Limitation of Liability

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
There is no internal power supply.

Table of Content

Chapter

1

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 go through the manual carefully before using your system.

Whether or not you are an experienced user, you should consult 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:

Please read these safety instructions carefully.

1. Please keep this User's Manual for later reference.
2. 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.
3.   For pluggable equipment, that the socket-outlet shall be installed near the equipment and shall be easily accessible.
4. Please keep this equipment from humidity.
5. Lay this equipment on a reliable surface when installed. A drop or fall could cause injury.

6. Make sure to use the right voltage for the power source when connecting the equipment to the power outlet.
7. 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.
8. All cautions and warnings on the equipment should be noted.
9. If the equipment is not used for a long time, disconnect the equipment from the main power outlet to avoid being damaged by transient overvoltage.
10. Never pour any liquid into the opening, this could cause fire or electrical shock.
11. Never open the equipment. For safety reasons, the equipment should only be opened by a qualified service personnel.
12. If on the following situation 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 signs of breakage.
13. Do not leave this equipment in an environment unconditioned, storage temperature above 60°C (140°f), it may damage the equipment.
14. The unit can be operated at an ambient temperature of max. 5°C ~ 35°C.
15. The sound pressure level of the operator's position according to IEC 704-1: 1982 is equal or less than 70 dB(A).
16. 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 100-240 Vac. The following information explains the requirements for power cord set selection.
        ■ The cord set must be approved by 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 .75m m^2 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 a least 2.5 Amperes and voltage rating of 125 or 250 Vac.

⚠ **CAUTION...** **MODEL O40IIx/O40IAx (x=0~9) IS DESIGNED TO USE WITH THE FLLOWING AC ADAPTER MODEL ONLY 65W ADP:**

- ➢ Delta Electronic, Inc.
  ADP-65JH AB(65W, 2pin)
  ADP-65JH BB(65W, 3pin)
- ➢ HUNTKEY ELECTRONIC CO., LTD
  HKA06519034-8C(65W, 2PIN)

17. 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.

18. Do not use the AC adapter near open water or other liquids. Never spill liquid into the AC adapter.

19. 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.

20. 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.

21. 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 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 dirse 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 Stromnet die Anschlußwerte.
8. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitun abgestellt werden.
9. Alle Hinweise und Warnungen, die sich am Gerät befinden, sind zu beachten.
10. Wird das Gerät üeinen 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 Flüssigkeien in das Gerät gelangen. Dies könne einen Brand bzw. Elektrischen Schlag auslösen.
12. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von authorisiertem 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.
- **e.** Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
- **f.** Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.

14. **VORSICHT**: Explosiongsgetahr 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 5ºC ➔ 35ºC.

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 100-240V 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 m^2 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.

⚠ **VORSICHT...** **Mit dem O40IIx/O40IAx (x=0~9) muss ein AC-Adapter folgenden Modells verwendet werden**

65W ADP:

- ➢ Delta Electronic, Inc.
  ADP-65JH AB(65W, 2pin)
  ADP-65JH BB(65W, 3pin)
- ➢ HUNTKEY ELECTRONIC CO., LTD
  HKA06519034-8C(65W, 2PIN)

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 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.**

Heat, Cold, Humidity, and Glare

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 overheated, 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 extreme 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.

Chapter

2

Introduction

Preparing your Computer

➊ **Install the battery pack**
➋ **Connecting the AC adapter**
➌ **Opening the display panel**
➍ **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

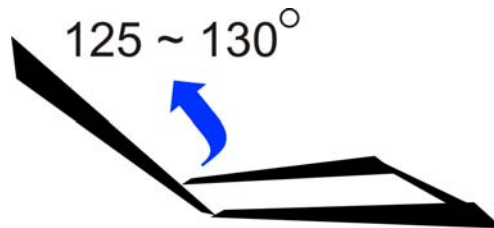**NOTE....** **Picture is only for reference**

❶ **Camera (Optional)**

NOTE.... **For best system performance, image is compressed when using the Crazy Talk Camsuite PRO's preview function. Photographs taken with 'snapshot' retain its original quality.**

❷ **LCD Display**

WARNING.... **This LCD panel can only support up to a maximum opening of 125-130 degrees, please do not push it forcibly.**

125 ~ 130°

❸ **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.

❹ **Keyboard**

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

❺ **Microphone**

❻ **Touchpad**

❼ **Touchpad Buttons**

❽ **Subwoofer Speakers**

❾ **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 LAN is active.
	Battery status
	Charging – Blue light flashing
	Full – Blue
	Low – Red light flashing
	Blue light indicates the hard drive and/or optical drive is being accessed.

❿ **Microphone/Audio Line-in Jack**

⓫ **Stereo Headphone Jack**

⓬ **6-in-1 Card Reader SD / SDXC / SDHC / MS / MMC / MS Pro Memory Card**

❶ **Kensington Lock**
❷ **DC In**
❸ **Ventilation Opening**

❹ **Ethernet / LAN Port**

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

❺ **CRT Port**

❻ **HDMI Port (Option)**

❼ **USB 2.0 Port**

Right View

❶ USB 2.0 Port

❷ USB 2.0 or 3.0 Port (Either one)

NOTE.... This system provides two USB 2.0 and one USB 3.0 (optional) chargeable ports.

This model provides charging function through USB 2.0 or 3.0 port on any peripherals such as cellular phones whether the system is ON or OFF under AC mode.

