
Notebook



User's Manual



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

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

There is no internal power supply.

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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 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.

-
- 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. 5°C to 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 100-240 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 .75mm² 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 T30II*/T30IL*(*=0~9) IS DESIGNED TO USE WITH THE FOLLOWING AC ADAPTER MODEL ONLY

Manufacture: Delta Electronics, Inc.

Model: ADP-65HB AD (65W) (The adapter can only be connected through the port replicator)

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 includes 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.

- 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 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.
 - 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 5°C → 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 100-240V 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 m² 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 T30II*/T30IL*(*=0~9) muss ein AC-Adapter folgenden Modells verwendet werden

Hersteller: Delta Electronics, Inc

Modell: ADP-65HB AD (65W) (Der Adapter kann nur mit dem Ausgangsvervielfältiger verbunden werden.)

- 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 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.

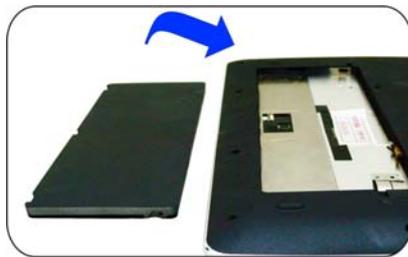
There are some things you can tolerate that the computer can't – things like static electricity, dust, water, steam and oil. In case you decide to pull over for roadside computing, try to choose a clean, comfortable work area for your system.

Chapter

2

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.
-

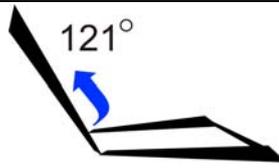
Front View

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

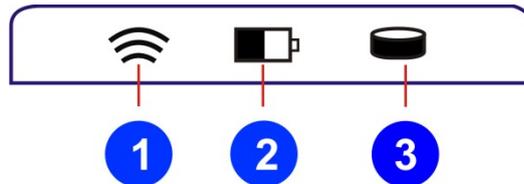


1. Camera (Optional)
 2. LCD Display
-

 **WARNING....** This LCD panel can only support up to a maximum opening of 121 degree, please do not push it forcibly.



3. LED Status Indicator



LED Graphic Symbol	Indication
1. 	Solid white indicates the WLAN is active.
2. 	Battery status Charging – Orange light flashing Full – Green Low – Red light flashing
3. 	Solid white indicates the hard drive and/or optical drive is being accessed.

4. Light Sensor

NOTE.... The system provides a Light-to-voltage converter module which is a sensor directly proportional to the light intensity of your surrounding working environment. It will affect the backlight intensity (bright/dark) of your screen display.

This mode will then function once the OSD (On Screen Display) application is installed in your system as described in the preceding chapter.

5. Keyboard

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

6. Microphone

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.

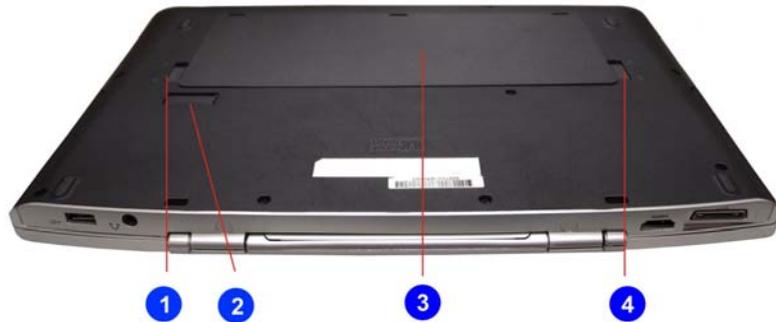
- 8. Touchpad**
- 9. Touchpad Buttons**
- 10. Fingerprint**

Rear View



- 1.**  DC In
- 2.**  HDMI Port
- 3.**  Stereo Headphone Jack
- 4.**  USB 2.0 Port

Bottom View



1. Battery latch
2. Second Battery Connector (Optional)

NOTE.... After using, be sure to close the 2ND Battery connector door. When not using the 2nd battery, please make sure the door is always close.



3. Battery Compartment
4. Battery Lock

Port Replicator



This system provides you with a port replicator that gives you a convenient way to attach external devices such as a monitor, a full-size keyboard, or an AC power adapter.

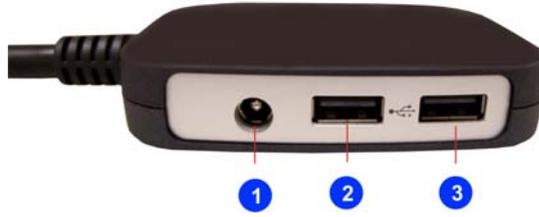
The port replicator lets you make all of those connections in one step. The port replicator also gives you access to additional ports not found on the notebook.



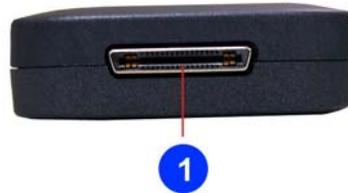
1.  Ethernet / LAN Port

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

2.  CRT Port



- 1. == 2nd DC In (65W adapter) (Optional)
- 2. == USB 2.0 Port
- 3. == USB 2.0 Port



- 1. == Main DC In

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 **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.

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.

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 + F2	Changes Display Mode: LCD only, CRT + LCD, CRT only, HDMI + LCD, HDMI only.
Fn + F6	Increases the brightness level.
Fn + F7	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 + LCD
- * CRT only
- * HDMI + LCD

* HDMI only

You can switch between these display configurations by pressing the key combination [Fn] + [F2].

The Notebook's Hot Key Controls

Action	System Control
Fn + F1	Enters Suspend Mode.
Fn + F2	Changes Display Mode: LCD only, CRT + LCD, CRT only, HDMI + LCD, HDMI only.
Fn + F3	Mute/Unmute Audio/ PC beep to Output
Fn + F4	Increases the speaker volume.
Fn + F5	Decreases the speaker volume.
Fn + F6	Increases the brightness level.
Fn + F7	Decreases the brightness level.
Fn + F8	Decrease keyboard backlight
Fn + F9	Increase keyboard backlight
Fn + F10	Enable/Disable the Bluetooth application
Fn + F11	Enable/Disable the WLAN application
Fn + F12	Enable/Disable the 3G application
Fn + Prt Sc	Enable/Disable the Webcam application

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.

Other 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

WebCam On/Off Fn + 	 
Caps Locks	 
Num Locks	 
Scroll Locks	 

WLAN On/Off Fn +  F11	 
Bluetooth On/Off Fn +  F10	 
HSPA On/Off Fn +  F12	 
Brightness Fn +  F6 /  F7	 
Mute On/Off Fn +  F3	 
Volume Fn +  F4 /  F5	 
Auto Brightness On/Off	 

NOTE.... This mode clearly defines the Light Sensor application as described in previous chapter to automatically adjust the backlight environment for your LCD brightness. Once you execute the hotkey combination for brightness control (Fn+F6/Fn+F7) will automatically disable this auto brightness mode.

