery pack is fully charged, you can operate the computer under the following conditions:

- The battery pack initially has a full charge.
- No peripheral devices are installed.

 **WARNING....** Only use batteries that are approved by an authorized dealer. All batteries are not the same and therefore should not be treated as such. Using the wrong battery could cause serious damage to your computer and yourself through toxic emissions.

 **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.

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

### ***Installing and Removing the Battery Pack***

***To Install the Battery Pack:***

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### ***To Remove the Battery Pack:***

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### ***Charging the Battery Pack***

The installed battery pack charges automatically any time the computer is connected to the AC adapter and an external power source. It is a good idea to occasionally discharge the battery pack fully to preserve its operating performance.

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# Chapter

4

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# *Using the Notebook Computer*

## ***Adjusting the LCD Screen Display***

The LCD screen display can be adjusted by the following key combinations.

Fn + F4	Changes Display Mode: LCD-only, CRT-only
Fn + F7	Increases the brightness level.
Fn + F8	Decreases the brightness level.

## ***LCD Care***

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LCD screens are delicate devices that need careful handling. Please pay attention to the following precautions:

- When you are not using the computer, keep the LCD screen closed to protect it from dust.
- If you need to clean your LCD screen, use a soft tissue to gently wipe the LCD surface.
- Do not put your fingers or sharp objects directly on the surface and never spray cleaner directly onto the display.
- Do not press on, or store any objects on the cover when it is closed. Doing so may cause the LCD to break.

## ***External CRT Display***

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You can hook up an external monitor through the 15-pin CRT connector. Three configurations are available:

- LCD only
- CRT only

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You can switch between these display configurations by pressing the key combination **[Fn] + [F4]**.

### ***The Notebook's Hot Key Controls***

Action	System Control
Fn + F1	Enters Suspend Mode.
Fn + F2	Enters the Silent Mode.
Fn + F3	Mute/Unmute Audio/ PC beep to Output
Fn + F4	Changes Display Mode: LCD-only, CRT-only
Fn + F5	Increases the speaker volume.
Fn + F6	Decreases the speaker volume.
Fn + F7	Increases the brightness level.
Fn + F8	Decreases the brightness level.
Fn + F9	Enable/Disable the Touchpad
Fn + F10	Enable/Disable the WLAN
Fn + F11	Enable/Disable the CCD camera
Fn + F12	Enable/Disable the HSPA application

### ***The TouchPad***

The touchpad is a rectangular electronic panel located just below your keyboard. You can use the static-sensitive panel of the touchpad and slit it to move the cursor. You can use the buttons below the touchpad as left and right mouse buttons.



---

### ***TouchPad Precautions***

---

The TouchPad is a pressure sensitive device. Please take note of the following precautions.

- Make sure the TouchPad does not come into contact with dirt, liquids or grease.
- Do not touch the TouchPad if your fingers are dirty.
- Do not rest heavy objects on the TouchPad or the TouchPad buttons.

You can use the TouchPad with Microsoft Windows as well as non-Windows applications.

### ***Power Saving Modes***

This section contains information on the notebook's power system, including the AC Adapter, the battery system, recharging the battery, and tips for conserving battery power.

The power system is comprised of two parts, the AC Adapter and the battery system. The AC Adapter converts AC power from a wall outlet to the DC power required by the computer.

### ***The Battery Power System***

---

Before using the computer on battery power for the first time, check the battery status icon on the Windows Toolbar to make sure the battery is fully charged.

See Battery Status later in this section for a description and explanation of the Windows Battery icon.

Charging the battery takes about 2.5 hours to charge when the system is in off state. If possible, always charge the battery completely.



**NOTE....** If you use the battery so frequently that it exceed more than 20 times by fully discharging/charging in a single month alone, we recommend you to perform the "Battery Calibration" process every 3 months to maintain the battery life.

Please refer to the topic on "Battery Calibration" describing how to calibrate your system battery discussed on the latter part of this chapter.

If you discover the battery life is getting shorter, please

---

perform the “Battery Calibration” process immediately.

## ***Removing the Battery Pack***

To remove the battery pack from its compartment, please refer to Chapter 3, ***Inserting and Removing the Battery Pack***.

### ***Preparing the Battery Pack for Use (Battery Calibration)***

---

Before using the battery pack for the first time, the battery pack should be calibrated in order to get accurate reporting of remaining battery life status.

To calibrate the battery pack follows the instructions below:

1. Insert the battery into the battery compartment and turn on the notebook. If the battery is completely without power go to the next step. Otherwise, let the battery run down until the battery low-low warning beeps are heard. The system will automatically enter Suspend mode.
2. Turn the notebook off. Connect the AC adapter and let the battery fully recharge. When the battery charge indicator turns off, the battery is fully charged.
3. Turn On the notebook, let the battery run down until the battery is in low-low state and you hear a warning beeps. The system will automatically enter the Suspend mode. You can now connect the AC adapter.
4. The battery pack is now calibrated properly.

