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FCC Statement (Federal Communications Commission)

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re orient 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 service representative or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

1. This device may not cause interference.

And

2. This device must accept any interference, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

- 1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This
 equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator
 and your body.

》 Warning

Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the manufacturer for compliance with the above standards could void your authority to operate the equipment.

If your purchase option includes both **Wireless LAN** and **3.5G** modules, then the appropriate antennas will be installed. Note that In order to comply with FCC RF exposure compliance requirements, the antenna must not be co-located or operate in conjunction with any other antenna or transmitter.

IMPORTANT SAFETY INSTRUCTIONS

Follow basic safety precautions, including those listed below, to reduce the risk of fire, electric shock, and injury to persons when using any electrical equipment:

- 1. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- 2. Avoid using this equipment with a telephone line (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
- 3. Do not use the telephone to report a gas leak in the vicinity of the leak.
- 4. 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 disposal instructions.
- This product is intended to be supplied by a Listed Power Unit with an AC Input of 100 240V, 50 60Hz, DC Output of 19V, 3.42A (65 Watts)/18.5V, 3.5A (65 Watts) minimum AC/DC Adapter for Model A, B, E & G computers, OR 19V, 4.74A (90 Watts) minimum AC/DC Adapter for Model C, D, F & H computers.

CAUTION

Always disconnect all telephone lines from the wall outlet before servicing or disassembling this equipment.

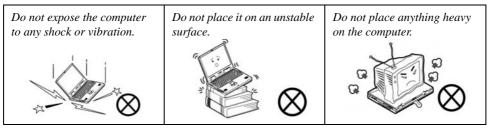
TO REDUCE THE RISK OF FIRE, USE ONLY NO. 26 AWG OR LARGER, TELECOMMUNICATION LINE CORD

This Computer's Optical Device is a Laser Class 1 Product

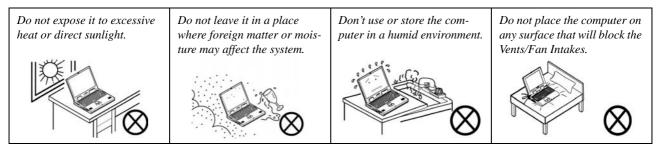
Instructions for Care and Operation

The notebook computer is quite rugged, but it can be damaged. To prevent this, follow these suggestions:

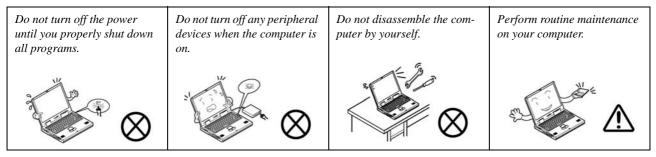
1. Don't drop it, or expose it to shock. If the computer falls, the case and the components could be damaged.



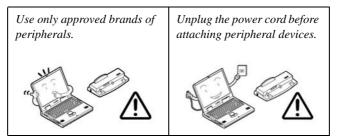
Keep it dry, and don't overheat it. Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.



- 3. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
- 4. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



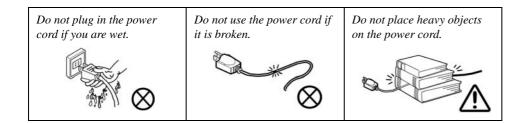
5. Take care when using peripheral devices.



Power Safety

The computer has specific power requirements:

- Only use a power adapter approved for use with this computer.
- Your AC/DC adapter may be designed for international travel but it still requires a steady, uninterrupted power supply. If you are unsure of your local power specifications, consult your service representative or local power company.
- The power adapter may have either a 2-prong or a 3-prong grounded plug. The third prong is an important safety feature; do not defeat its purpose. If you do not have access to a compatible outlet, have a qualified electrician install one.
- When you want to unplug the power cord, be sure to disconnect it by the plug head, not by its wire.
- Make sure the socket and any extension cord(s) you use can support the total current load of all the connected devices.
- Before cleaning the computer, make sure it is disconnected from any external power supplies (i.e. AC/DC adapter or car adapter).



Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

Battery Precautions

- Only use batteries designed for this computer. The wrong battery type may explode, leak or damage the computer.
- Do not remove any batteries from the computer while it is powered on.
- Do not continue to use a battery that has been dropped, or that appears damaged (e.g. bent or twisted) in any way. Even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire.
- If you do not use the battery for an extended period, then remove the battery from the computer for storage.
- Recharge the batteries using the notebook's system. Incorrect recharging may make the battery explode.
- Do not try to repair a battery pack. Refer any battery pack repair or replacement to your service representative or qualified service personnel.
- Keep children away from, and promptly dispose of a damaged battery. Always dispose of batteries carefully. Batteries may explode or leak if exposed to fire, or improperly handled or discarded.
- Keep the battery away from metal appliances.
- Affix tape to the battery contacts before disposing of the battery.
- Do not touch the battery contacts with your hands or metal objects.

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Battery Disposal & Caution

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

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

Cleaning

Do not apply cleaner directly to the computer; use a soft clean cloth. Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.

Servicing

Do not attempt to service the computer yourself. Doing so may violate your warranty and expose you and the computer to electric shock. Refer all servicing to authorized service personnel. Unplug the computer from the power supply. Then refer servicing to qualified service personnel under any of the following conditions:

- When the power cord or AC/DC adapter is damaged or frayed.
- If the computer has been exposed to rain or other liquids.
- If the computer does not work normally when you follow the operating instructions.
- If the computer has been dropped or damaged (do not touch the poisonous liquid if the LCD panel breaks).
- If there is an unusual odor, heat or smoke coming from your computer.

Removal Warning

When removing any cover(s) and screw(s) for the purposes of device upgrade, remember to replace the cover(s) and screw(s) before turning the computer on.

Travel Considerations

Packing

As you get ready for your trip, run through this list to make sure the system is ready to go:

- 1. Check that the battery pack and any spares are fully charged.
- 2. Power off the computer and peripherals.
- 3. Close the display panel and make sure it's latched.
- 4. Disconnect the AC/DC adapter and cables. Stow them in the carrying bag.
- 5. The AC/DC adapter uses voltages from 100 to 240 volts so you won't need a second voltage adapter. However, check with your travel agent to see if you need any socket adapters.
- 6. Put the notebook in its carrying bag and secure it with the bag's straps.
- 7. If you're taking any peripherals (e.g. a printer, mouse or digital camera), pack them and those devices' adapters and/or cables.
- 8. Anticipate customs Some jurisdictions may have import restrictions or require proof of ownership for both hardware and software. Make sure your documents are prepared.

之送 Power Off Before Traveling

Make sure that your notebook is completely powered off before putting it into a travel bag (or any such container). Putting a notebook which is powered on in a travel bag may cause the vent(s)/fan intake(s)/outlet(s) to be blocked. To prevent your computer from overheating make sure nothing blocks the vent(s)/fan intake(s)/outlet(s) while the computer is in use.

On the Road

In addition to the general safety and maintenance suggestions in this preface, and Chapter 8: Troubleshooting, keep these points in mind:

Hand-carry the notebook - For security, don't let it out of your sight. In some areas, computer theft is very common. Don't check it with normal luggage. Baggage handlers may not be sufficiently careful. Avoid knocking the computer against hard objects.