Auto KB Brightness On/Off	 
---------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------

OSD-Bar Icon

Caps Locks On	
Num Locks On	
Scroll Locks On	
WLAN On	
Web Cam On	
BlueTooth On	
Mobile Broadband On	

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

your screen.



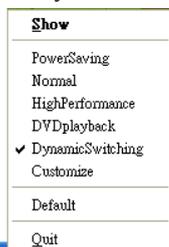
Horizontally
Top or Bottom



Vertically - Right or Left

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.

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 off HDMI

Power Saving Mode



LCD Brightness: Level 1
CPU Speed: Level 0
LCD Off: Idle after 5 minutes

HDD Off: Idle after 3 minutes
Sleep: Idle after 5 minutes
Hibernate: Idle after 10 minutes

Normal Mode



LCD Brightness: Level 5
CPU Speed: Maximum level
LCD Off: Idle after 15 minutes

HDD Off: Idle after 30 minutes
Sleep: Idle after 1 hour
Hibernate: Idle after 2 hours

High Performance Mode



LCD Brightness: Level 5
CPU Speed: Maximum level
LCD Off: Never

HDD Off: Never
Sleep: Never
Hibernate: Never

DVD Play Mode



LCD Brightness: Level 5
CPU Speed: Maximum level
LCD Off: Idle 4 hours

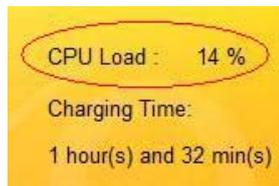
HDD Off: Idle after 4 hours
Sleep: Idle after 1 hour
Hibernate: Idle after 1 hour

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.



The TouchPad



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, 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.

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.

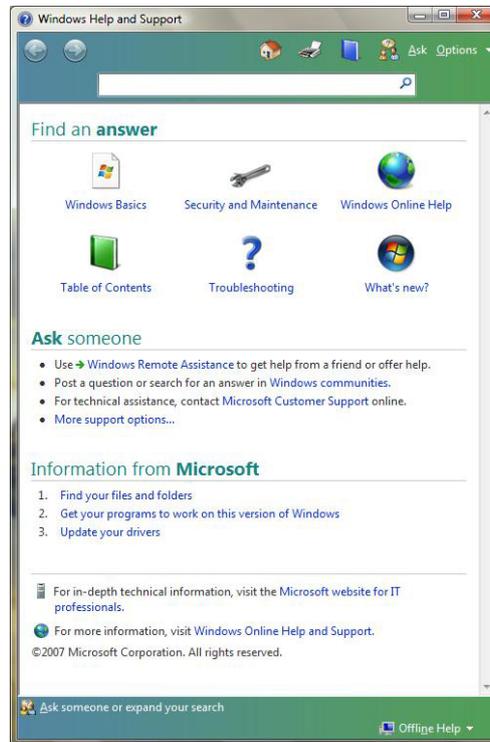
To reset the system, or “reboot,” press the **[Ctrl]+[Alt]+[Delete]** keys simultaneously. This is known as “warm boot.” This key combination acts as “software” reset switch when you encounter hardware or software problems, which lock up the notebook.

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.

Using the Windows

Help Windows

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.



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 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**.



Chapter

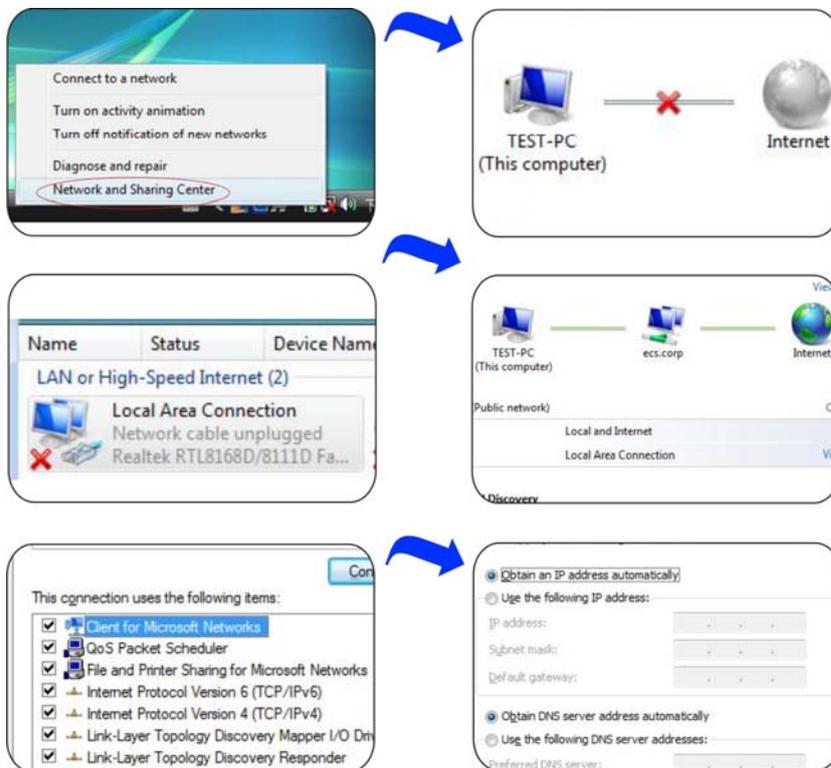
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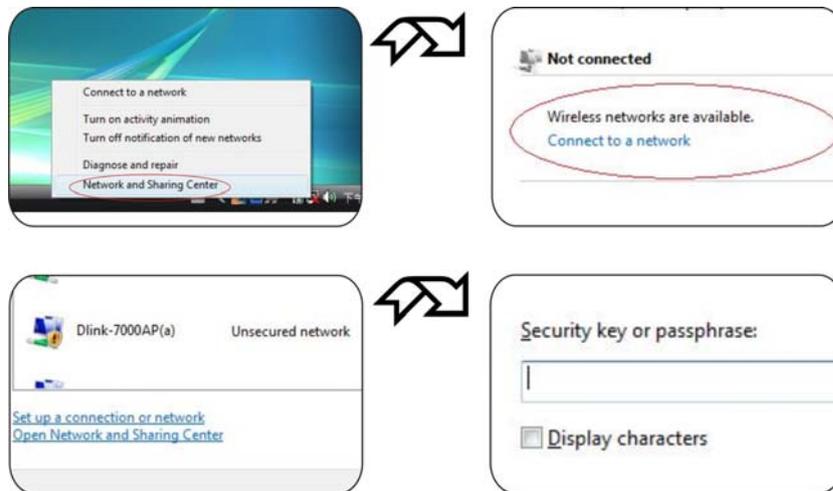
Internet Connection

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.



Using Wireless LAN Network for Connection to Internet



Bluetooth Connection

Bluetooth is a developing, world wide, open, short-range radio specification focused on communication between the Internet and Net devices, plus it defines communication protocols between devices and computers.