❸ Optical Drive

❹ 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.

Bottom View

❶ Battery Release Latch

❷ Battery Compartment

❸ Battery Lock

Chapter

3

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 Vista…. Etc.) is installed, it should start automatically.

To turn the notebook off, save your work and close all open applications, click on **Start**, then **Sh_u_t 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.

The disk/DVD-ROM drives run no more than 10% of the time

⚡ 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.**

WARNING.... 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.

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

Installing and Removing the Battery Pack

To Install the Battery Pack:

To Remove the Battery Pack:

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.

Chapter

4

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/HDMI-only and simultaneous LCD&CRT/HDMI.
Fn + F7	Increase the brightness level.
Fn + F8	Decreases the brightness level.

LCD Care

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

You can hook up an external monitor through the 15-pin CRT connector.

- ■ LCD only
- ■ CRT/HDMI only
- ■ Simultaneous LCD&CRT/HDMI

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/HDMI -only and simultaneous LCD&CRT/HDMI.
Fn + F5	Increase the speaker volume.
Fn + F6	Decrease the speaker volume.
Fn + F7	Increase the brightness level.
Fn + F8	Decrease the brightness level.
Fn + F9	Enable/Disable the Touchpad
Fn + F10	Enable/Disable the WLAN
Fn + F11	Enable/Disable the CCD camera

On Screen Display (OSD)

OSD (On Screen Display) provides you an easy access to the function key you normally use in executing some of the application you would like to perform.

Another alternative is by executing the hot key combination we provide which is imprinted on the upper portion of the keyboard.

After you activate the function key, the icon will be shown at the upper right hand corner of your window screen.

Screen Display Icon

T/P On/Off	
WebCam On/Off Fn + F11	
Silent Mode On/Off	
Caps Locks On/Off	
Num Locks On/Off	

Scroll Locks On/Off		
RF On/Off Fn + F10		
Brightness Fn + F7/F8		
Volumn On/Off Fn + F3		
Volume Fn + F5/F6		

OSD-Bar Icon

Caps Locks On	
Num Locks On	
Scroll Locks On	
Silent Mode ON	
Touchpad Off	
WLAN On RF On (By project)	
Web Cam On	

The OSD bar can be shown on the sidebar or you can drag it anywhere either on top (horizontally) or on the sides (vertically) of your screen.

Vertically - Right or Left

Horizontally
Top or Bottom

Live Power (Optional)

Live Power is a saving scheme technique that provides saving your battery consumption by disabling some devices thus extending the battery life.

Click on the Live Power icon from the lower right bar of your screen to open up the Live Power Display.

The Live Power provides five modes according to the application that you are executing:

■ **Power saving mode**: Provides the low consumption function, suitable for low utilization ratio and suspend mode.

■ **Normal mode**: Provides for general work status.

■ **High Performance mode**: For highest efficiency condition.

■ **DVD player mode**: Provide for watching movie playback.

■ **Dynamic mode**: For system power utilization mode, switching the CPU loading and battery life to appropriate mode.

	Power Saving	Normal	High Performance	DVD Player	Dynamic
Power off LCD panel	Available	Available	Available	*Available (4)	Available
Long Bat mode	Available	Available	Available	Available	Available
Power off LCD panel	Available	Available	Available	Not available	Available
Power off DVD drive	Available	Available	Available	Not available	Available
Power off Voice device	Available	Available	Available	Not available	Available
Power off LAN/WLAN/ HDMI/ Bluetooth	Available	Available	Available	Available	Available
Enable advance power engine	Available	Available	Not available	Available	Not available
Turbo mode	Not available	Available	Available	Available	Available

This Live Power application provides a super saving options if the following items are selected:

■ Power Off LCD panel

■ Enable advance power saving engine

Power Saving Mode

LCD Brightness: Level 1   HDD Off: Idle after 3 minutes
CPU Speed: Level 0   Sleep: Idle after 5 minutes
LCD Off: Idle after 5 minutes   Hibernate: Idle after 10 minutes

Normal Mode

LCD Brightness: Level 5   HDD Off: Idle after 30 minutes

CPU Speed: Maximum level Sleep: Idle after 1 hour
LCD Off: Idle after 15 minutes Hibernate: Idle after 2 hours

High Performance Mode

LCD Brightness: Level 5 HDD Off: Never
CPU Speed: Maximum level Sleep: Never
LCD Off: Never Hibernate: Never

DVD Play Mode

LCD Brightness: Level 5　　　　　HDD Off: Idle after 4 hours
CPU Speed: Maximum level　　　 Sleep: Idle after 1 hour
LCD Off: Idle 4 hours　　　　　　 Hibernate: 2 hours

Dynamic Switch Mode

Battery life%		CPU Loading			
		High	Middle plus	Middle	Low
		50% up	30% up	4%up	<4%
level 5	90% up	High Performance mode	High Performance mode	High Performance mode	Normal mode
level 4	50% up	High Performance mode	High Performance mode	Normal mode	Normal mode
level 3	30% up	High Performance mode	Normal mode	Normal mode	Power Saving mode
level 2	15% up	Normal mode	Normal mode	Power Saving mode	Power Saving mode
level 1	6% up	Normal mode	Power Saving mode	Power Saving mode	Power Saving mode
level 0	less than 5%	Power Saving mode	Power Saving mode	Power Saving mode	Power Saving mode

NOTE....　　**The CPU load is automatically shown on the application display indicating the power saving mode.**

CPU Load :   14 %

Charging Time:

1 hour(s) and 32 min(s)
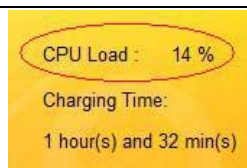
The TouchPad

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.