In general, using the battery until the low-low battery-warning indicator appears and fully recharges the battery each time (full discharge/charge cycle) will ensure the accurate reporting of the battery gauge status.

### ***Automatic Battery Pack Charging Function***


---

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 2.5 hours when the notebook is turned off and approximately 3.5 hours when the notebook is turned on.

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

---

 **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 off.

### ***Battery Status***

---

Windows Vista has an applet in the Control Panel that will display an icon in the Windows taskbar indicating when the notebook is running on battery power or is attached to the AC adapter.

This applet also displays a meter that indicates how much charge is remaining in the battery.

### ***Battery Low Warning***

---

When the pack initially reaches the “Battery Low” state approximately 7 ~ 10 minutes of the usable battery life is left.

You will hear an audible beep signal every 15 seconds alerting you to the “Battery Low” status. When the battery power reaches the “Battery Low Low” status the beeping sound will accelerate.

Your battery now has 1 ~ 2 minutes of battery charge remaining. You must save your data or connect AC power immediately; otherwise, you may lose your data.

Sound	Meaning
Continuous beeping every 5 seconds	Battery Low: Indicates that there is 7 to 10 minutes charge remaining.
Beeping accelerates	Battery Low Low: Indicates that there is 1 to 2 minutes of battery charge remaining. Save your work and turn off the notebook, or connect the AC adapter.

When there is only one minute of battery charge remaining, the notebook will suspend to the HDD and power off. You should connect AC power and resume to save your work.

### ***Small Battery for the Real Time Clock***

---

There is a small built-in battery pack that supplies power to the system in order to maintain certain system information while the power is off.

If the notebook is left without a power source for long period of

---

time, this battery will be exhausted and system information will be lost.



**WARNING....** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. Never remove the battery pack while the power is on as this may result in data loss when the system loses power.

### ***Resetting the System***

After installing a software application package, you may be prompted to reset the system to load the changed operating environment.

To reset the system, or “reboot,” press the **[Ctrl]+[Alt]+[Delete]** keys simultaneously. This is known as “warm boot.” This key combination acts as “software” reset switch when you encounter hardware or software problems, which lock up the notebook.

If this key combination does not shut down the notebook, you can reset the notebook by using the notebook's power button. Should the notebook lock up for some reason, pressing this button powers the notebook off.

### ***Adjusting the Brightness***

To adjust the brightness on the LCD screen, press and hold down the **[Fn]** key in the lower left hand corner of the keyboard and press the **[F8]** key to reduce the brightness or **[F7]** to increase the brightness.

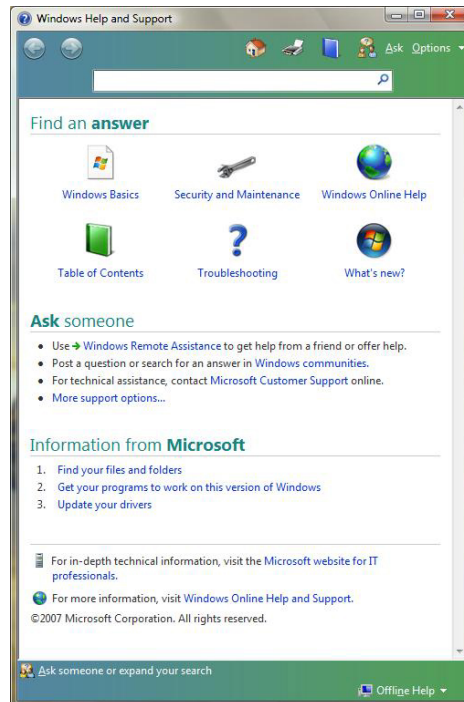
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## Using the Windows

### Help Windows

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For Windows Vista help, click **Start → Help and Support** icon will open the dialog box.



### Desktop

---

Desktop may vary differently on the software installed in your notebook with different or additional shortcuts.



---

The **Start** menu allows you to adapt and show the programs used most frequently. If you wish to keep an item, right click the item and click **Pin to Start menu**.

**Log Off** will enable the current user to log off and allows a new user to log on.

**Turn Off Computer** allows you to shut down, restart, and Stand by modes for power saving purposes.

### ***Taskbar***

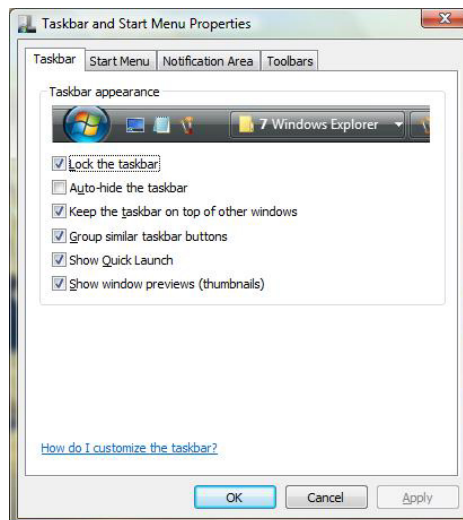
When you open a program, its icon is displayed at the taskbar for you to conveniently move between programs by clicking the relevant button.