It connect wirelessly to your world: In home, at work, in motion and at play.

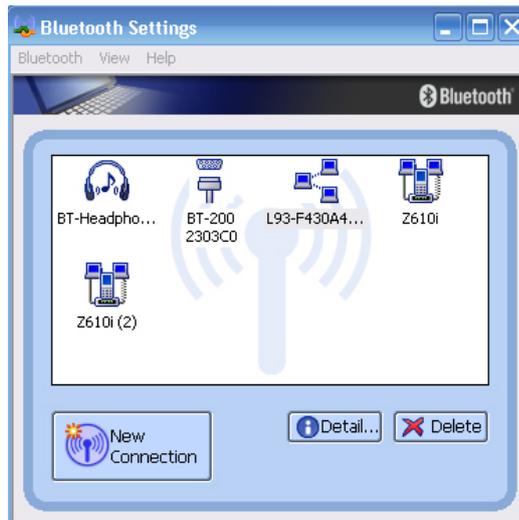
Access the internet or your e-mail account from anywhere, anytime.



Press on the Bluetooth icon to connect other devices that have this application.



This will be the display that will appear on your screen.
If the system detects any other devices, it will be shown as illustrated in the Bluetooth setting window:



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 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.

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

Phoenix SecureCore (tm) Setup Utility						
Info	Main	Advance	Security	TPM State	Power	Boot Exit
BIOS Information: BIOS Version: 0.10.04OL EC Version: 0.10.03 Processor Intel (R) Core (TM)2 Duo CPU L9400 @ 1.86GHz CPU Type Intel Centrino ® + Core (TM) Processor CPU Temperature: 53C						
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.

Phoenix SecureCore (tm) Setup Utility			
Info	Main	Advance	Security TPM State Power Boot Exit
			Item Specific Help
System Time:	[17:39:07]	<Tab>, <Shift-Tab>, or <Enter> selects field.	
System Date:	[03/24/2009]		
▶ SATA Port 1	[SAMSUNG MMCQE28G8MUP-0VA-]		
▶ SATA Port 2	[None]		
▶ SATA Port 3	[None]		
▶ SATA Port 4	[None]		
System Memory:	628 KB		
Extended Memory:	3072 MB		
F1 Help	↑↓ Select Item	-/+ Change Values	F9 Setup Defaults
Esc Exit	←→ Select Menu	Enter Select ▶ Sub-Menu	F10 Save and Exit

Phoenix SecureCore (tm) Setup Utility			
Main			
SATA Port 1	[SAMSUNG MMCQE28G8MUP-0VA-(S)]	Item Specific Help	
Maximum Capacity:	128GB SATA 1	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

Phoenix SecureCore (tm) Setup Utility			
Main			
SATA Port 2	[None]	Item Specific Help	
Transfer Mode:	[Standard]	Information	
Ultra DMA Mode:	[Disabled]		
F1 Help	↑↓ Select Item	-/+ Change Values	F9 Setup Defaults
Esc Exit	←→ Select Menu	Enter Select ▶ Sub-Menu	F10 Save and Exit

Phoenix SecureCore (tm) Setup Utility			
Main			
SATA Port 3	[None]	Item Specific Help	
Transfer Mode:	[Standard]	Information	
Ultra DMA Mode:	[Disabled]		
F1 Help	↑↓ Select Item	-/+ Change Values	F9 Setup Defaults
Esc Exit	←→ Select Menu	Enter Select ▶ Sub-Menu	F10 Save and Exit

Phoenix SecureCore (tm) Setup Utility					
Main					
SATA Port 4		[None]	Item Specific Help		
Transfer Mode:		[Standard]	Information		
Ultra DMA Mode:		[Disabled]			
F1 Help	↑↓	Select Item	-/+	Change Values	F9 Setup Defaults
Esc Exit	←→	Select Menu	Enter	Select ▶ Sub-Menu	F10 Save and Exit

Advanced Setup

Phoenix SecureCore (tm) Setup Utility					
Info	Main	Advance	Security	TPM State	Power Boot Exit
Execute Disable Bit:		[Enabled]	Item Specific Help		
Ambient Light Sensor:		[Enabled]	This feature activates a CPU support for the No Execution Memory Protection that is available in some O/S.		
Accelerometer:		[Enabled]			
F1 Help	↑↓	Select Item	-/+	Change Values	F9 Setup Defaults
Esc Exit	←→	Select Menu	Enter	Select ▶ Sub-Menu	F10 Save and Exit

Security

Phoenix SecureCore (tm) Setup Utility						
Info	Main	Advance	Security	TPM State	Power	Boot Exit
Supervisor Password Is:			Not Installed		Item Specific Help	
User Password Is:			Not Installed			
Set Supervisor Password			[Enter]		Supervisor Password controls access to the setup utility.	
Set User Password			[Enter]			
Password on boot:			[Enabled]			
TPM Support			[Enabled]			
F1 Help	↑↓	Select Item	-/+	Change Values	F9	Setup Defaults
Esc Exit	←→	Select Menu	Enter	Select ▶ Sub-Menu	F10	Save and Exit

TPM State

Phoenix SecureCore (tm) Setup Utility						
Info	Main	Advance	Security	TPM State	Power	Boot Exit
Current TPM State:			Disabled and Deactivated		Item Specific Help	
Change TPM State			[No Change]		Change TPM State	
					A disabled security chip prevents encrypted data from being used	
					A deactivated security chip prevents a user from taking ownership	
F1 Help	↑↓	Select Item	-/+	Change Values	F9	Setup Defaults
Esc Exit	←→	Select Menu	Enter	Select ▶ Sub-Menu	F10	Save and Exit

Power

Phoenix SecureCore (tm) Setup Utility							
Info	Main	Advance	Security	TPM State	Power	Boot	Exit
						Item Specific Help	
LCD panel power saving: [Enabled]						Select display power saving in battery mode.	
F1 Help	↑↓	Select Item	-/+	Change Values	F9	Setup Defaults	
Esc Exit	←→	Select Menu	Enter	Select ▶ Sub-Menu	F10	Save and Exit	

Boot Setup

Phoenix SecureCore (tm) Setup Utility							
Info	Main	Advance	Security	TPM State	Power	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	Enter	Select ▶ Sub-Menu	F10	Save and Exit	

Exit Setup

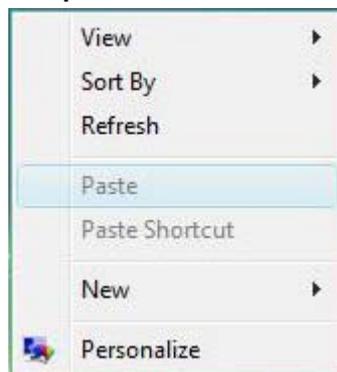
Phoenix SecureCore (tm) Setup Utility					
Info	Main	Advance	Security	TPM State	Power Boot Exit
Save Changes & Exit Discard Changes & Exit Get Default Values Load Previous Values				Item Specific Help	
				Exit System Setup and save your changes to CMOS.	
F1 Help	↑↓ Select Item	-/+ Change Values	F9 Setup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