Touchpad Usage Illustrations

The typed is an electronic sensitive device with the light pressure of your fingertip to move the cursor around or select items displayed on the screen.

Two Finger Straight Motion Gesture

Place your two fingers on the surface of the Sensing Pad, side-by-side in a slightly separated manner.

Slide both fingers in continuous vertical manner to slide upward and downward navigation, or a continuous horizontal motion for sliding either rightward or leftward direction

To complete the gesture, remove both fingers from Finger Sensing pad..
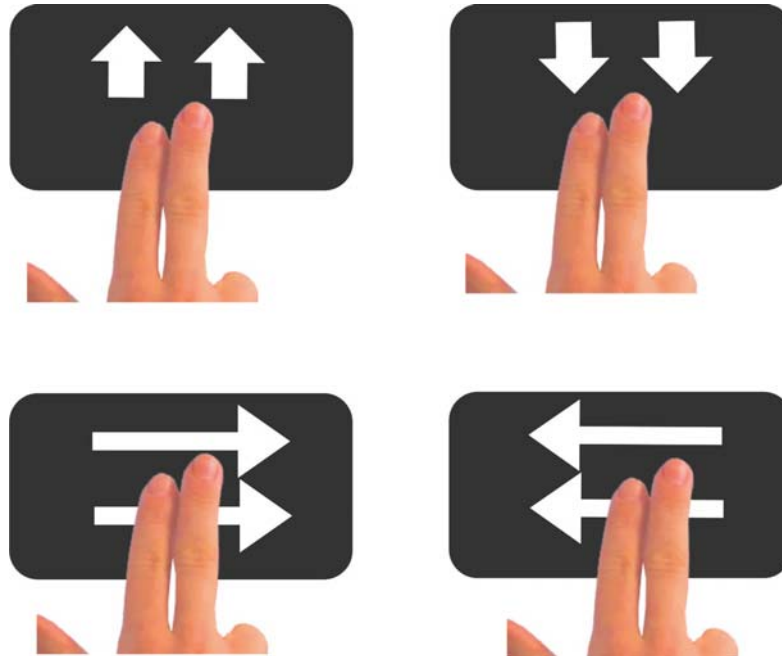
Two Fingers Zoom Gesture

Slide both fingers in a straight continuous motion (zoom out/zoom in) – closer together to perform this gesture.

Two Fingers Curve Gesture

Slide your index finger in an arching motion to clockwise or counterclockwise rotation.
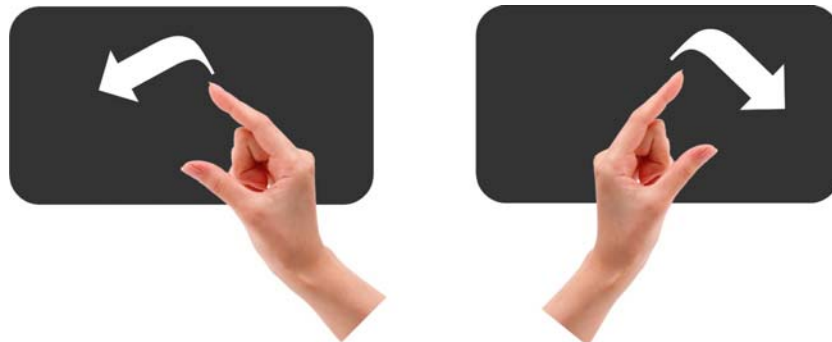
Connecting an External Tracking Devices

The system will only enable you to use one tracking device whether it is an internal or external tracking device.

Data Storage and Retrieval

Data storage and retrieval are two of the most fundamental tasks you will perform when working with your computer. The Notebook is equipped with a hard disk drive (HDD).

The HDD is removable allowing for easy upgrades.

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 in 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, 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 3-4 hours when the notebook is turned off and approximately 6-7 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 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 7 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 save your work.

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 **[F7]** key to increase the brightness or **[F8]** to decrease the brightness.

Using the Windows

Help Windows

For Windows 7 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.
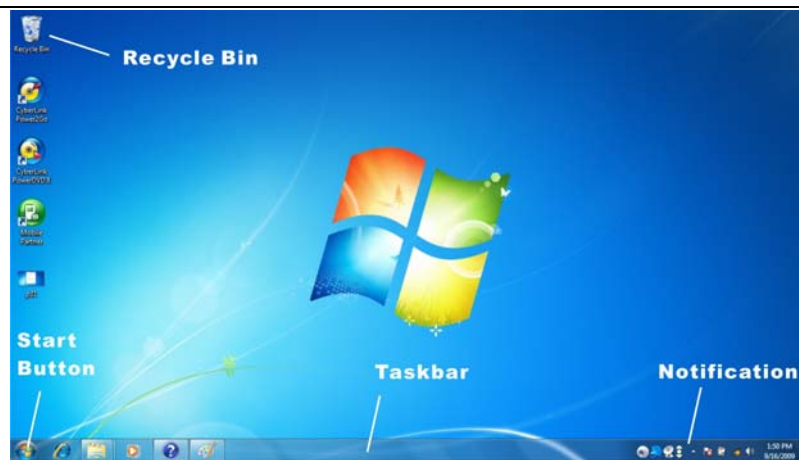
Recycle Bin

Used for storing deleted files in case you want to recover and save it in your system. The files will only be deleted from the Recycle Bin permanently only if you empty it by right clicking your mouse and select the "Empty Recycle Bin".