Beware of Electromagnetic fields - Devices such as metal detectors & X-ray machines can damage the computer, hard disk, floppy disks, and other media. They may also destroy any stored data - Pass your computer and disks around the devices. Ask security officials to hand-inspect them (you may be asked to turn it on). **Note**: Some airports also scan luggage with these devices.

Fly safely - Most airlines have regulations about the use of computers and other electronic devices in flight. These restrictions are for your safety, follow them. If you stow the notebook in an overhead compartment, make sure it's secure. Contents may shift and/or fall out when the compartment is opened.

Get power where you can - If an electrical outlet is available, use the AC/DC adapter and keep your battery(ies) charged.

Keep it dry - If you move quickly from a cold to a warm location, water vapor can condense inside the computer. Wait a few minutes before turning it on so that any moisture can evaporate.

Developing Good Work Habits

Developing good work habits is important if you need to work in front of the computer for long periods of time. Improper work habits can result in discomfort or serious injury from repetitive strain to your hands, wrists or other joints. The following are some tips to reduce the strain:



- Adjust the height of the chair and/or desk so that the keyboard is at or slightly below the level of your elbow. Keep your forearms, wrists, and hands in a relaxed position.
- Your knees should be slightly higher than your hips. Place your feet flat on the floor or on a footrest if necessary.
- Use a chair with a back and adjust it to support your lower back comfortably.
- Sit straight so that your knees, hips and elbows form approximately 90-degree angles when you are working.
- Take periodic breaks if you are using the computer for long periods of time.

Remember to:



- Alter your posture frequently.
- Stretch and exercise your body several times a day.
- Take periodic breaks when you work at the computer for long periods of time. Frequent and short breaks are better than fewer and longer breaks.

Lighting

Proper lighting and comfortable display viewing angle can reduce eye strain and muscle fatigue in your neck and shoulders.

- Position the display to avoid glare or reflections from overhead lighting or outside sources of light.
- Keep the display screen clean and set the brightness and contrast to levels that allow you to see the screen clearly.
- Position the display directly in front of you at a comfortable viewing distance.
- Adjust the display-viewing angle to find the best position.

LCD Screen Care

To prevent **image persistence** on LCD monitors (caused by the continuous display of graphics on the screen for an extended period of time) take the following precautions:

- Set the Windows Power Plans to turn the screen off after a few minutes of screen idle time.
- Use a rotating, moving or blank screen saver (this prevents an image from being displayed too long).
- Rotate desktop background images every few days.
- Turn the monitor off when the system is not in use.

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Chapter 1: Quick Start Guide

Overview

This Quick Start Guide is a brief introduction to the basic features of your computer, to navigating around the computer and to getting your system started. The remainder of the manual covers the following:

- Chapter 2 A guide to using some of the main features of the computer e.g. the storage devices (hard disk, optical device, 7-in-1 card reader, ExpressCard/34/54), TouchPad & Mouse, Audio & Printer.
- Chapter 3 The computer's power saving options.
- **Chapter 4** The installation of the **drivers** and utilities essential to the operation or improvement of some of the computer's subsystems.
- Chapter 5 An outline of the computer's built-in software or **BIOS** (Basic Input Output System).
- Chapter 6 Instructions for upgrading your computer.
- Chapter 7 A quick guide to the computer's Fingerprint, Bluetooth, Wireless LAN, PC Camera and 3.75G/ HSPA modules (some of which may be optional depending on your purchase configuration).
- Chapter 8 A troubleshooting guide.
- Appendix A Definitions of the interface, ports/jacks which allow your computer to communicate with external devices.
- Appendix B Information on the SiS Video driver controls.
- Appendix C Information on the NVIDIA Video driver controls.
- Appendix D The computer's specification.
- Appendix E Information on the *Windows XP* OS.
- Appendix E Information on the *Windows* 7 OS.

Advanced Users

If you are an advanced user you may skip over most of this Quick Start Guide. However you may find it useful to refer to "*What to Install*" on page 4 - 1, "*BIOS Utilities*" on page 5 - 1 and "*Upgrading The Computer*" on page 6 - 1 in the reminder of the User's Manual. You may also find the notes marked with a \mathcal{P} of interest to you.

Beginners and Not-So-Advanced Users



Check the light colored boxes with the mark above to find detailed information about the computer's features.

If you are new to computers (or do not have an advanced knowledge of them) then the information contained in the Quick Start Guide should be enough to get you up and running. Eventually you should try to look through all the documentation (more detailed descriptions of the functions, setup and system controls are covered in the remainder of the User's Manual), but do not worry if you do not understand everything the first time. Keep this manual nearby and refer to it to learn as you go. You may find it useful to refer to the notes marked with a P as indicated in the margin. For a more detailed description of any of the interface ports and jacks see "Interface (Ports & Jacks)" on page A - 1.

Warning Boxes

No matter what your level please pay careful attention to the warning and safety information indicated by the 2 symbol. Also please note the safety and handling instructions as indicated in the *Preface*.

Not Included

Operating Systems (e.g. *Windows Vista/Windows 7/Windows XP*) and applications (e.g. word processing, spreadsheet and database programs) have their own manuals, so please consult the appropriate manuals. This manual refers to the *Windows Vista* operating system (for specific driver information on *Windows XP* or *Windows 7* see "*Windows XP Information*" on page E - 1 or "*Windows 7 Information*" on page F - 1).

Drivers

B

If you are installing new system software, or are re-configuring your computer for a different system, you will need to install the drivers listed in "Drivers & Utilities" on page 4 - 1. Drivers are programs which act as an interface between the computer and a hardware component e.g. a wireless network module. It is very important that you install the drivers in the order listed. You will be unable to use most advanced controls until the necessary drivers and utilities are properly installed. If your system hasn't been properly configured (your service representative may have already done that for you); refer to Chapter 4 for installation instructions.

Ports and Jacks

See "Notebook Ports and Jacks" on page A - 2 for a description of the interface (ports & jacks) which allow your computer to communicate with external devices, connect to the internet etc.

Model Differences

This notebook series includes **eight** different model types (each model includes different design styles) as indicated in *Table 1 - 1*. The exact outward appearance and some of the Hot-Key buttons may appear slightly different from those illustrated in this manual, however all the ports, components and functions etc. are the same for each design style.

| Feature | Model A | Model B | Model C | Model D | Model E | Model F | Model G | Model H |
|------------------------------|------------------|------------------|-----------|--------------------------------------------------------|------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|
| Video Adapter | | | System (E | NVIDIA Discrete Video System (External On Board) | | NVIDIA Discrete Video System (External On Board) | SiS Integrated Video System (Internal On Chip) | NVIDIA Discrete Video System (External On Board) |
| AC/DC Adapter | 65W 90' | | w | 65W | 90W | 65W | 90W | |
| Display Type Supported | 14.1" LCD | 15.4" LCD | 14.1" LCD | 15.4" LCD | 17" LCD | 17" LCD | 15.6" LCD | 15.6" LCD |
| Fingerprint Reader | Not Available | Not Available | Optional | Optional | Not Available | Optional | Not Available | Optional |

Table 1 - 1 - Model Differences

System Startup

- 1. Remove all packing materials.
- 2. Place the computer on a stable surface.
- 3. Securely attach any peripherals you want to use with the notebook (e.g. keyboard and mouse) to their ports.
- 4. Attach the AC/DC adapter to the DC-In jack on the left of the computer, then plug the AC power cord into an outlet, and connect the AC power cord to the AC/DC adapter.
- Use one hand to raise the lid/LCD to a comfortable viewing angle (do not exceed 120 degrees); use the other hand (as illustrated in *Figure 1 - 1* below) to support the base of the computer (Note: Never lift the computer by the lid/LCD).