Chapter

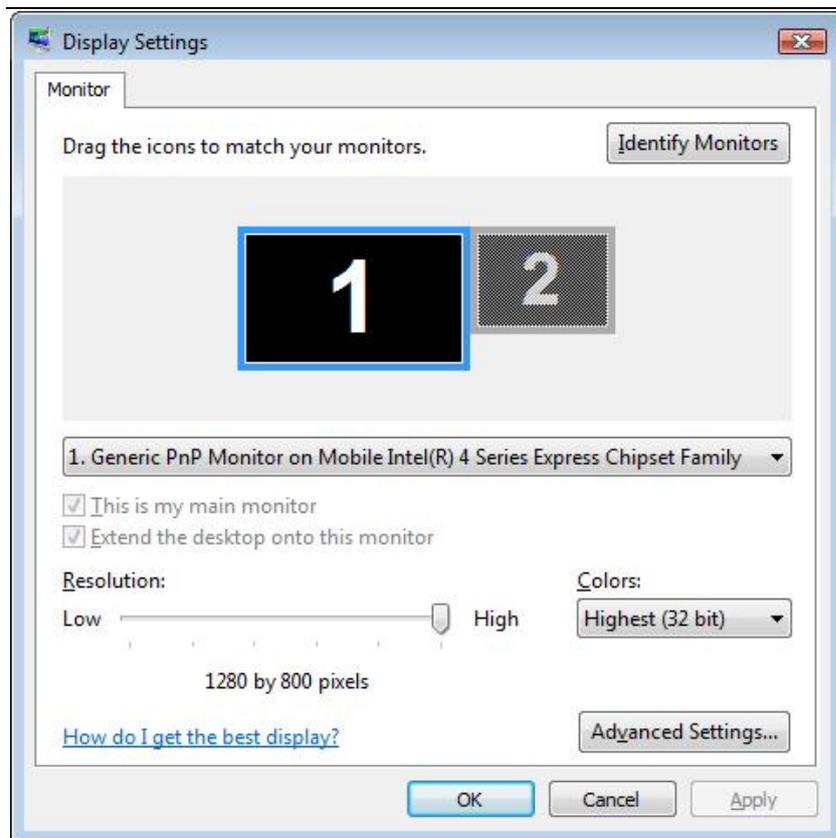
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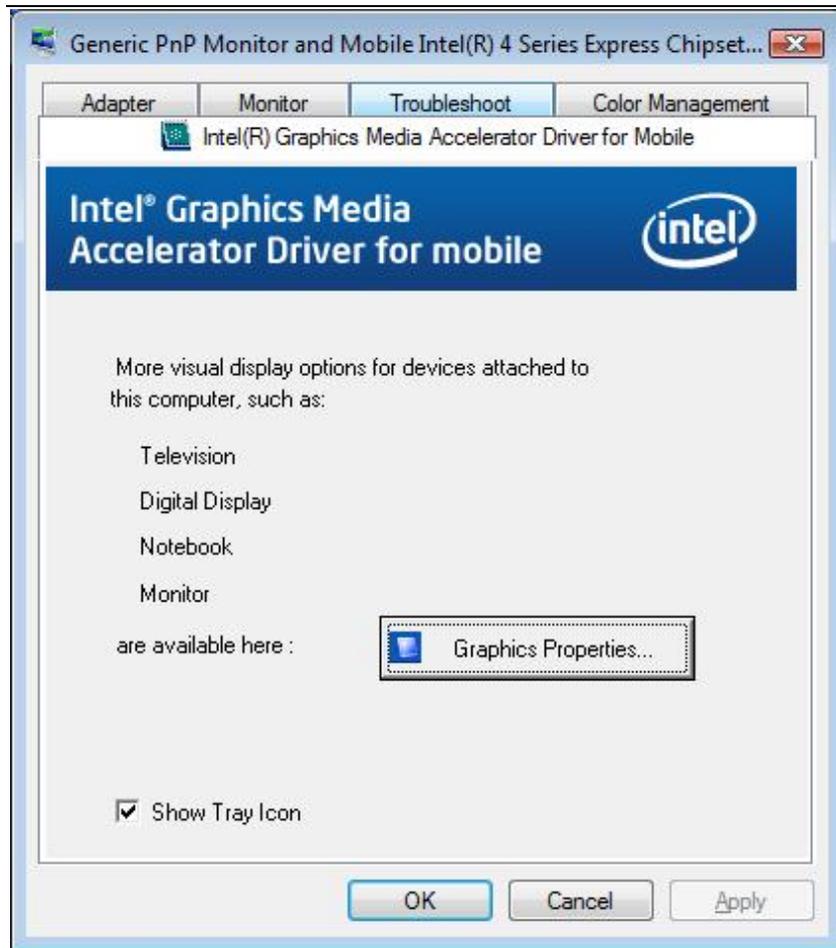
VGA Utilities

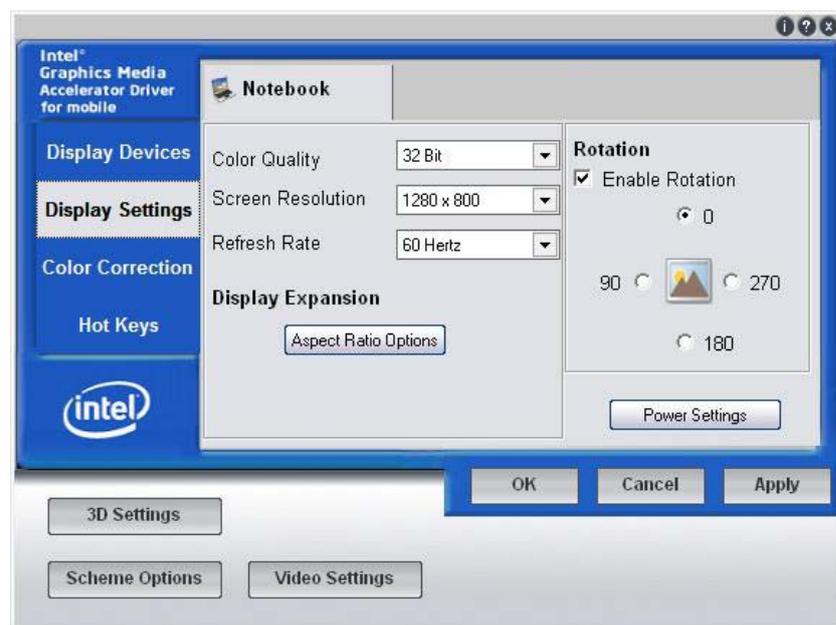
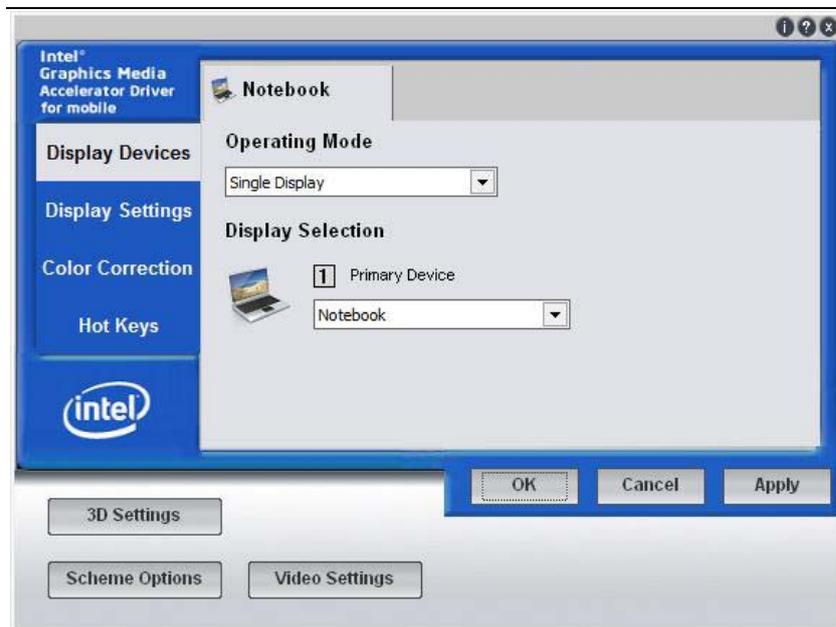
You can click the touchpad or mouse right button and select the “**Properties**” item.