Start Button

Allows easy access to all Windows programs.

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.

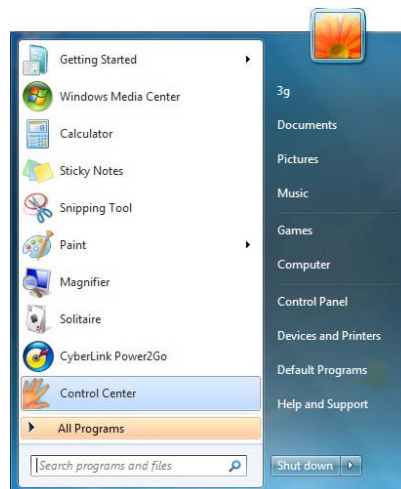To add or remove toolbars from the taskbar: right click an empty spot on the taskbar, select **Toolbars ➔ choose the toolbar you want to add**.

Notification

The icons that appear here are for quick access to some programs and computer functions that you frequently used. To prevent Windows 7 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**.
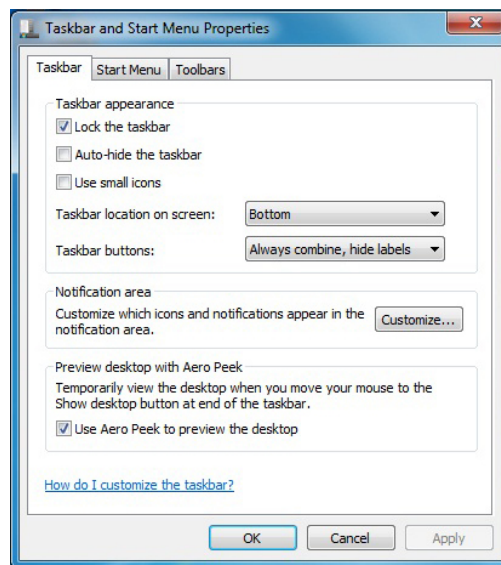
Control Panel

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**.
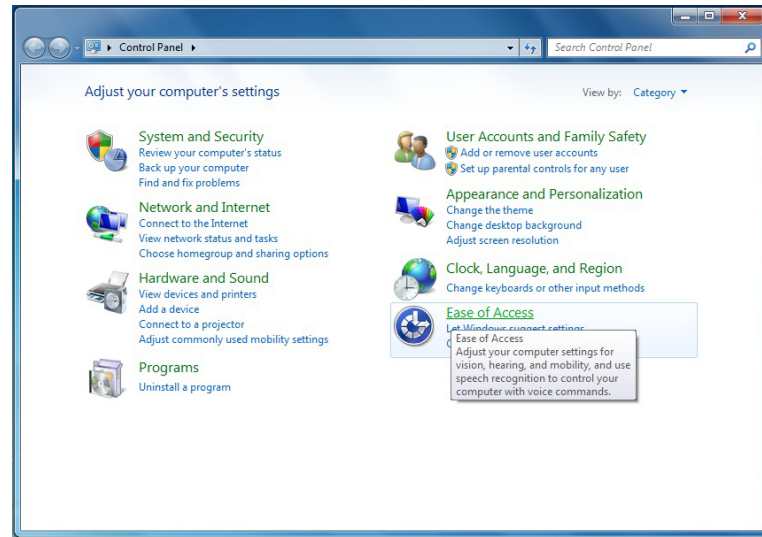
Chapter