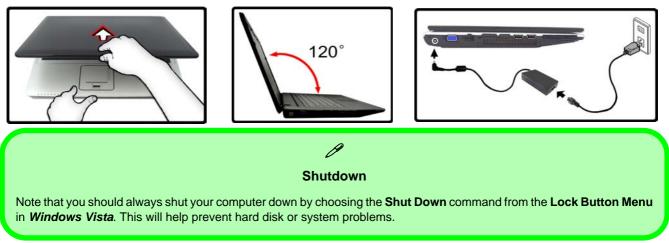


Figure 1 - 1 - Opening the Lid/LCD/Computer with AC/DC Adapter Plugged-In

Operating System Setup

If you are installing new system software, or are re-configuring your computer for a different system, make sure you configure the appropriate OS setting in the BIOS before installing a new operating system (**Note**: If you have installed the *Windows Vista/Win 7* operating system with **AHCI** mode enabled, **DO NOT** disable AHCI mode or you will need to reinstall the *Windows* OS).

- 1. Start-up the computer and press <**F2**> to enter the **BIOS**.
- 2. Go to the Advanced menu, select "Installed O/S" and make sure the appropriate operating system is selected.
- 3. Go to the **Exit** menu and select "*Exit Saving Changes*" (or press **F10** and select "**Yes**" then press Enter) and press Enter to exit the BIOS and reboot the computer.

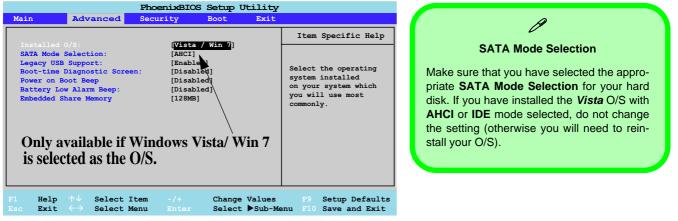


Figure 1 - 2 - Advanced BIOS Menu

System Software

Your computer may already come with system software pre-installed. Where this is not the case, or where you are re-configuring your computer for a different system, you will find the following operating systems are supported.

| Operating System & Version | Note | |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| *Windows XP (Home or Professional) | In order to run <i>Windows XP</i> without limitations or decreased performance, your computer requires a minimum 512MB of system memory (RAM) | |
| Windows Vista - SP2 | In order to run <i>Windows Vista/ Windows</i> without limitations or decreased performanc your computer requires a minimum 1GB system memory (RAM). | |
| *Windows 7 | | |

Table 1 - 2 - Operating Systems Supported

*Note: For information on the *Windows XP OS* see "*Windows XP Information*" on page *E* - 1. For information on the *Windows 7 OS* see "*Windows 7 Information*" on page *F* - 1.

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Windows Vista Service Pack 2

Make sure you install **Windows Vista Service Pack 2** (or a **Windows Vista** version which includes Service Pack 2) **before installing any drivers**. Go to the Microsoft website for download details, or contact your service center.

Figure 1 - 3 LCD Panel Open (Model A & C Computers)

- 1. Built-In PC Camera (**Optional**)
- 2. LCD
- 3. Speakers
- 4. Power Button
- 5. Hot Key Buttons
- 6. Keyboard
- 7. Built-In Microphone
- 8. Touchpad & Buttons
- 9. Fingerprint Module (Optional for Models C, D, F & H Only)
- 10. LED Indicators



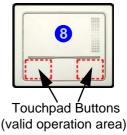
System Map: LCD Panel Open - Models A & C



Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the key combinations to toggle power to the **3.75G/HSPA/WLAN/Bluetooth** modules, and check the LED indicator icon to see if the modules are powered on or not (see **Table 1 - 6**, on page 1 - 17/ **Table 1 - 4**, on page 1 - 12).



System Map: LCD Panel Open - Models B & D



Wireless Device **Operation Aboard Aircraft**

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard

Use the key combinations to toggle power to the 3.75G/HSPA/WLAN/Bluetooth modules, and check the LED indicator icon to see if the modules are powered on or not (see Table 1 - 6, on page 1 - 17/ Table 1 - 4, on page 1 - 12).

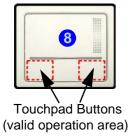




Figure 1 - 4 LCD Panel Open (Model B & D **Computers**)

- Built-In PC Camera 1. (Optional)
- LCD 2.
- 3. Speakers
- 4. Power Button
- 5. Hot Key Buttons
- 6. Keyboard
- 7. **Built-In Microphone**
- 8. Touchpad & **Buttons**
- 9. **Fingerprint Module** (Optional for Models C, D, F & H Only)

10. LED Indicators



Figure 1 - 5 LCD Panel Open (Model E & F Computers)

- 1. Built-In PC Camera (**Optional**)
- 2. LCD
- 3. Power Button
- 4. Hot Key Buttons
- 5. Keyboard
- 6. Built-In Microphone
- 7. Touchpad & Buttons
- 8. Fingerprint Module (Optional for Models C, D, F & H Only)
- 9. LED Indicators





System Map: LCD Panel Open - Models E & F



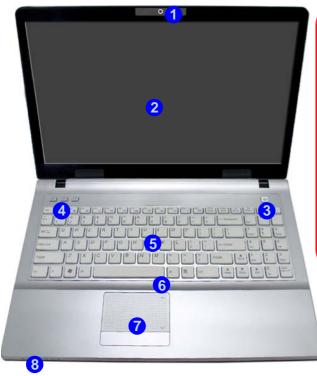
The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the key combinations to toggle power to the **3.75G/HSPA/WLAN/Bluetooth** modules, and check the LED indicator icon to see if the modules are powered on or not (see **Table 1 - 6**, on page 1 - 17/ **Table 1 - 4**, on page 1 - 12).



Touchpad Buttons (valid operation area)

System Map: LCD Panel Open - Models G & H



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Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the key combinations to toggle power to the **3.75G/HSPA/WLAN/ Bluetooth** modules, and check the LED indicator icon to see if the modules are powered on or not (see Table 1 - 6, on page 1 - 17/ Table 1 - 4, on page 1 - 12).

Touchpad Buttons (valid operation area)

Figure 1 - 6 LCD Panel Open (Model G & H Computers)

Quick Start Guide

- 1. Built-In PC Camera (**Optional**)
- 2. LCD
- 3. Power Button
- 4. Hot Key Buttons
- 5. Keyboard
- 6. Built-In Microphone
- 7. Touchpad & Buttons
- 8. LED Indicators

Note: The Fingerprint Reader module is optional for **Models C, D, F & H**.