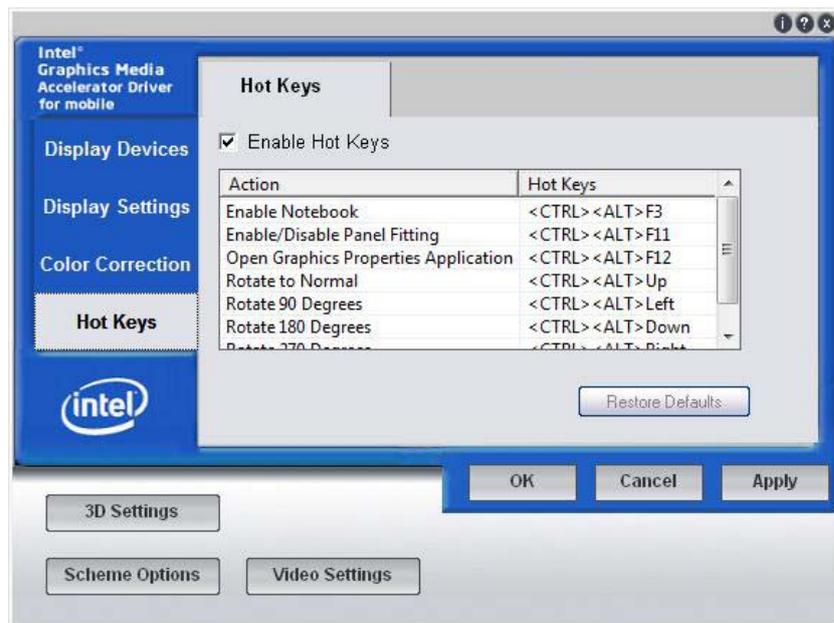
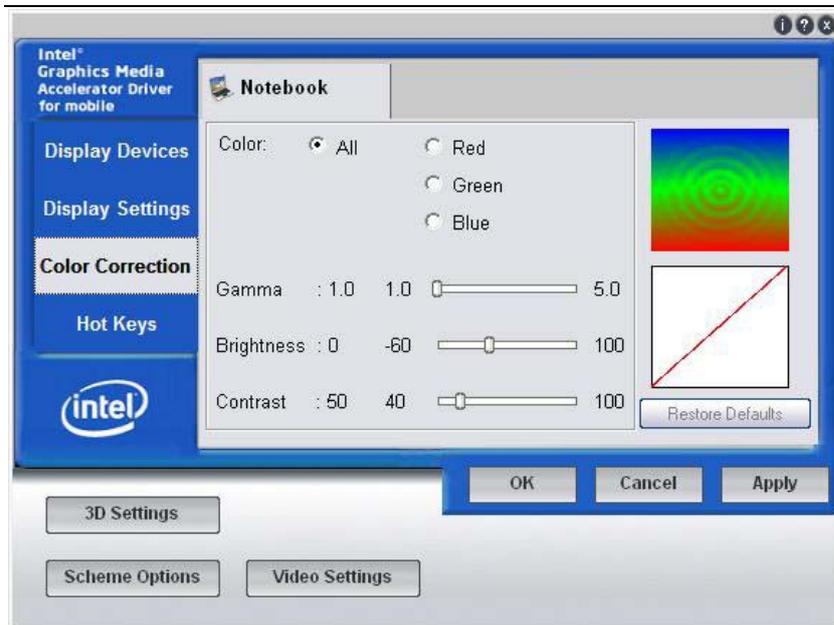


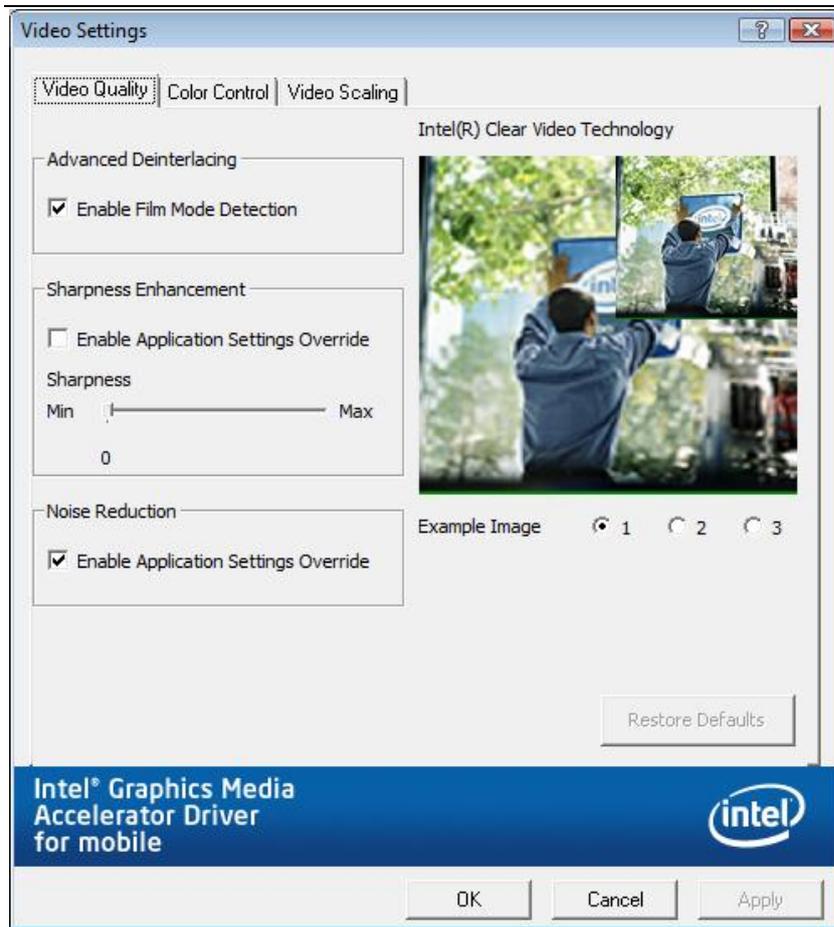
Select the “**Display Settings**” option to enter its window display. Click on the “**Advanced Settings**” tab to enter “**Generic PnP Monitor on Mobile Intel® 4 Series Express Chipset Family**” window display.