5

Internet Connection

Using a modem for Connection to Internet (optional)
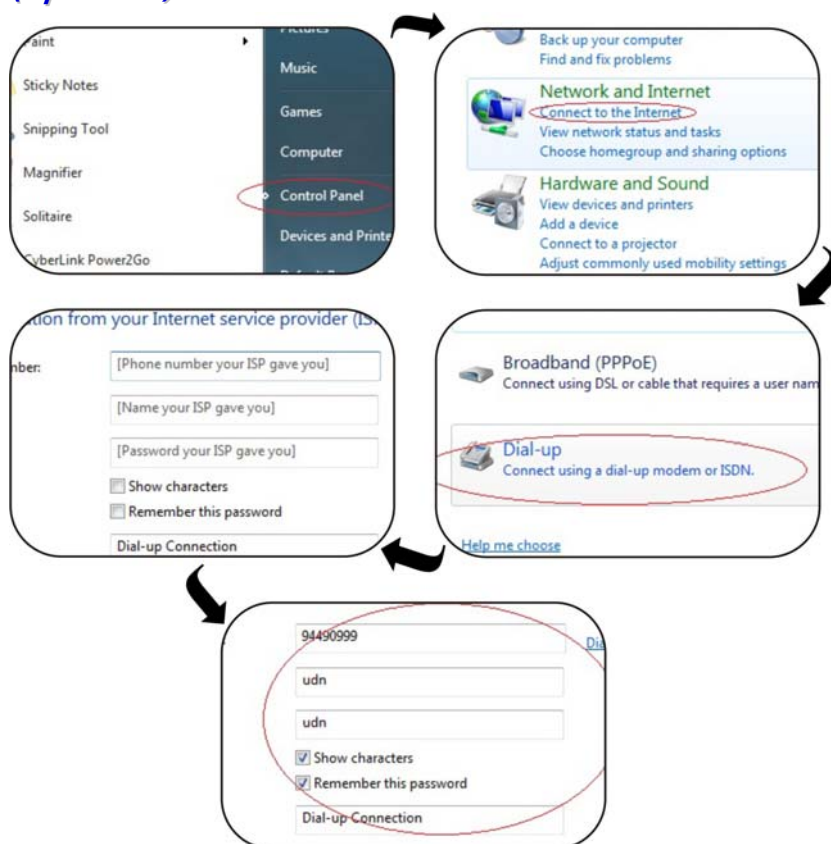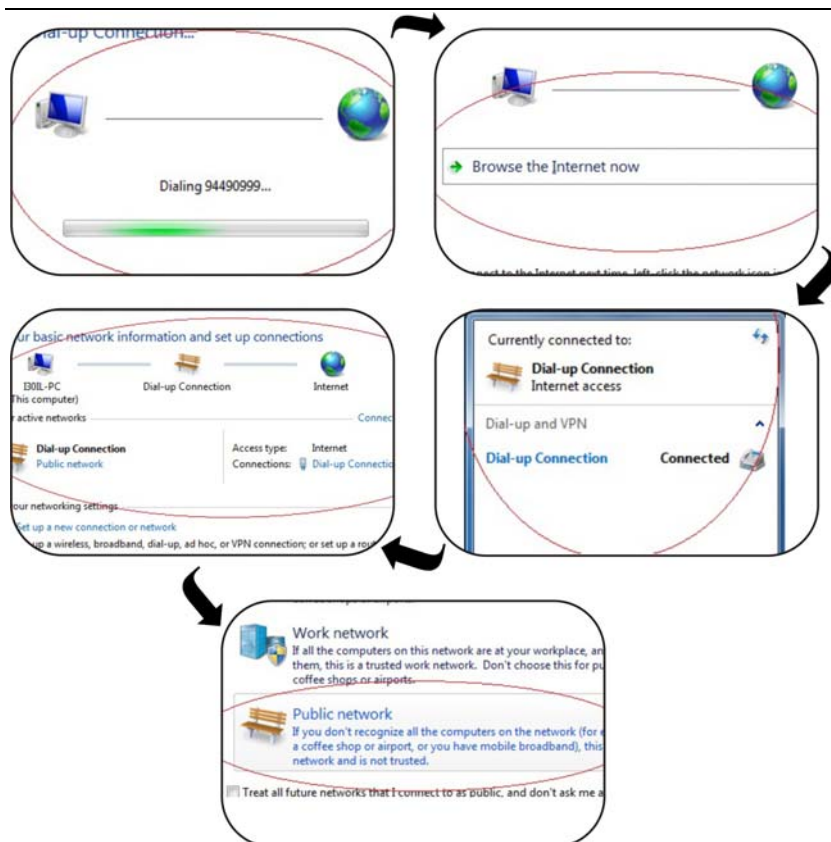
NOTE.... For more detail on the Network key, please refer to your local ISP provider and follow the procedures described in the "ISP Installation Guide" to proceed with the installation.

Using Wireless LAN Network for Connection to Internet
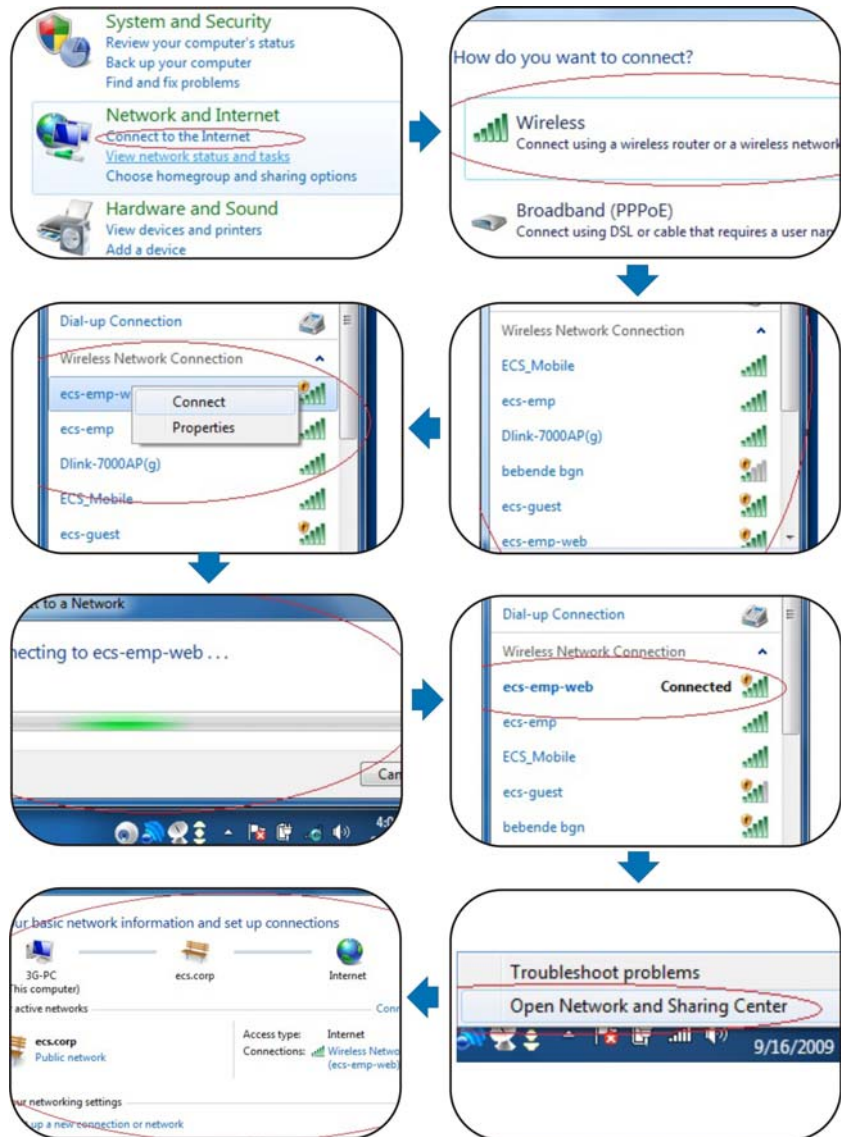
Chapter