LED Indicators

The LED indicators on the computer display helpful information about the current status of the computer.

| lcon | Color | Description |
|------|-------|----------------------------------------------------------|
| 8 | Green | Hard Disk Activity |
| ß | Green | Number Lock Activated |
| A | Green | Caps Lock Activated |
| Ð | Green | Scroll Lock Activated (to activate press Fn & Scr Lk) |

Table 1 - 3 - LED Status Indicators

| lcon | Color | Description | | |
|----------------|-----------------|--------------------------------------------------------------|--|--|
| ₽/Ს | Orange | DC Power is Plugged In | | |
| | Green | The Computer is On | | |
| | Blinking Green | The Computer is in Sleep Mode | | |
| (| Orange | The Battery is Charging | | |
| | Green | The Battery is Fully Charged | | |
| | Blinking Orange | The Battery Has Reached Critically Low Power Status | | |
| ((X)) | Green | The (optional) Wireless LAN Module is Powered On | | |
| | Orange | The (optional) Bluetooth Module is Powered On | | |

Table 1 - 4 - LED Power & Communication Indicators

Hot Key Buttons & Keyboard

These buttons give instant access to the default Internet browser and e-mail program, and allow you to toggle the **Silent Mode** on/off with one quick button press.

| Hot Key | Function |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Þ | Activate the Default E-Mail Browser (Note that In <i>Windows</i> 7 without Outlook/Outlook Express installed this button has no function. If Outlook/Outlook Express are installed then the button will activate the application) |
| W | Activate the Default Internet Program |
| M | Toggle *Silent Mode (for power saving) |

Table 1 - 5 - Hot Key Buttons

*When enabled, **Silent Mode** will reduce fan noise and save power consumption. Note this may reduce computer performance.

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Other Keyboards

If your keyboard is damaged or you just want to

make a change, you can

use any standard USB

keyboard. The system will

detect and enable it auto-

matically. However spe-

unique to the system's

regular keyboard may not

NumLk & ScrLk

Hold down the **Fn Key** and either NumLk (**Mod**-

els E & F do not require the Fn Key press for

NumLk) or ScrLk to enable number or scroll lock, and check the LED

indicator for status.

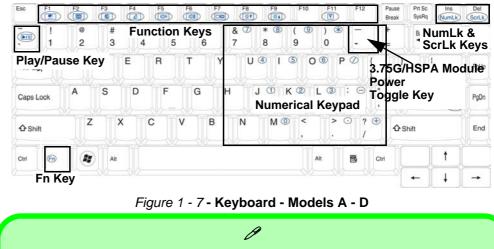
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work.

functions/hot-keys

Keyboard - Models A - D

The keyboard (Models A - D) has an embedded numerical keypad for easy numeric data input, and features function keys to allow you to change operational features instantly. See *Table 1 - 6, on page 1 - 17* for full function key combination details.



Special Characters

Some software applications allow the number-keys to be used with **Alt** to produce special characters. These special characters can only be produced by using the numeric keypad. Regular number keys (in the upper row of the keyboard) will not work. Make sure that **NumLk** is on.

Keyboard - Models E - F

The keyboard (Models E - F) has a numerical keypad on the right for easy numeric data input, and features function keys to allow you to change operational features instantly. See *Table 1 - 6, on page 1 - 17* for full function key combination details.

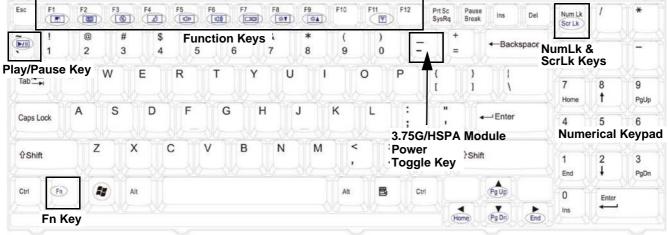


Figure 1 - 8 - Keyboard - Models E - F

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Keyboard - Models G - H

The keyboard (Models G - H) has a numerical keypad on the right for easy numeric data input, and features function keys to allow you to change operational features instantly. See *Table 1 - 6, on page 1 - 17* for full function key combination details.

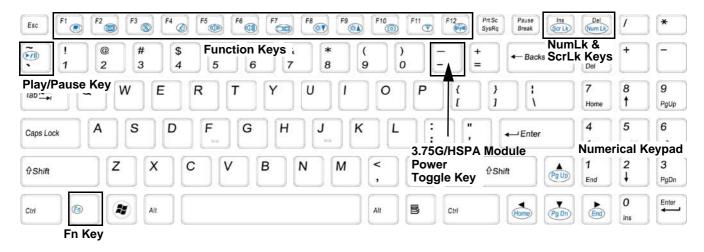


Figure 1 - 9 - Keyboard - Models G - H

Function/Hot Key Indicators

The **function keys** (F1 - F12 etc.) will act as **hot keys** when pressed while the **Fn** key is held down. In addition to the basic function key combinations; visual indicators are available when the hot key utility is installed (see *"Hot Key" on page 4 - 6*). When the driver is installed, an icon will appear in the taskbar.

| Keys | Function | Keys | Function |
|------------|-----------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------|
| Fn + ~ | Play/Pause (in Audio/Video Programs) | Fn + F7 | Display Toggle |
| Fn + 🛄 | 3.75G/HSPA Module Power Toggle | Fn + F8/F9 | Brightness Decrease/Increase |
| Fn + F1 | TouchPad Toggle | Fn + F10 | PC Camera Power Toggle |
| Fn + F2 | Turn LCD Backlight Off (Press a key to or use TouchPad to turn on) | Fn + F11 | WLAN Module Power Toggle |
| Fn + F3 | Mute Toggle | Fn + F12 | Bluetooth Module Power Toggle 7 |
| Fn + F4 | Sleep Toggle | A | *Silent Mode Toggle |
| Fn + F5/F6 | Volume Decrease/Increase | | nabled, Silent Mode will reduce fan noise and save power umption. Note this may reduce computer performance. |

System Map: Front & Left Views

Figure 1 - 10 Front & Left Views

- 1. LED Indicators
- 2. DC-In Jack
- 3. External Monitor Port
- 4. RJ-45 LAN Jack
- 5. Vent/Fan Intake/ Outlet
- 6. 2 * USB 2.0 Ports
- 7. ExpressCard Slot (see page 2 - 7)
- 8. 7-in-1 Card Reader



Note: Only one model is pictured here, however all the ports are the same for all the models.

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| | |
| | |



7-in-1 Card Reader

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The card reader allows you to use the most popular digital storage card formats:

MMC (MultiMedia Card) / SD (Secure Digital) / MS (Memory Stick) / MS Pro (Memory Stick Pro) / MS Duo (requires PC adapter) / Mini SD (requires PC adapter) / RS MMC (requires PC adapter)

System Map: Right & Rear Views



Figure 1 - 11 Right & Rear Views

- 1. S/PDIF-Out Jack
- 2. Microphone-In Jack
- 3. Headphone-Out Jack
- 4. USB 2.0 Port
- 5. Optical Device Drive Bay (for CD/ DVD Device)
- 6. RJ-11 Phone Jack
- 7. Security Lock Slot
- 8. Battery

Note: Only one model is pictured here, however all the ports are the same for all the models.

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Disk Eject Warning

Don't try to eject a CD/DVD while the system is accessing it. This may cause the system to "crash". Stop the disk first then eject it, or press the stop button twice.