To add or remove toolbars from the taskbar: right click an empty spot on the taskbar, select **Toolbars** → **choose the toolbar you want to add**.

### ***Notification***

The icons that appear here are for quick access to some programs and computer functions that you frequently used. To prevent Windows Vista from hiding icons:

From an empty spot on the **Taskbar**, right click your mouse and select the **Properties**, remove the checked mark on the **Auto-hide the taskbar**.



---

## Control Panel

It is in this area that you can change how Windows looks and works. Click **Start → Control Panel** dialog box. There are two interfaces – **Classic View**.



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# Chapter

5

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## *Internet Connection*

There are numerous ways to connect to the Internet. This may vary from the user's working environment as well as system specifications.

- Using a modem and a telephone line (optional)
- Using a wired LAN
- Using a wireless LAN

### ***Using a modem for Connection to Internet (optional)***

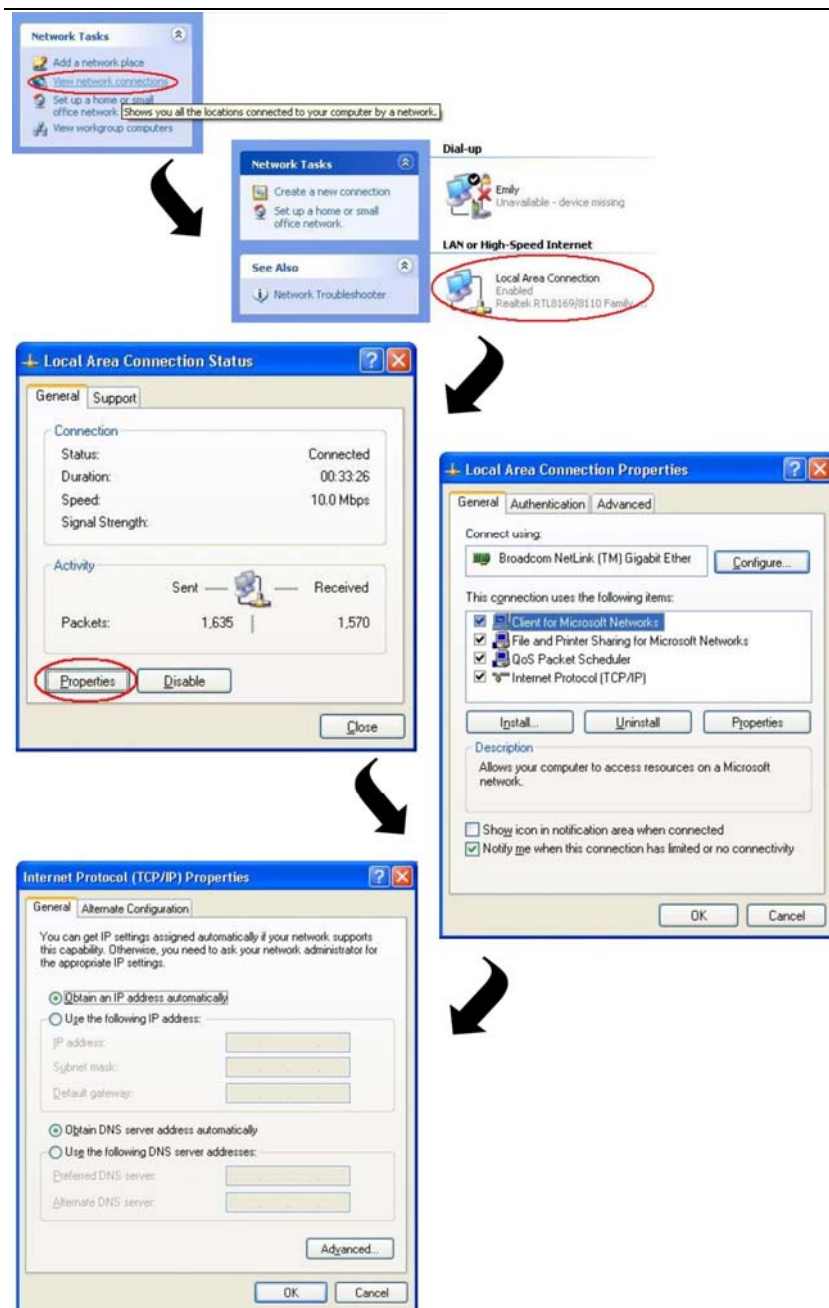
- Use a telephone line to connect to the modem port of your computer. Do not use a digital telephone line.
- Please apply to an Internet Service Provider (ISP) for Internet service in order for you to connect the modem to the Internet and use e-mail.