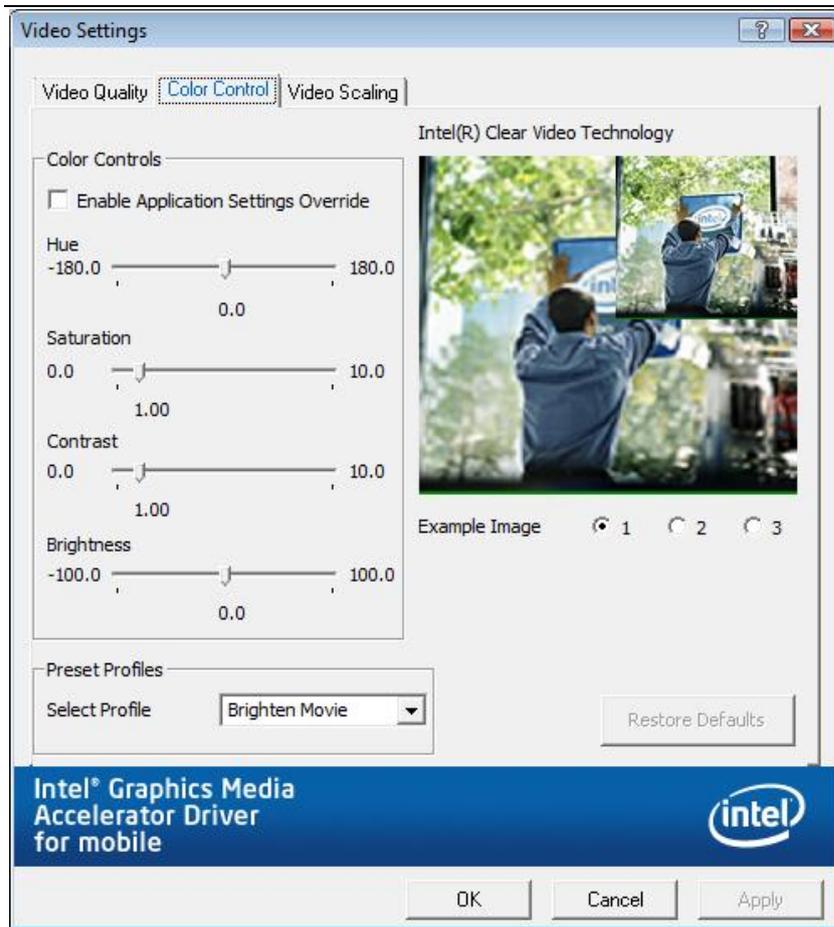


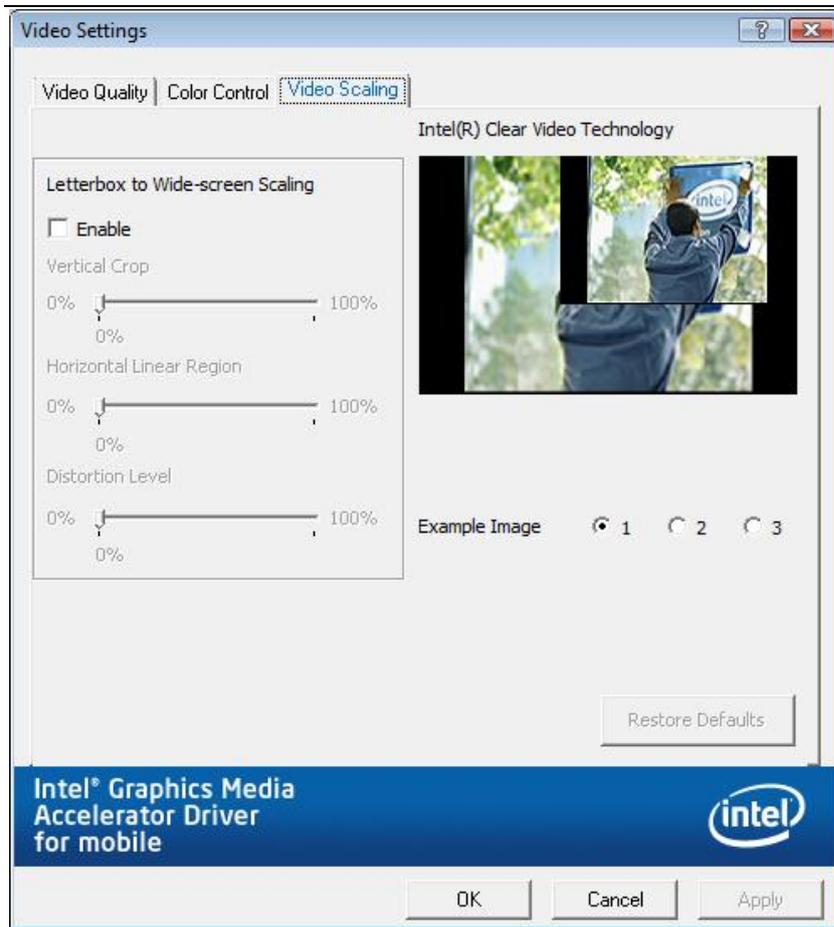












Chapter

8



3G Connection

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.