6

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 manufacturers 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 DEL key quickly to activate the BIOS Setup Utility.

NOTE.... **You may need to press DEL 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.
Enter	Go to Sub Screen	Shows the Sub Menu
F1	General Help	Shows the Help Screen
F9	Default	Set as default
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.
⇨	Select a menu	Selects the right item
⇦	Select a menu	Selects the left item
-	Lower value	Selects the lower value within a field.
+	Higher value	Selects the higher 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

```
                Phoenix SecureCore(tm) Setup Utility
   Info      Main      Advanced      Security      Boot      Exit


   BIOS Information:
   BIOS Version:        0.01.14
   KBC Version:         0.13

   Processor:
   CPU Type             Intel® Core(TM) i3 CPU        M370 @ 2.40GHz
   CPU Speed            2400MHz







   F1 Help    ↕ Select Item   -/+          Change Values        F9 Setup Defaults
   Esc Exit   ⬌ Select Menu  Press Enter   Select ▶ Sub-Menu    F10 Save and Exit
```

Main Setup

```
                Phoenix SecureCore(tm) Setup Utility
   Info      Main      Advanced      Security      Boot      Exit
                                                        Item Specific Help

   System Time:       [14:46:08]            <Tab>,<Shift-Tab>,or
   System Date:       [08/09/2010]          or<Enter>selects field.

   SATA Mode          [AHCI]
 ▶ SATA Port 1        [WDC WD3200BPVT-22ZEST0-(S1]
 ▶ SATA Port 2        [HL-DT-STDDVDRAM GT32N-(S2]
   System Memory:     640 KB
   Extended Memory:   2048MB







   F1 Help    ↕ Select Item   -/+          Change Values        F9 Setup Defaults
   Esc Exit   ⬌ Select Menu  Press Enter   Select ▶ Sub-Menu    F10 Save and Exit
```

Advanced

Phoenix SecureCore(tm) Setup Utility

| Info | Main | Advanced | Security | Boot | Exit |

Item Specific Help

Setup Warning
Setting items on this menu to incorrect
values may cause your system to malfunction.

No Execute Mode Mem Protection   [Enabled]

When enabled, if OS
supports the "No
Execute Page
Protection"
technology, the OS can
set memory pages as
not executable.

| F1 Help | ↑↓ Select Item | -/+ | Change Values | F9 Setup Defaults |
| Esc Exit | ←→ Select Menu | Press Enter | Select ▶ Sub-Menu | F10 Save and Exit |

Security

Phoenix SecureCore(tm) Setup Utility

| Info | Main | Advanced | Security | Boot | Exit |

Supervisor Password Is: Clear
User Password Is: Clear

Set Supervisor Password   [Enter]
Set User Password   [Enter]

Password on boot: [Enabled]

Item Specific Help

Supervisor Password
controls access to the
setup utility.

| F1 Help | ↑↓ Select Item | -/+ | Change Values | F9 Setup Defaults |
| Esc Exit | ←→ Select Menu | Press Enter | Select ▶ Sub-Menu | F10 Save and Exit |

Boot Setup

Phoenix SecureCore(tm) Setup Utility

Info	Main	Advanced	Security	Boot	Exit

Item Specific Help

LAN Remote Boot: [Disabled]

▶ Boot Device Priority

Select with LAN-Type is used for Boot.

| F1 Help | ⇅ Select Item | -/+ | Change Values | F9 Setup Defaults |
| Esc Exit | ⬅➡ Select Menu | Press Enter | Select ▶ Sub-Menu | F10 Save and Exit |

Exit Setup

Phoenix SecureCore(tm) Setup Utility

Info	Main	Advanced	Security	Boot	Exit

Item Specific Help

Exit Saving Changes
Exit Discarding Changes
Load Setup Defaults
Save Changes

Exit System Setup and save your changes to CMOS.

| F1 Help | ⇅ Select Item | -/+ | Change Values | F9 Setup Defaults |
| Esc Exit | ⬅➡ Select Menu | Press Enter | Select ▶ Sub-Menu | F10 Save and Exit |

Chapter

7

Switchable Graphics (Optional)

Switchable Graphics is a mobile graphics switching process optimizing your system for either high-powered graphics processing or low power consumption.