CD/DVD Emergency Eject

If you need to manually eject a CD/DVD (e.g. due to an unexpected power interruption) you may push the end of a straightened paper clip into the emergency eject hole. Do not use a sharpened pencil or any object that may break and become lodged in the hole. Don't try to remove a floppy disk/CD/DVD while the system is accessing it. This may cause the system to "crash".

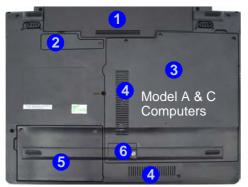
Changing DVD Regional Codes

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Go to the **Control Panel** and double-click **Device Manager (Hardware and Sound)**, then click the **+** next to **DVD/CD-ROM drives**. Double-click on the DVD-ROM device to bring up the **Properties** dialog box, and select the **DVD Region** (tab) to bring up the control panel to allow you to adjust the regional code.

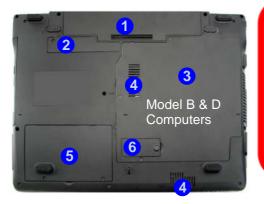
DVD region detection is device dependent, not OSdependent. You can select your module's region code **5** times. The fifth selection is permanent. This cannot be altered even if you change your operating system or you use the module in another computer.

System Map: Bottom View - Models A - D



Battery Information

Always completely discharge, then fully charge, a new battery before using it. Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges. See *"Battery Information" on page 3 - 10* for full instructions.



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CPU

The CPU is not a user serviceable part.

Overheating

To prevent your computer from overheating make sure nothing blocks the Vent/Fan Intake while the computer is in use.

Figure 1 - 12 Bottom View (Model A - D Computers)

- 1. Battery
- 2. Bluetooth Module Cover
- 3. RAM & CPU Bay Cover
- 4. Vent/Fan Intake/ Outlet
- 5. Hard Disk Bay Cover
- 6. 3.75G/HSPA USIM Card Location

System Map: Bottom View - Models A - D 1 - 21

Figure 1 - 13 Bottom View (Model E & F Computers)

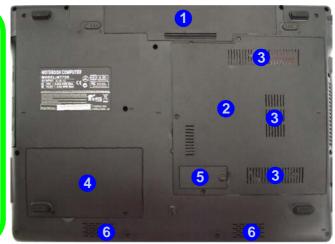
- 1. Battery
- 2. RAM & CPU Bay Cover
- 3. Vent/Fan Intake/ Outlet
- 4. Hard Disk Bay Cover
- 5. 3.75G/HSPA USIM Card Location
- 6. Speakers

System Map: Bottom View - Models E & F

Battery Information

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Always completely discharge, then fully charge, a new battery before using it. Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges. See "Battery Information" on page 3 - 10 for full instructions.



<u>Д</u>сери

The CPU is not a user serviceable part.

Overheating

To prevent your computer from overheating make sure nothing blocks the Vent/Fan Intake while the computer is in use.

System Map: Bottom View - Models G & H

C Battery Information

Always completely discharge, then fully charge, a new battery before using it. Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges. See "Battery Information" on page 3 - 10 for full instructions.

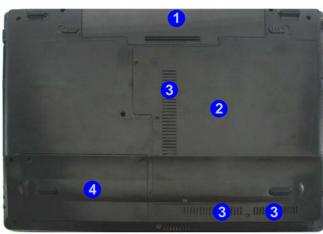


Figure 1 - 14 Bottom View (Model G & H Computers)

- 1. Battery
- 2. RAM & CPU Bay Cover
- 3. Vent/Fan Intake/ Outlet
- 4. Hard Disk Bay Cover

Note: the 3.75G/HSPA USIM Card is located under the RAM & CPU Bay Cover.

СРИ

The CPU is not a user serviceable part.

Overheating

To prevent your computer from overheating make sure nothing blocks the Vent/Fan Intake while the computer is in use.

System Map: Bottom View - Models G & H 1 - 23

Windows Vista Start Menu & Control Panel

Most of the control panels, utilities and programs within *Windows Vista* (and most other *Windows* versions) are accessed from the **Start** menu. When you install programs and utilities they will be installed on your hard disk drive, and a shortcut will usually be placed in the **Start** menu and/or the desktop. Right-click the **Start menu** icon [5], and then select **Properties** if you want to customize the appearance of the **Start** menu.



In many instances throughout this manual you will see an instruction to open the **Control Panel**. The **Control Panel** is accessed from the **Start** menu, and it allows you to configure the settings for most of the key features in *Windows* (e.g. power, video, network, audio etc.). *Windows Vista* provides basic controls for many of the features, however many new controls are added (or existing ones are enhanced) when you install the drivers listed in *Table 4 - 1, on page 4 - 3*. To see all controls it may be necessary to toggle to Classic View on.

1 - 24 Windows Vista Start Menu & Control Panel

Video Features

This computer features two different (either SiS for Model A, B, E & G computers or NVIDIA for Models C, D, F & H computers) video options. You can switch display devices, and configure display options, from the Display Settings control panel (in Personalization) in *Windows Vista*.

To access Display Settings in Windows Vista:

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Click Adjust screen resolution under the Appearance and Personalization menu (or double-click **Personalization > Display Settings**).
- 3. Move the slider to the preferred setting in **Resolution:** (1) (*Figure 1 16 on page 1 26*).
- 4. Click the arrow, and scroll to the preferred setting In **Colors:** (2) (*Figure 1 16 on page 1 26*).

To access the SiS VGA Control Center (Models A, B, E & G):

1. The SiS VGA Control Center can be accessed by right-clicking the SIS Tray taskbar icon , and selecting Control Center (or from the SiS VGA Control Center in the *Windows* control panel).

To access the NVIDIA Control Panel (Models C, D, F & H):

1. The **NVIDIA Control Panel** can be accessed by right-clicking the desktop, and then clicking **NVIDIA Control Panel** (or from the **NVIDIA Control Panel** in the **Windows** control panel).

Note: After installing the video driver go to the **Display Settings** control panel to adjust the video settings to the highest resolution.

Display Settings & Video Control Panel/Center

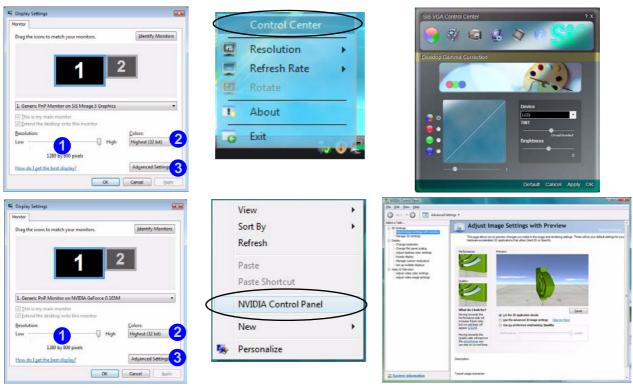


Figure 1 - 16 - Display Settings & Video Control Panel/Center

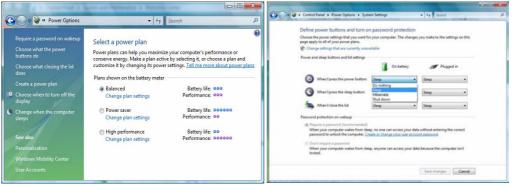
1 - 26 Video Features

Power Options

The **Power Options** (**Hardware and Sound** menu) control panel icon in *Windows* (see page *1 - 23*) allows you to configure power management features for your computer. You can conserve power by means of **power plans** and configure the options for the **power button**, **sleep button**, **computer lid** (**when closed**), **display** and **sleep** mode from the left menu. Note that the **Power saver** plan may have an affect on computer performance.