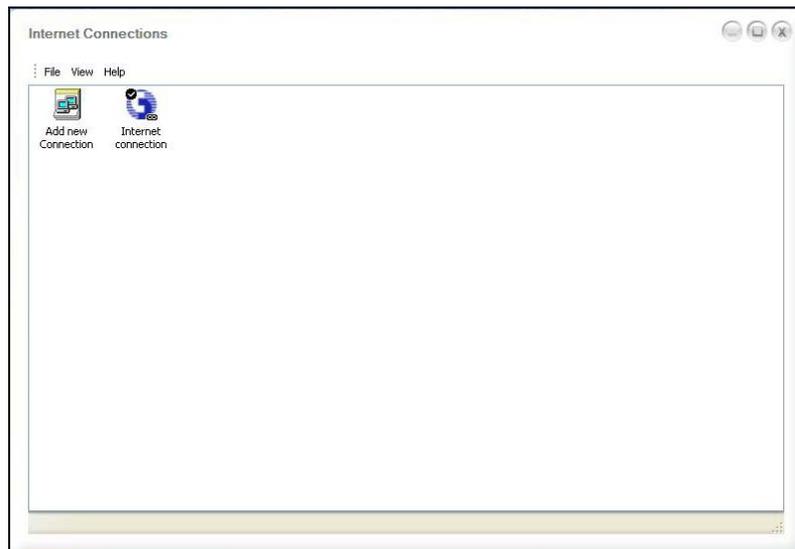


Another way for 3G connection is by clicking on the “**Menu**” button.



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

Finger printer Application

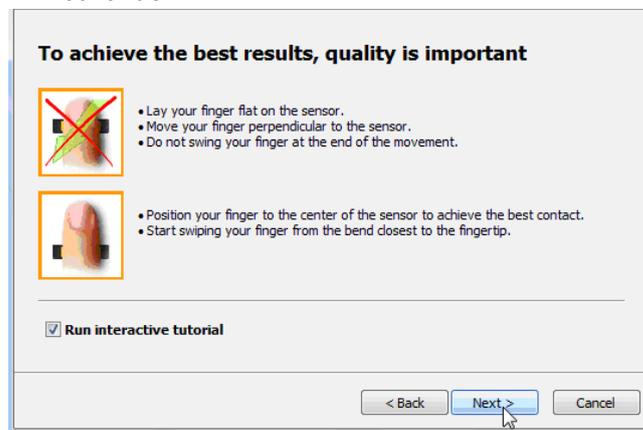
1. Click on the Fingerprint icon located at the lower right end of the screen.



2. It is recommended that you need to setup windows password for security reason. Click on the “Yes” button to continue.



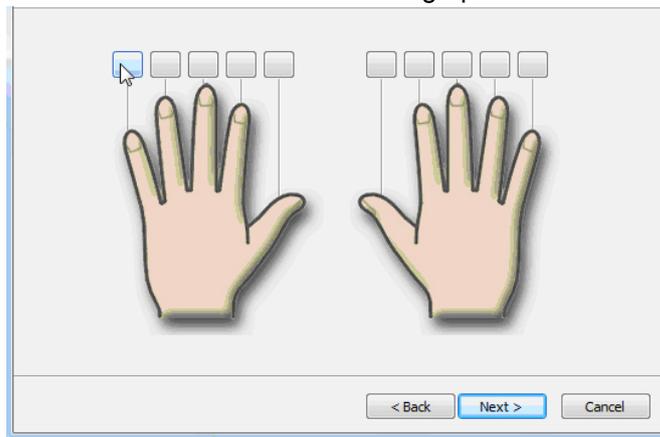
3. After you had set the “Username” and “Password”, click on the “OK” to continue.
4. After entering on your password, click the ”Next” button to continue.



NOTE....

Position your finger flat over the center of the sensor to achieve the best contact. Start swiping your finger smoothly and slowly from top to bottom with the fingertip press firmly as it pass the sensor. This would make the sensor read your fingertip clearly. Do not lift your finger as you swipe over the sensor..

5. You are given 3 times to practice in swiping on the fingerprinter. Click the "**Next**" button to continue.
6. Select on the above correct fingerprint.



7. Enter the correct fingerprint continuously for 5x to enter the correct fingerprint.
8. After you finish entering a fingerprint, click on the "**Next**" button to continue
9. Click on the "**Finish**" button to complete the application.

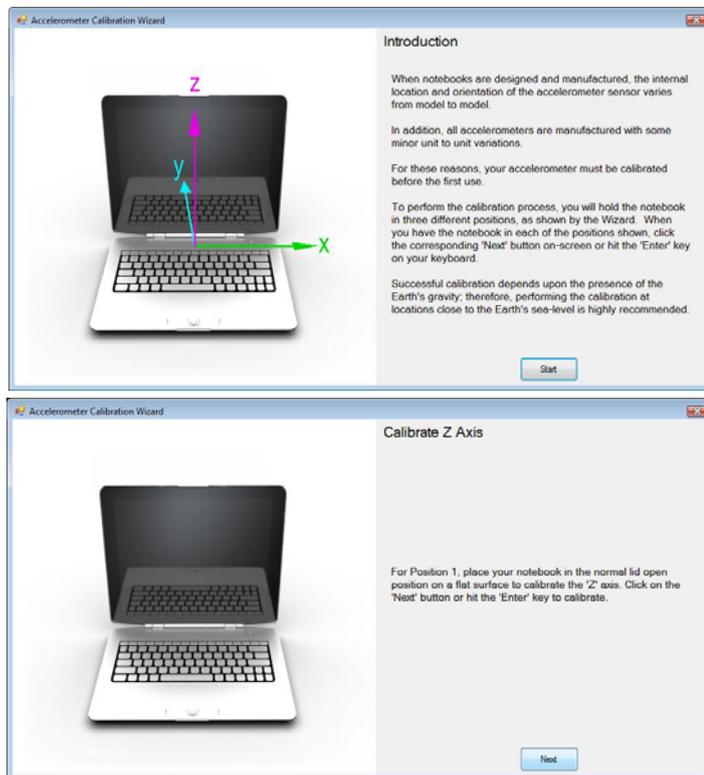
Chapter

10

G Sensor

The Always-Aware applications add new capabilities to the notebook by sensing notebook motion. The applications use an accelerometer within the notebook to detect motion.

The applications include: protection of the system hard drive from harmful shocks and some limited protection of the notebook from theft.



Accelerometer Calibration Wizard

Calibrate X Axis



For Position 2, hold your notebook in the position as shown by the picture to calibrate the 'X' axis. Click on the 'Next' button or hit the 'Enter' key to calibrate.

Next

Accelerometer Calibration Wizard

Calibrate Y Axis

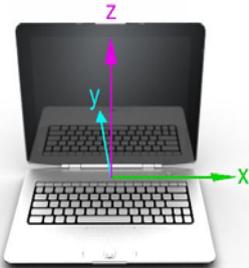


For Position 3, hold your notebook in the position as shown by the picture to calibrate the 'Y' axis. Click on the 'Next' button or hit the 'Enter' key to calibrate.

Next

Accelerometer Calibration Wizard

Calibration Completed!