It is designed to dynamically switch the graphics operation between Intel® integrated graphics and ATI Mobility Radeon™ discrete graphics (depending on the power source and user preferences) without rebooting the notebook.

- When the notebook is working on battery mode the discrete graphics processor dynamically shuts off, resulting in low idle power, long battery life and improved energy efficiency.
- Resume maximum performance by simply plugging in the notebook to a power socket and watch your discrete graphics seamlessly kick in.

The system monitors the power source and switches GPU based on power source and user preferences. It's a simplified process delivering unsurpassed flexibility.

Extreme Power Savings for Long Battery Life

As compared to discrete graphics, an integrated GPU requires less energy to operate, yielding better power efficiency and improved battery life. This makes it better suited for situations where your notebook is running on battery - for example when traveling on the road.

- Unplug your adapter and the system operates on battery mode.
- In Start menu, desktop right-click where set of generic commands that the end-user can access to configure the system.
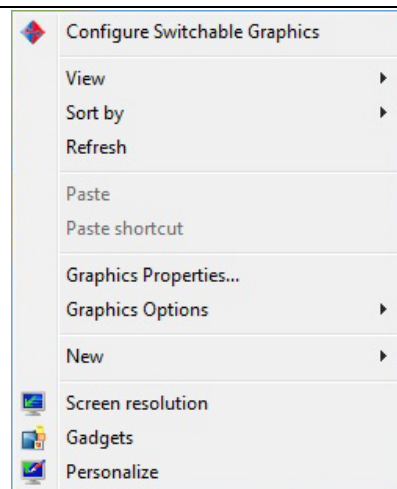
■ Click on the "Configure Switchable Graphics" item.

■ Click on the tab indicating "Automatically select power-saving GPU when on battery"
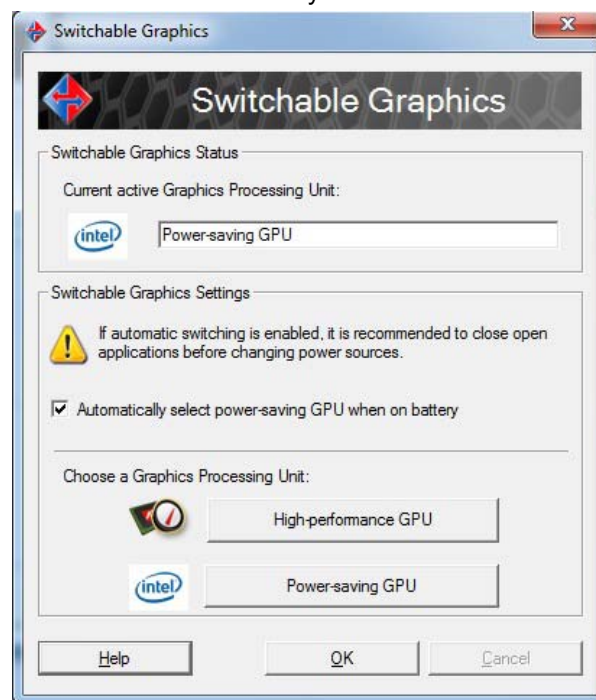
Maximum Performance

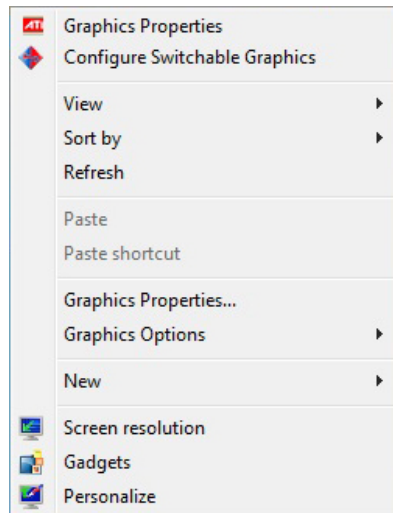In this process, your notebook is plugged in to the power socket where ATI Switchable Graphics enables the ATI Mobility Radeon™ graphics processor for astonishing performance.

This will deliver high performance and incredible 3D graphics that allows you to enjoy superior HD gaming, Blu-ray movies and other HD content in full HD-1080p on your HD-capable monitor. Whether you use it at home, in the office, or while on the move, ATI Switchable Graphics helps you meet your every need

- ■ Unplug your adapter and the system operates on battery mode.
- ■ From the windows display, right-click your mouse button where set of generic commands for the end-user can access to configure the system. A capture of the desktop right-click menu is shown here:

Graphics Properties	
Configure Switchable Graphics	
View	▶
Sort by	▶
Refresh	
Paste	
Paste shortcut	
Graphics Properties...	
Graphics Options	▶
New	▶
Screen resolution	
Gadgets	
Personalize	

- ■ Click on the "**Graphics Properties**" item
- ■ The ATI Mobility Radeon™ graphics display window is now shown on your screen display.
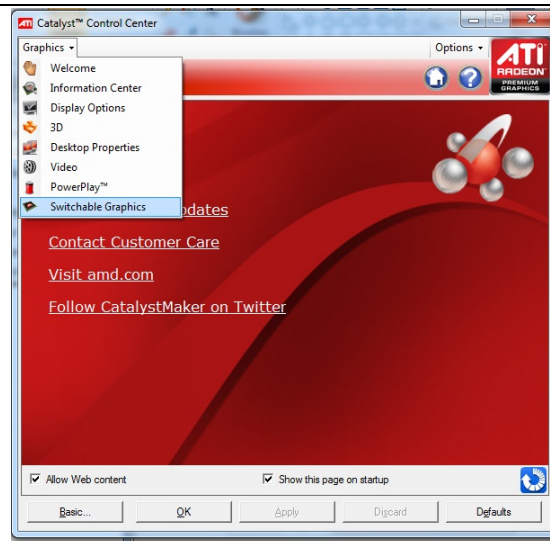
■ Click on the "**Configure Switchable Graphics**" item.