Click to select one of the existing plans, or click *Create a power plan* in the left menu and select the options to create a new plan. Click *Change Plan Settings* and click *Change advanced power settings* to access further configuration options.

Pay attention to the instructions on battery care in "Battery Information" on page 3 - 10.



Note: Sleep is the default power saving state in Windows Vista

Figure 1 - 17 - Power Options



Chapter 2: Features & Components

Overview

Read this chapter to learn more about the following main features and components of the computer:

- Hard Disk Drive
- Optical (CD/DVD) Device
- 7-in-1 Card Reader
- ExpressCard Slot
- TouchPad and Buttons/Mouse
- Audio Features
- Adding a Printer



Power Safety

Before attempting to access any of the internal components of your computer please ensure that the machine is not connected to the AC power, and that the machine is turned off. Also ensure that all peripheral cables, including phone lines, are disconnected from the computer.

Hard Disk Drive

The hard disk drive is used to store your data in the computer. The hard disk can be taken out to accommodate other 2.5" serial (SATA) hard disk drives (see "*Storage*" *on page D* - 4) with a height of 9.5 mm.

The hard disk is accessible from the bottom of your computer as seen below. For further details see "*Upgrading the Hard Disk Drive*" on page 6 - 4.



Figure 2 - 1

Hard Disk Location

Optical (CD/DVD) Device

There is a bay for a 5.25" optical (CD/DVD) device (12.7mm height). The actual device will depend on the module you purchased (see "*Storage*" on page D - 4). The optical device is usually labeled "**Drive D:**" and may be used as a boot device if properly set in the **BIOS** (see "*Boot Menu*" on page 5 - 13).

Loading Discs

To insert a CD/DVD, press the open button **1** and carefully place a CD/DVD onto the disc tray with label-side facing up (use just enough force for the disc to click onto the tray's spindle). Gently push the CD/DVD tray in until its lock "clicks" and you are ready to start. The busy indicator **2** will light up while data is being accessed, or while an audio/video CD, or DVD, is playing. If power is unexpectedly interrupted, insert an object such as a straightened paper clip into the emergency eject hole **3** to open the tray.

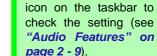


Figure 2 - 2 **Optical Device**



How high the sound volume can be set depends on the setting of the vol-

ume control within Win-

dows. Click the Volume



CD Emergency Eject

If you need to manually eject a CD (e.g. due to an unexpected power interruption) you may push the end of a straightened paper clip into the emergency eject hole. However please do NOT use a sharpened pencil or similar object that may break and become lodged in the hole.

Disk Eject Warning

Don't try to remove a CD/DVD while the system is accessing it. This may cause the system to "crash".

Handling CDs or DVDs

Proper handling of your CDs/DVDs will prevent them from being damaged. Please follow the advice below to make sure that the data stored on your CDs/DVDs can be accessed.

Note the following:

- Hold the CD or DVD by the edges; do not touch the surface of the disc.
- Use a clean, soft, dry cloth to remove dust or fingerprints.
- Do not write on the surface with a pen.
- Do not attach paper or other materials to the surface of the disc.
- Do not store or place the CD or DVD in high-temperature areas.
- Do not use benzene, thinner, or other cleaners to clean the CD or DVD.
- Do not bend the CD or DVD.
- Do not drop or subject the CD or DVD to shock.

Optical (CD/DVD) Device 2 - 5

Table 2 - 1DVD Regional Coding

2

DVD Regional Codes

To change the DVD regional codes see "Changing DVD Regional Codes" on page 1 - 20.

| DVD Regional Coding | | |
|---------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Region | Geographical Location | General DVD Region Volumes Driver Details |
| 1 | USA, Canada | Most DVDs are encoded for play in specific regions. To play a regionalized DVD on your computer, you must set your DVD drive to play discs from that region by selecting a geographic area from the |
| 2 | Western Europe, Japan, South Africa, Middle East & Egypt | following list. CAUTION You can change the region a limited number of times, After Changes remaining reaches zero, you cannot change the region even if you reinstall Windows or move your DVD drive to a different computer. |
| 3 | South-East Asia, Taiwan, South Korea, The Philippines, Indonesia, Hong Kong | Changes remaining: 5 To change the current region, select a geographic area, and then click OK. United Arab Emirates United Kingdom United Safes |
| 4 | South & Central America, Mexico, Australia, New Zealand | Utuguay Utabekisan Vanuatu Vatican City Current Recion: Not Selected |
| 5 | N Korea, Russia, Eastern Europe, India & Most of Africa | New Region: Region 1 |
| 6 | China | |



Card Reader Cover

Make sure you keep the rubber cover provided in the card reader when not in use. This will help prevent foreign objects and/or dust getting in to the card reader.

7-in-1 Card Reader

The card reader allows you to use some of the latest digital storage cards. Push the card into the slot and it will appear as a removable device, and can be accessed in the same way as your hard disk (s). Make sure you install the Card Reader driver (see "*CardReader*" on page 4 - 6).

- MMC (MultiMedia Card)
- SD (Secure Digital)
- MS (Memory Stick)
- MS Pro (Memory Stick Pro)

- MS Duo (requires PC adapter*)
- Mini SD (requires PC adapter*)
- RS MMC (requires PC adapter*)

*Note: The PC adapters are usually supplied with these cards.



Figure 2 - 3 **Left View**

1. Card Reader

ExpressCard Slot

The computer is equipped with an **ExpressCard/34/54** slot that reads Express Card/ 34 and ExpressCard/54 formats. ExpressCards are the successors to PCMCIA (PC Cards). Make sure you install the Card Reader driver (see "*CardReader*" on page 4 - 6).

ExpressCard/54 is used for applications which require a larger interface slot, e.g. CompactFlash card reader. The number denotes the card width; 54mm for the Express Card/54 and 34mm for the ExpressCard/34.



Inserting and Removing ExpressCards

- Align the ExpressCard with the slot and push it in until it locks into place (as pictured in the generic figure below).
- To remove an ExpressCard, simply press the card to eject it.







ExpressCard Slot Cover

Make sure you keep the rubber cover provided in the ExpressCard slot when not in use. This will help prevent foreign objects and/or dust getting in to the Express-Card Slot.

Figure 2 - 4 Left View

1. Express Card Slot

Figure 2 - 5 Inserting & Removing Express Cards 2

Mouse Driver

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If you are using an external mouse your operating system may be able to auto-configure your mouse during its installation or only enable its basic functions. Be sure to check the device's user documentation for details.