**NOTE....** For more detail on the Network key, please refer to your local ISP provider and follow the procedures describe in the "ISP Installation Guide" to proceed with the installation.

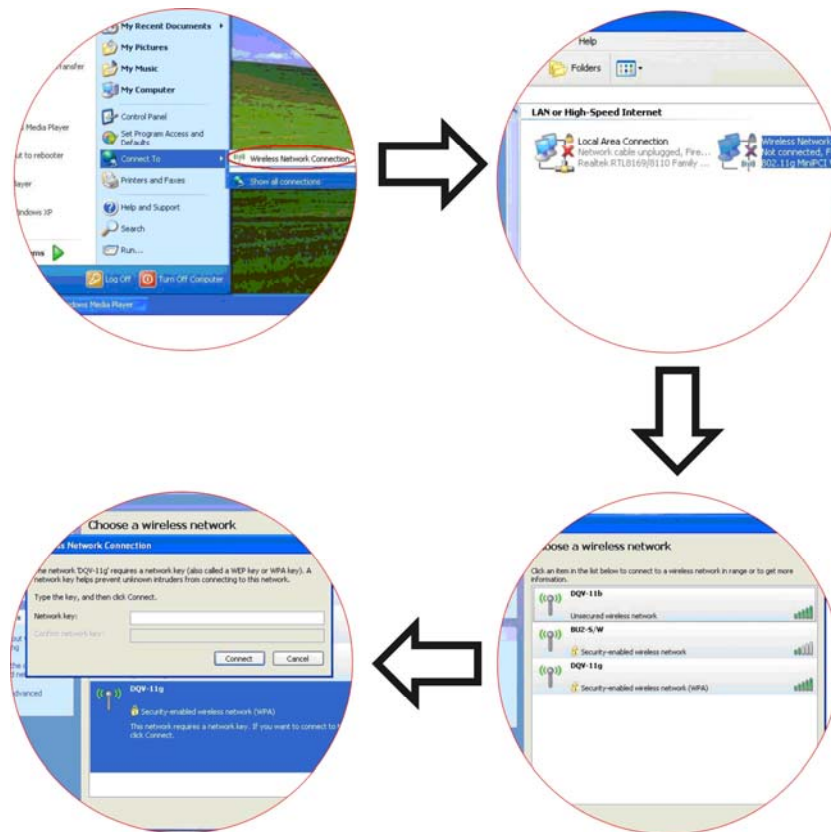
### ***Using a wired LAN for Connection to Internet***

For you connect to the Internet, a wired LAN environment normally uses the company's LAN or a broadband modem.



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## Using Wireless LAN Network for Connection to Internet



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# Chapter

*6*

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## ***Running BIOS Setup***


The Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System). It runs and maintains a variety of hardware functions. It is menu-driven software, which allows you to easily configure and change the settings.

The BIOS contains manufacture's default settings for the computer's standard operations. However, there are occasions when you may be required to modify the default settings in the BIOS.

The BIOS allows you to set up passwords to limit access to users. This is an important feature because a great deal of vital information is carried within the computer nowadays. Unauthorized access can be prevented. Later in this chapter, you will learn how to use this security feature.

### ***Entering the BIOS Setup Screen***

First turn on the power. When the BIOS performs the POST (Power-On Self Test), press F2 key quickly to activate the BIOS Setup Utility.

 **NOTE....** You may need to press F2 key fairly quickly. Once the system begins to load Windows, you may have to retry by cycle-power on again

### ***Leaving the BIOS Setup Screen***

When you have finished modifying the BIOS settings, exit the BIOS. It takes a few seconds to record changes in the CMOS.

---

## BIOS Action Keys

Function Key	Command	Description
ESC	Exit	Leaves a sub-menu to return to the previous menu OR exits the BIOS setup while saving changes.
F1	General Help	Shows the Help Screen
F10	Save and Exit	Saves changes and reboots the computer.
<Tab>	Select a field	Selects the next field.
↑	Select an item	Selects the next upper item.
↓	Select an item	Selects the next lower item.
-	Lower value	Selects the next value within a field.
+	Higher value	Selects the next value within a field.

## Modifying the BIOS Settings

The BIOS setup main menu is subdivided into sub-menus. Each menu item is described in this section.

### Info Setup

PhoenixBIOS Setup Utility					
Info	Main	Advanced	Security	Boot	Exit
<div>BIOS Information BIOS Version: 0.31.10 EC Version: 0.20.08  Procesor CPU Type Intel ® Pentium ® Core(TM)2 Duo CPU T9800 @2.16GHz Processor Intel Centrino ® + Core (TM)</div>					
F1 Help	↑↓	Select Item	-/+	Change Values	F9 Setup Defaults
Esc Exit	←→	Select Menu	Enter	Select ► Sub-Menu	F10 Save and Exit

---

## *Main Setup*

---

Under this menu, you may change time/date and view basic processor and system memory information.