Suggested Motion Insensitivity Filter (1%-20%):

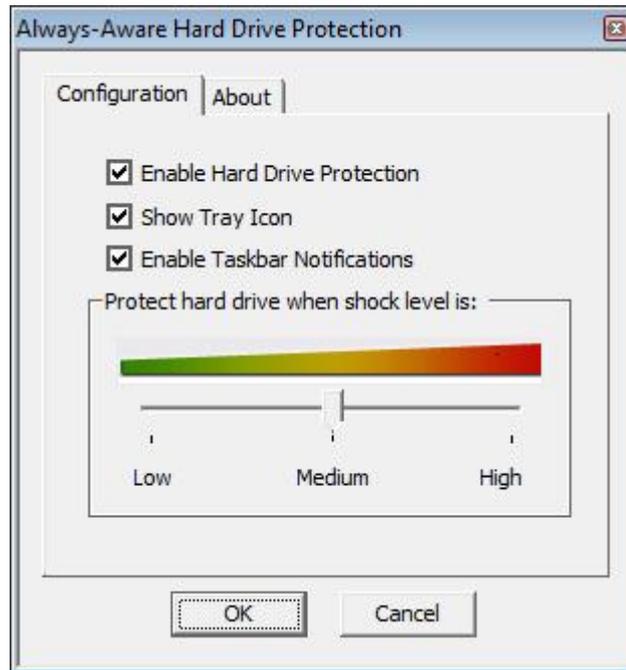
Please click the 'Finish' button or hit the 'Enter' key to complete the Calibration.

Finish

Hard-Disk Drive Protection application

The Hard-Disk Drive (HDD) Protection application protects the notebook HDD from damage caused by sudden harmful notebook shocks.

It monitors system movements that exceed the defined shock threshold. Once a shock is detected, the application instructs the HDD to temporarily park it's heads which protects against potential damage the drive. When the notebook motion stabilizes the heads are then un-parked.



Anti-Theft

The Anti-Theft (AT) feature attempts to assist in the detection of unwanted movement of the notebook. When turned on the notebook is "armed" such that subsequent notebook movement will sound an audio alarm. A successful login or unlock of the notebook will automatically "disarm" the alarm.



NOTE.... The shortcut keys to enable this application are: L, B, C, D, T, 1, 2, 3, 4, 5

Auto Rotate Screen

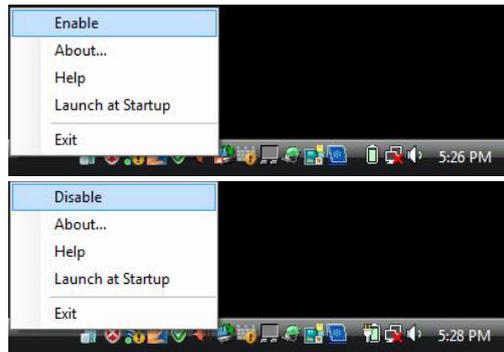
The Auto Rotate Screen feature allows display of the desktop to match the orientation of the notebook position. As the notebook is rotated the desktop orientation changes automatically.

Flip your computer to turn it vertically or maintain the original position in a horizontal view.



Enable/Disable Auto Rotate Screen

Select the context menu item labeled **Enable** or **Disable** to enable/disable the Auto Rotate Screen feature. The menu item will toggle between the Enable and Disable options depending on the current state.



Chapter

11

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.

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- 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.

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- * 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.

Unable to use the External USB Device

- * Detach the external device; insert it into the Enhanced USB port. Separate the cable with the equipment; first insert the wire into the port, then connect the device with the cable that is inserted into the Enhanced USB port.

Unable to Recognize the External USB Device

- * Please make sure power cable is inserted into the Enhanced USB port, if it is inserted then follow the normal procedures in disconnecting the device; power cable will not be disconnect, connect back the signal cable.

Appendix



Specification

O.S.

- * Supports Windows Vista Starter, Home Basic, Home Premium, Ultimate

CPU

- * Intel Cantiga GS45+ICH9M (SFF)
 - Supports Penryn Core2 Duo LV/SFF processor, SL9600, SL9400, SL9300 (Up to 2.13GHz), 6MB L2 Cache, 1066MHz FSB, TDP: 17 W
 - Supports Penryn Single Core ULV/SFF processor, SU2700, SU3500, SU3300 (Up to 1.4GHz), 3MB L2 Cache, 800MHz FSB, TDP: 5.5 W
- * Intel Cantiga GS40+ICH9M (SFF)
 - Supports Penryn CULV 723/SFF processor, 723 (1.2GHz), 1MB L2 Cache, 800MHz FSB, TDP: 10 W

Memory

- * Support DDRII 800 MHz
- * SODIMM RAM socket * 1, up to 4GB (depends on module's availability)
- * On board DDR2 1GB 128M*8 DRAM memory

Core Logic

- * Intel Cantiga GS45+ICH9M (SFF)
- * Intel Cantiga GS40+ICH9M (SFF)

VGA

- * Intel GS45

-
- * Intel GS40

Audio Codec

- * Realtek ALC888

LAN Controller

- * Supports 10/100/1000 Mb/Sec.
- * MII interface
- * Supported by Mini Port Replicator as an optional item

Wireless LAN

- * Half Mini Card type
- * PCI-E interface
- * Intel Shirley Peak 5300 (802.11 abgn) 3x3
- * Intel Echo Peak (802.11 abgn/WiMax) 1x2
- * WiMax support depends on AP's availability
- * 3rd party WLAN card BGN mode supported

Camera CCD (Optional)

- * Support 1.3M & 2.0M Camera

HDD (1.8") Or SSD module

- * HDD 1.8"
 - Support single SATA HDD for 5mm
 - Support SATA 2.0
- * SSD 1.8"
 - SATA interface
 - 64/128 GB support

Keyboard

- * Support US 83KEY/UK 85 KEY/JP 87KEY
- * LED keyboard back light support (Optional)

Pointing Device

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

LCD

- * 13.3" WXGA, resolution 1280 x 800 (16:10)
- * 13.3" WXGA, resolution 1366 x 768 (16:9)

Battery Pack

- * Li-polymer Battery - 3 cell 3150mAH (3S1P), 34.96W, YOKU
 - BMSPow type of T30-3S3150-B1Y1

AC-Adapter

- * Automatics Voltage adjustment between 100 and 240VAC
50/60Hz, 65 Watts., 2 Pin
 - Delta type of ADP-65HB AD

Intel Turbo Memory

- * On board 2GB Turbo Memory Technology 2.0 support
- * NAND flash and the Flash Cache Logic
- * PCI Express interface

Ambient Light Sensor

- * LCD back light brightness and darkness auto adjustment (0~7 Level)
- * Key Board LED back light brightness and darkness auto adjustment (0~3 Level)

G-sensor

- * System Hard disk driver protection
- * Intel Always Aware Application Rev 1.5 support

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: (W*L*H) 335.8*226.9*21.8mm (w/o rubber foot)
- * Weight: 1.5 kg (W/Battery)

RF

- * CE, R&TTE report/document, FCC

Safety

- * CB
- * CCC/ETL

EMI

- * CE, FCC, CCC

Suppression Core



NOTE....

From your accessories, align the suppression core on the cable of your Port Replicator as shown on the illustration. Snap it on the cable and close