Figure 2 - 6 **Mouse Properties**

TouchPad and Buttons/Mouse

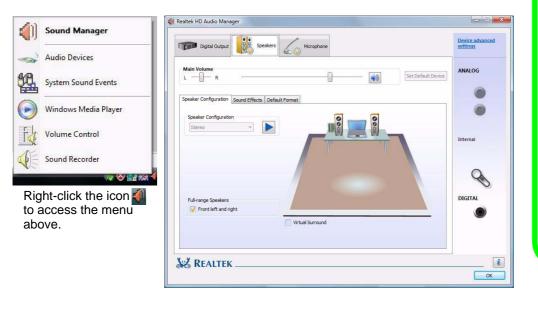
The TouchPad is an alternative to the mouse; however, you can also add a mouse to your computer through one of the USB ports. The TouchPad buttons function in much the same way as a two-button mouse.

Once you have installed the TouchPad driver (see "*TouchPad*" on page 4 - 6) you can configure the functions by double-clicking the TouchPad driver icon \square on the **taskbar**. You may then configure the TouchPad tapping, buttons, scrolling, pointer motion and sensitivity options to your preferences. You will find further information at www.synaptics.com.

| | C | 0 10 170 07 |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Button configuration | Synaptics Pointing Device - v10 | 1.U. 12 1/Augu/ |
| Devices: Synaptics TouchPad V6.2 on PS/2 Port 3 | Devices: | |
| Right-handed C Left-handed | Enabled Name | Po |
| Left Right | Yes Synaptics TouchPad V6.2 | PS |
| Primary Click (Normal Select, - Secondary Click (Co | text | |
| Normal Drag) Menu, Special Drag) | | |
| | | |
| Double Click Speed | <u>E</u> nable | Disable Settings |
| Double-click the folder to test your setting. If the folder does not | | |
| open or close, try using a slower setting. | | |
| Slow Fast | Tray Icon | |
| i i i i i i i i i i i i i i i i i i i | C Remove tray icon from taskbar | 4:20 F |
| Click ock | and the second sec | |
| Tum on ClickLock Sett | gs | 💋 4:20 F |
| | Agimated tray icon in taskbar | |
| Enables you to highlight or drag without holding down the mouse button. | Fo set. | |
| | | |
| briefly press the mouse button. To release, click the mouse button again | | www.synaptics |

Audio Features

You can configure the audio options on your computer from the **Sound** O control panel in *Windows*, or from the **Realtek HD Audio Manager** O icon in the taskbar/ control panel (right-click the taskbar icon O to bring up an audio menu). The volume may also be adjusted by means of the **Fn** + **F5/F6** key combination.



Sound Volume Adjustment

B

The sound volume level is set using the volume control within **Windows** (and the volume function keys on the computer). Click the volume icon in the taskbar to check the setting.



Figure 2 - 7 Realtek Audio Manager

Parallel Printer

A

After setting up the printer attach the parallel cable to the printer.

Connect the printer's parallel cable to the Parallel to USB converter, and then plug the converter into the USB port.

Turn ON the printer, then turn ON the computer.

Windows will identify the printer and either load one of its own drivers or ask you to supply one. Follow the on-screen instructions.

Adding a Printer

The most commonly used peripheral is a printer. The following conventions will help you to add a printer; however it is always best to refer to the printer manual for specific instructions and configuration options.

USB Printer

Most current printers have a USB interface connection. You may use any one of the ports to connect the printer.

Install Instructions:

- 1. Set up the printer according to its instructions (unpacking, paper tray, toner/ink cartridge etc.).
- 2. Turn ON the computer.
- 3. Turn ON the printer.
- 4. Connect the printer's USB cable to one of the USB ports on the computer.
- 5. *Windows* will identify the printer and either load one of its own drivers or ask you to supply one. Follow the on-screen instructions.

Parallel Printer

This is still a very common type of printer. The install instructions are in the sidebar, however you will need to purchase a parallel to USB converter.

Overview 3 - 1

Chapter 3: Power Management

Overview

To conserve power, especially when using the battery, your computer power management conserves power by controlling individual components of the computer (the monitor and hard disk drive) or the whole system. This chapter covers:

- The Power Sources
- Turning on the Computer
- Power Plans
- Power-Saving States
- Configuring the Power Buttons
- Battery Information

The computer uses enhanced power saving techniques to give the operating system (OS) direct control over the power and thermal states of devices and processors. For example, this enables the OS to set devices into low-power states based on user settings and information from applications.

OS Note

Power management functions will vary slightly depending on your operating system. For more information it is best to refer to the user's manual of your operating system.

(Note: All pictures used on the following pages are from the *Windows Vista* OS.)

Hibernate Mode In Windows Vista SP1

If you are using *Windows Vista SP1* with 4GB RAM installed, see page 8 - 12 for information on Hibernate.

The Power Sources

The computer can be powered by either an AC/DC adapter or a battery pack.

AC/DC Adapter

Use only the AC/DC adapter that comes with your computer. The wrong type of AC/DC adapter will damage the computer and its components.

- 1. Attach the AC/DC adapter to the DC-in jack on the left of the computer.
- 2. Plug the AC power cord into an outlet, and then connect the AC power cord to the AC/DC adapter.
- 3. Raise the lid/LCD to a comfortable viewing angle.
- 4. Press the power button to turn "On".

Battery

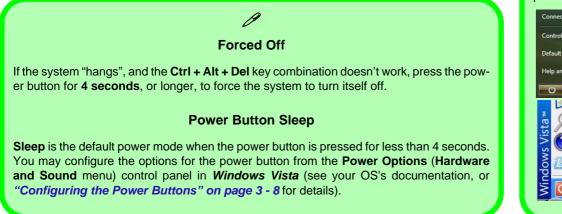
The battery allows you to use your computer while you are on the road or when an electrical outlet is unavailable. Battery life varies depending on the applications and the configuration you're using. To increase battery life, let the battery discharge completely before recharging (see "How do I completely discharge the battery?" on page 3 - 14).

We recommend that you do not remove the battery. For more information on the battery, please refer to "*Battery Information*" on page 3 - 10.

Turning on the Computer

Now you are ready to begin using your computer. To turn it on simply press the power button on the front panel.

When the computer is on, you can use the power button as a Sleep/Hibernate hotkey button when it is pressed for less than 4 seconds (pressing and holding the power button for longer than this will force the computer to shut down). Use **Power Op**tions (Hardware and Sound menu) control panel in Windows Vista to configure this feature



Shut Down

Note that you should always shut your computer down by choosing the Shut Down command from the Lock Button Menu in Windows Vista. This will help prevent hard disk or system problems.



Power Management

Resuming Operation

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See **Table 3 - 1**, **on page 3 - 9** for information on how to resume from a power-saving state.

Password

It is recommended that you enable a password on system resume in order to protect your data.

Figure 3 - 1 **Power Plan** Advanced Settings

Power Plans

The computer can be configured to conserve power by means of **power plans**. You can use (or modify) an existing **power plan**, or create a new one.

The settings may be adjusted to set the **display** to turn off after a specified time, and to send the computer into **Sleep** after a period of inactivity.

Click *Change plan settings* and then click *Change advanced power settings* to access further configuration options in **Advanced Settings**.

| Change settings for the p Choose the sleep and display set | lan: My Plan 1 | • 4 Search | ٩ | Advanced settings Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power. |
|---------------------------------------------------------------|----------------|-----------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Turn off the display: | 0n bat | very Plugged in | - | Change settings that are currently unavailable My Created PLan [Active] Additional settings |
| Put the computer to sleep: | 15 minutes | • 1 hour | • | ☐ Require a password on wakeup On battery Yes ▼ Plugged in: Yes |
| Change advanced power setting: | > | Save chan | ges Cancel | □ Hard disk □ Turn off hard disk after On battery: 10 Minutes Plugged in: 20 Minutes Wireless Adapter Settings |
| | | | | Restore plan defaults |

Each *Windows* **power plan** will also adjust the processor performance of your machine in order to save power. This is worth bearing in mind if you are experiencing any reduced performance (especially under DC/battery power).