PhoenixBIOS Setup Utility					
Info	Main	Advanced	Security	Boot	Exit
System Time: [11:43:05] System Date: [12/30/2008]  ▶ SATA Port 2 [TSSTcorp CDDVDW TS-L633A-] ▶ SATA Port 1 [WDC WD3200BEVT-22ZC0-(S1)]  System Memory: [None] Extended Memory: [None]  640 KB 3968 MB					Item Specific Help  <Tab>, <Shift-Tab>, or <Enter> selects field.
F1 Help	↑↓	Select Item	-/+	Change Values	F9 Setup Defaults
Esc Exit	←→	Select Menu	Enter	Select ▶ Sub-Menu	F10 Save and Exit

PhoenixBIOS Setup Utility					
	Main				
SATA Port 2 [TSSTcorp CDDVDW TS-L633A-(S2)]					Item Specific Help
Transfer Mode: [FPIO 4 / DMA 2] Ultra DMA Mode: [Mode 5]					Information
F1 Help	↑↓	Select Item	-/+	Change Values	F9 Setup Defaults
Esc Exit	←→	Select Menu	Enter	Select ▶ Sub-Menu	F10 Save and Exit

PhoenixBIOS Setup Utility			
	Main		
SATA Port 1	[WDC WD3200BEVT-22ZCT0-(S1)]	Item Specific Help	
Maximum Capacity:	320GB	Information	
Transfer Mode:	[FPIO 4 / DMA 2]		
Ultra DMA Mode:	[Mode 5]		
F1 Help	↑↓ Select Item	-/+ Change Values	F9 Setup Defaults
Esc Exit	←→ Select Menu	Enter Select ▶ Sub-Menu	F10 Save and Exit

### *Advanced Setup*

PhoenixBIOS Setup Utility					
Info	Main	Advanced	Security	Boot	Exit
<p>Setup Warning</p> <p>Setting items on this menu to incorrect values may cause your system to malfunction.</p> <p>Execute Disable Bit: [Enabled]</p>				Item Specific Help	
				<p>This feature activates a CPU support for the No Execution Memory Protection that is available in some O/S.</p>	
F1 Help	↑↓ Select Item	-/+ Change Values	F9 Setup Defaults		
Esc Exit	←→ Select Menu	Enter Select ▶ Sub-Menu	F10 Save and Exit		

---

## Security

PhoenixBIOS Setup Utility					
Info	Main	Advanced	Security	Boot	Exit
Supervisor Password Is:			Not Installed	Item Specific Help  Supervisor Password controls access to the setup utility.	
User Password Is:			Not Installed		
Set Supervisor Password			[Enter]		
Set User Password			[Enter]		
Password on boot:			[Disabled]		
F1 Help Esc Exit	↑↓ ←→	Select Item Select Menu	-/+ Enter	Change Values Select ► Sub-Menu	F9 Setup Defaults F10 Save and Exit

## Boot Setup

PhoenixBIOS Setup Utility					
Info	Main	Advanced	Security	Boot	Exit
LAN Remote Boot: [Disabled]				Item Specific Help	
▶ Boot Device Priority				Select with LAN-Type is used for boot	
F1 Help Esc Exit	↑↓ ←→	Select Item Select Menu	-/+ Enter	Change Values Select ▶ Sub-Menu	F9 Setup Defaults F10 Save and Exit



PhoenixBIOS Setup Utility			
			Boot
Boot Device Priority		Item Specific Help	
Boot priority order: 1: USB KEY: 2: USB FDC: 3: USB HDD: 4: IDE CD: TSSTcorp CDDVDW TS-L633A-( 5: IDE HDD: WDC WD3200BEVT-22ZCT0-(S1) 6: PCI SCSI: 7: PCI CDROM: 8: PCI BEV: Excluded from boot order: : Other USB:		Keys used to view or configure devices: Up and Down arrows select a device. <+> and <-> moves the device up or down. <X> exclude or include the device to boot.	
F1 Help	↑↓	Select Item	-/+
Esc Exit	←→	Select Menu	Enter
		Change Values	F9 Setup Defaults
		Select ▶ Sub-Menu	F10 Save and Exit

### *Exit Setup*

PhoenixBIOS Setup Utility			
Info	Main	Advanced	Security
			Boot
			Exit
			Item Specific Help
Save Changes & Exit Discard Changes & Exit Get Default Values Load Previous Values			Exit System Setup and save your changes to CMOS.
F1 Help	↑↓	Select Item	-/+
Esc Exit	←→	Select Menu	Enter
		Change Values	F9 Setup Defaults
		Select ▶ Sub-Menu	F10 Save and Exit