■ Click on the tab indicating "**Automatically select power-saving GPU when on battery**"
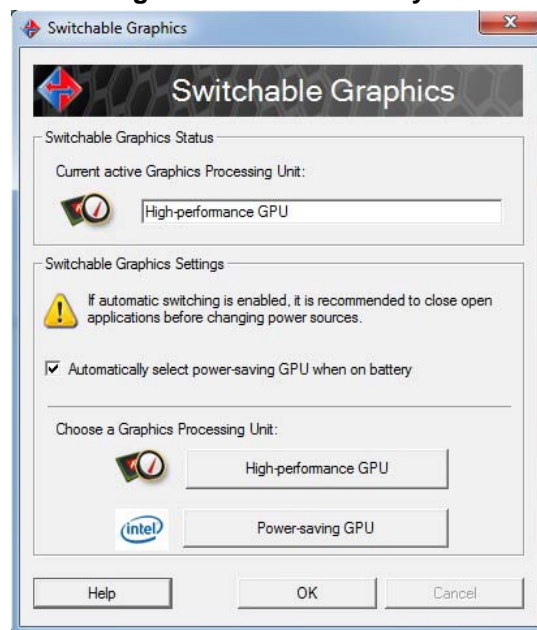
Chapter

8

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 blue 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 cameras, 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.

Appendix

A

Specification

O.S.

➢ Supports Windows 7 Home Premium

CPU

➢ Support Intel Arrandale MCP Dual core, 32nm, 3MB L3 Cache, 1066MHz Processor

➢ The Integrated graphics controller contains a refresh of the 5th generation graphics core

Memory

➢ DDRIII 1066/1333 MHz support (1333MHz downgrade to 1066 MHz)

➢ RAM socket * 2

➢ System DDRIII up to 4 GB total depends on module availability

Core Logic

➢ Intel Calpella Arrandale + Ibex Peak (HM55)

VGA (Optional)

➢ AMD Robson XT

▪ TDP 12-15 W
▪ DX11 and OpenGL 3.1 and OpenCL 1.0 support
▪ MPEG1/2/4 decode and encode acceleration
▪ LVDS/VGA/HDMI out support.
▪ PCI-Express 2.0 x16 PCI Express bus interface
▪ Supports x1, x2, x4, x8, x16 lane width.

- DDR3 up to 1G VRAM support.
- Static and dynamic power management support (APM as well as ACPI) with full VESA DPM and Energy Star compliance
- Support Switchable Graphics technology

Audio Codec

➢ Realtek ALC269Q-GR

Card reader (6 in 1)

➢ Support SD / SDXC / SDHC / MS / MMC / MS Pro Memory Card

➢ USB2.0 interface

LAN Controller

➢ Supports 10/100/1,000Mb/Sec

➢ PCI-E interface

Wireless LAN

➢ PCI-E interface (WLAN module or WLAN/BT Combo module)

➢ REALTEK RTL8188CE

➢ Half-Card size

➢ IEEE 802.11 B/G/N

➢ 1x1 antenna support only

Camera CCD (Optional)

➢ Support 0.3M/1.3MHD/1.3M high definition 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" (16:9) HD 1366 x 768 LED-Back Light Unit

> ➢ Support 16:9 5.2mm thickness LED panel

Battery Pack

> ➢ 4 cell, 2200mAh
>> ■ Celxpert O40-4S2200-C1L3
>> ■ SIMPLO O40-4S2200-S1B1
>> ■ Gallopwire O40-4S2200-G1L3
> ➢ 4 cell, 2600mAh
>> ■ SIMPLO O40-4S2600-S1S6
> ➢ 6 cell, 4400mAh
>> ■ Celxpert O40-3S4400-C1L3
>> ■ SIMPLO O40-3S4400-S1B1
>> ■ Gallopwire O40-3S4400-G1L3
> ➢ 6 cell, 5200mAh
>> ■ SIMPLO O40-3S5200-S1S6

AC-Adapter

> ➢ Automatics Voltage adjustment between 100 and 240VAC, 50/60Hz, LV5-19V / LV4-20V, 65 Watts., 2 pin / 3pin
>> ■ Delta Electronic, Inc.
>> ADP-65JH AB(65W, 2pin)
>> ADP-65JH BB(65W, 3pin)
>> ■ HUNTKEY ELECTRONIC CO., LTD
>> HKA06519034-8C(65W, 2PIN)

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 2MB flash ROM

Power Management (default: Silent mode)

> ➢ "Smart Power II" Power Management

Physical Outline

➢ Dimension: 350mm x 240mm x 20.6 ~ 36.5 (w/o rubber foot)
➢ Weight
  ■ 1.9 Kg w/ 4 cell battery
  ■ 2.1KG w/ 6 cell battery

EMI

➢ CE

RF

➢ CE, R&TTE report/document

Safety

➢ CB, CCC