---

## System Recovery

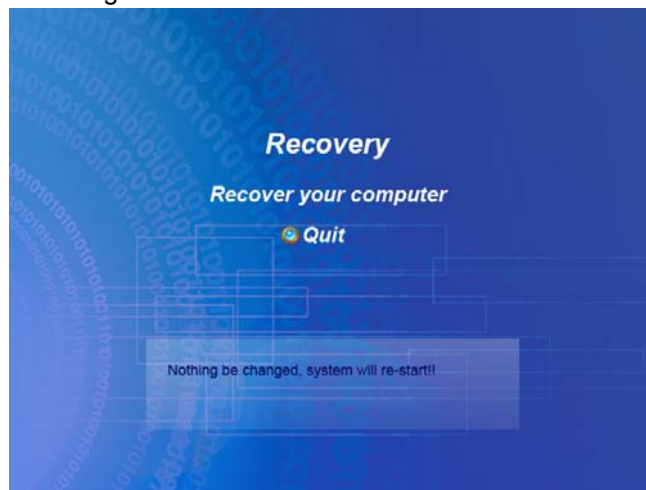
 **NOTE....** When you start to use this notebook, kindly make a rescue disk by “System Recovery AP” to back up your disk.” This application can be activated by: From “Start”, click on the  “System Recovery

This process enables you to restore your system whether your system is damaged or for some other reason that you can not operate your computer.

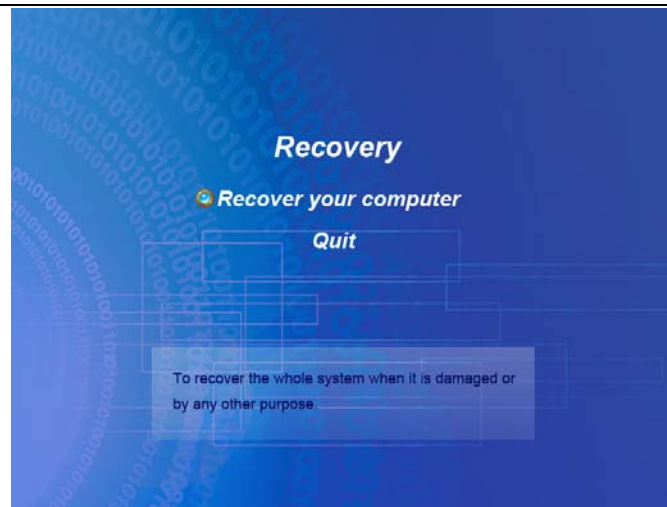
First turn on the power. When the BIOS performs the POST (Power-On Self Test)

Press DEL to run Setup / Press F11 for BBS POPUP  
Press TAB to display BIOS POST Message / Press F9 boot from the Restore

- Press F9 key quickly to activate the System Recovery Program.



- Or click the “Quit” if you want to discontinue with the application.



- Click the “Recover your computer” if you want to proceed.



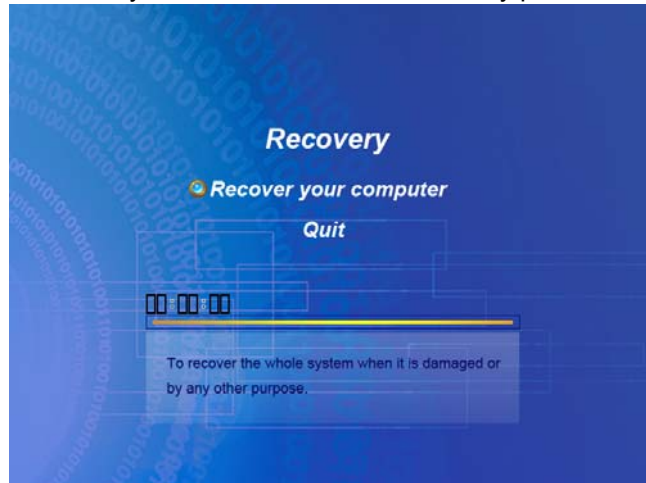
- You will be asked whether you would like to proceed with the recovery procedures.
- Click “OK” if you want to proceed or “Cancel” if you want to discontinue with the recovery procedures.

---

**NOTE....** This illustration will be shown twice after you made the first decision in case you change your mind to discontinue with the recovery procedures.



- The system will start with the recovery procedures.



- This illustration indicates the system has finished with the recovery procedures.

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# Chapter

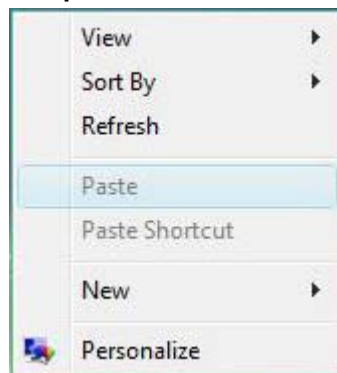


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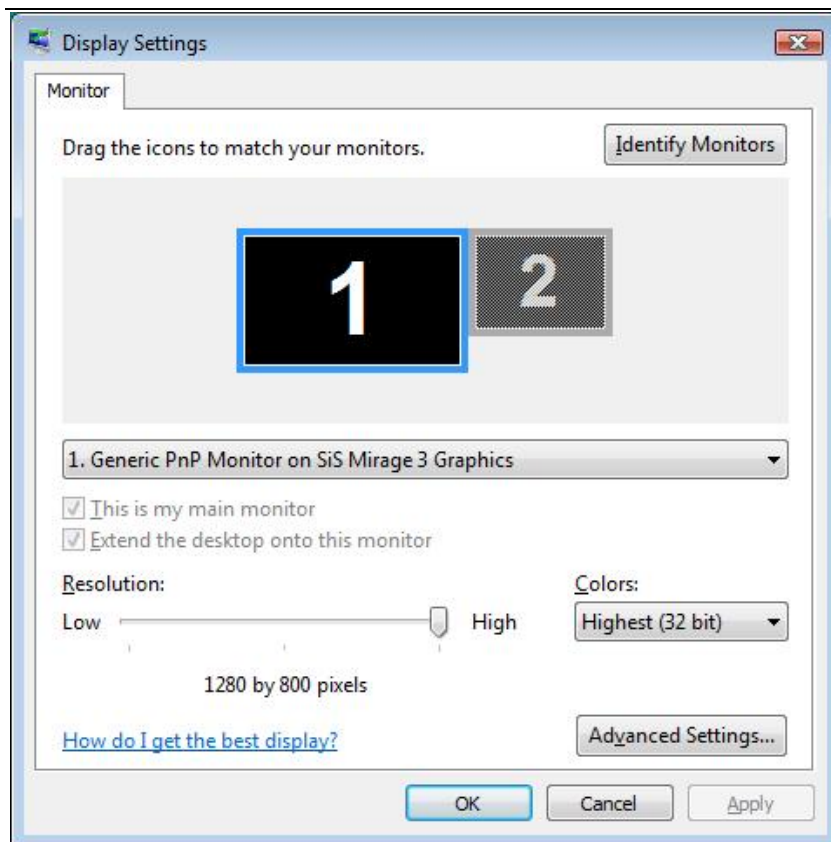
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## *VGA Utilities*

You can click the touchpad or mouse right button and select the “**Properties**” item.



Select the “**Display Settings**” option to enter its window display. Click on the “**Advanced Settings**” tab to enter “**Generic PnP Monitor on SiS Mirage 3 Graphics**” window display.



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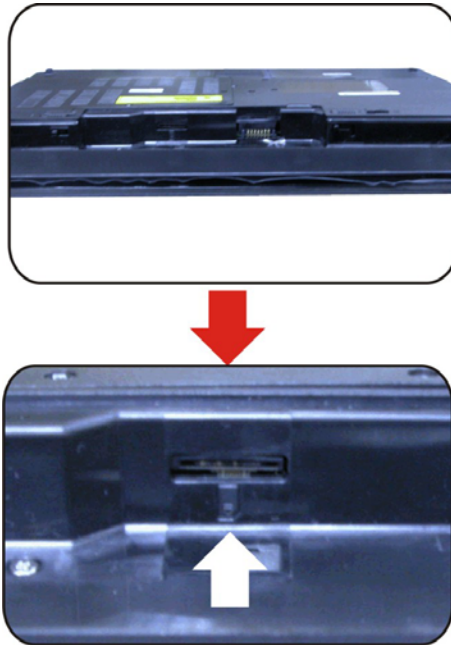
# Chapter

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## *3G Connection(Optional)*

3G is the third generation of mobile phone standards and technology. 3G enable users a wide range of more advanced service while achieving greater network capacity through improved spectral efficiency.



Press the hot key combination of Fn + F12 or click the 3G

application icon  to start executing the application.



To disconnect, click on the “**Disconnect**” icon will exit the 3G application.

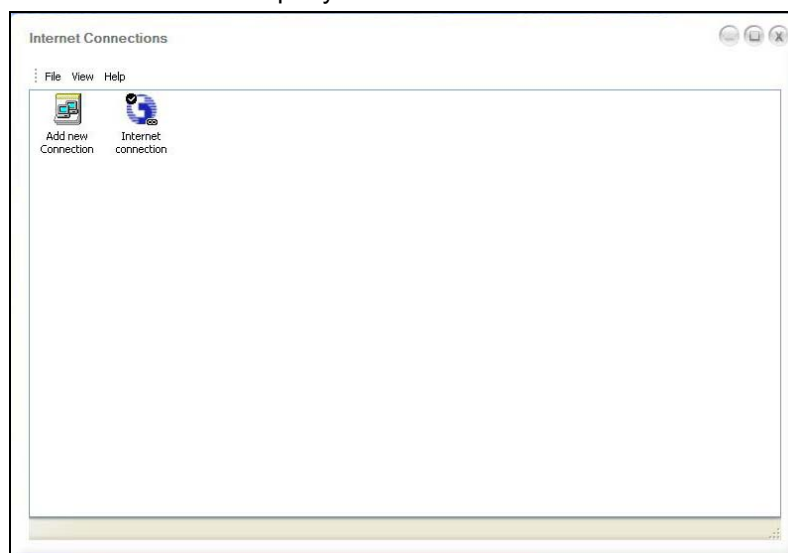


Another way for 3G connection is by clicking on the “**Menu**” button.



Select the “**Setting**” and click on the “**Internet Connections**” to enter the connection window display.

Click on the “**Add new Connection**” in case you want to connect to other telecom company.



---

# Chapter

9

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# *Troubleshooting*

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***

---

- 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 the audio codec mentioned in the spec is the default playback device.

### ***Sound cannot be recorded***

---

- You will need to plug-in an external microphone to the microphone connector to record sound.
- Double-click the speaker icon on the lower right corner of the taskbar to see if the microphone has been muted.
  - Click Options and select Properties.
  - Select Recording and click the OK button.

- 
- 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 the audio codec mentioned in the spec 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.
- 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.

## **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 least 1280x800 for optimal viewing.
  - Go to [Start > Settings > Control Panel] and double-click the Display icon.
  - Under the Settings page, set screen resolution to at least 1280x800.

### ***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 touchpad while typing or using the touch pad.

### ***The built-in keyboard accepts no input***

---

- Please try to make sure the system doesn't hang up and is still working.

### ***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). Send the battery to the dealer for replacement.

---

## 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 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.

## PC Card 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 troubleshooting.

### *The PC card cannot be recognized*

---

- 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.

---

## **USB2.0 Problems**

### ***The USB device does not work***

---

- Check the settings in the Windows Control Panel.
- Make sure you have installed the necessary device drivers.
- Contact the device vendor for additional support.

---

# Appendix



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# *Specification*

## ***O.S.***

- Supports Windows XP OS with SATA HDD
- Supports Windows Vista Home Basic OS (option)
- Supports Linux Linpus Lite 9.4 with uSSD

## ***CPU***

- Support Penryn CPU dual core, 45nm, TDP 35W (Montevina) 800/1066MHz FSB, 4M/ 6M L2 cache, socket P
- Support Pentium / Celeron CPU, TDP 35W (must use with 90W adaptor only)

## ***Memory***

- DDRII 667/800MHz support (800MHz module downgrade to 667MHz) RAM socket \* 2
- System DDRII up to 4 GB total, base on RAM module available

## ***Core Logic***

- SiS 968

## ***VGA***

- SIS M672FX + SIS 307ELV

## ***Audio Codec***

- Realtek ALC662

## ***Card reader (5 in 1)***

- Support SD/MMC/MS/MS pro/ XD Memory Card

- 
- USB2.0 interface

#### ***LAN Controller***

- Supports 10/100 Mb/Sec.
- MII interface

#### ***Wireless LAN***

- Mini Card w/ PCI-E interface
- IEEE 802.11 B/G support w/ 1 Antenna

#### ***Camera***

- Support 1.3M & 2.0M Camera

#### ***Keyboard***

- US 86 /UK 87/ BR 88 keys KB support

#### ***Pointing Device***

- PS2 Touch Pad with 2 buttons
- Support gesture function (optional)

#### ***LCD***

- 14.1" WXGA, resolution 1280 x 800 (16:10)
- 14" WXGA, resolution 1366 x 768 (16:9)
- 16:10 and 16:9 co-design
- 13.3" WXGA, resolution 1366 x 768 (16:9),

#### ***HDD***

- HDD for 2.5" 9.5mm SATA support

#### ***Optical Drive***

- SuperMulti

#### ***Battery Pack***

- 4 cells, 14.8V/2200 (4S1P), BAK
- 4 cells, 14.4V/2200mAh (4S1P), LG
- 4 cells, 14.6V/2600mAh (4S1P),LG
- 6 cells, 11.1V/4400mAh (3S2P), BAK
- 6 cells, 10.95V/5200mAh (3S2P),LG
- 6 cells, 10.8V/4400mAh (3S2P), LG

#### ***AC-Adapter***

- Automatics Voltage adjustment between 100 and 240VAC

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50/60Hz, 2 Pin

- 65 Watts. (for Penryn 25W & 35W CPU)
- 90 Watts (For Pentium / Celeron 35W CPU)

### ***Speaker/MIC***

- Build-in 2 speakers
- Internal Microphone support

### ***BIOS***

- Supports PnP, ACPI 3.0
- Support external USB flash memory card boot up.
- With Phoenix BIOS and 1MB flash ROM

### ***Power Management (default: Silent mode)***

- “Smart Power II” Power Management

### ***Physical Outline***

- Dimension: 342 x 244 x 28~38mm (w/o rubber foot)
- Weight: 2.4 Kg w/ 6 cell bat.

### ***EMI***

- CE, FCC

### ***RF***

- CE, R&TTE report/document, FCC

### ***Safety***

- CB report/ETL/CCC