Choose **High performance** for maximum performance when the computer is powered from an AC power source. Choose the **Power saver** (bear in mind that this scheme may slow down the overall performance of the computer in order to save power) for maximum power saving when the computer is battery (DC power) powered.

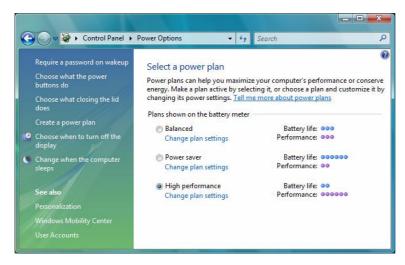


Figure 3 - 2 **Power Plans**

Power Management

Power Button

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The **Power Button** (in the Start Menu (in Classic View use the Shut Down button (i)) can be used to send the computer into a power-saving state.

Sleep Mode & Mobile PC Battery

A mobile PC in **Sleep** uses very little battery power.

After an extended period of time the computer will save any open documents and applications to hard disk.

Power-Saving States

You can use power-saving states to stop the computer's operation and restart where you left off. **Sleep** is the default power-saving state in *Windows Vista*.

Earlier versions of *Windows* used Stand By and Hibernate as system power-saving states. *Windows Vista* combines the features of Stand By and Hibernate into the default **Sleep** power-saving state.

Sleep

In **Sleep** all of your work, settings and preferences are saved to memory before the system sleeps. When you are not using your computer for a certain length of time, which you specify in the operating system, it will enter **Sleep** to save power.

The PC wakes from **Sleep within seconds** and will return you to where you last left off (what was on your desktop) without reopening the application(s) and file(s) you last used.

If your mobile PC in **Sleep** is running on battery power the system will use only a minimum amount of power. After an extended period the system will save all the information to the hard disk and shut the computer down before the battery becomes depleted.

Hibernate

Hibernate uses the least amount of power of all the power-saving states and saves all of your information on a part of the hard disk before it turns the system off. If a power failure occurs the system can restore your work from the hard disk; if a power failure occurs when work is saved only to memory, then the work will be lost. **Hibernate** will also return you to where you last left off within seconds. You should put your mobile PC into **Hibernate** if you will not use the computer for a period of time, and will not have the chance to charge the battery.

Shut Down

You should **shut down** the computer if you plan to install new hardware (don't forget to remove the battery and follow all the safety instructions in **Chapter 6**), plan to be away from the computer for several days, or you do not need it to wake up and run a scheduled task. Returning to full operation from **shut down** takes longer than from **Sleep** or **Hibernate**.





If you are using *Windows Vista SP1* with 4GB RAM installed, see page 8 - 12 for information on Hibernate.

Figure 3 - 3 Lock Button Menu

Power Management

Password Protection

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It is recommended that you enable a password on wake up in order to protect your data.

However you can disable this setting from the **Power Options** menu by clicking **Require a password on wakeup** in the left menu, and selecting the options (click **Change settings that are currently unavailable**).

> Figure 3 - 4 Power Options Define Power Buttons

Configuring the Power Buttons

The power/sleep button (Fn + F4 key combo) and closed lid may be set to send the computer in to a power-saving state.

| C 🗢 😺 🕨 Control Panel 🕨 Power Options 🕨 Syste | m Settings | ✓ 4→ Search | Q |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------|---|
| Define power buttons and turn or Choose the power settings that you want fo page apply to all of your power plans. Change settings that are currently unava Power and sleep buttons and lid settings | r your computer. The changes | you make to the settings on this | |
| When I press the power button: | Sleep Do nothing | Sleep | |
| When I press the sleep button: | Sleep Hibernate Shut down | Sleep 🔻 | |
| When I close the lid: | Sleep 👻 | Sleep | |
| Password protection on wakeup (iii) Require a password (recommended) | | | 2 |
| When your computer wakes from slee password to unlock the computer. <u>Cra</u> | | | |
| Don't require a password When your computer wakes from slee locked. | p, anyone can access your dat | a because the computer isn't | |
| | | Save changes Cancel |] |

Resuming Operation

You can resume operation from power-saving states by pressing the power button, or in some cases pressing the sleep button (Fn + F4 key combo).

| Power Status | lcon ⊕_/(၂) Color | To Resume |
|--------------------|------------------------|--------------------------------------------|
| Power Off | Off | Press the Power Button |
| Sleep | Blinking Green | Press the Power Button |
| | Billiking Green | Press the Sleep Button (Fn + F4 Key Combo) |
| Hibernate | Off (battery) | Press the Power Button |
| | Orange (AC/DC adapter) | Tiess the Fower Button |
| Display Turned Off | Green | Press a Key or Move the Mouse/Touchpad |
| | | |

Ø

Power Button

When the computer is on, you can use the power button as a Sleep/Hibernate/Shut Down hot key button when it is pressed for less than **4 seconds** (pressing and holding the power button for longer than this will force the computer to shut down).

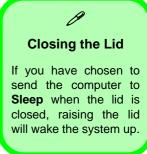


Table 3 - 1 **Resuming Operation**

3.75G/HSPA Modules & System Wake Up

D

Note that the 3.75G modules **DO NOT** support system wake up on 3.75G/HSPA modem activity.

Configuring the Power Buttons 3 - 9

Power Management



When the battery is critically low, immediately connect the AC/DC adapter to the computer or save your work, otherwise, the unsaved data will be lost when the power is depleted.

Figure 3 - 5 Battery Icon (Taskbar) & Battery Advanced Settings

Battery Information

Please follow these simple guidelines to get the best use out of your battery.

Battery Power

Your computer's battery power is dependent upon many factors, including the programs you are running, and peripheral devices attached. You can set actions to be taken (e.g. Shut down, Hibernate etc.), and set critical and low battery levels from **power plan Advanced Settings** (see *Figure 3 - 1 on page 3 - 4*).

Click the battery icon **D** in the taskbar to see the current battery level and charge status.

| 1 | 54% available (plugged in, charging) |
|-------|---------------------------------------------------|
| Selec | t a power plan: |
| 0 N | /ly Plan 1 |
| P | ower saver |
| © ⊢ | ligh p <mark>erformance</mark> |
| | Learn how to conserve power More power options |
| | Windows Mobility Center |



Conserving Battery Power

- Use a **power plan** that conserves power (e.g **Power saver**), however note that this may have an affect on computer performance.
- Lower the brightness level of the LCD display. The system will decrease LCD brightness slightly to save power when it is not powered by the AC/DC adapter.
- Reduce the amount of time before the display is turned off.
- Close wireless, Bluetooth, modem or communication applications when they are not being used.
- Disconnect/remove any unnecessary external devices e.g. USB devices, ExpressCards etc.

Battery Life

Battery life may be shortened through improper maintenance. To optimize the life and improve its performance, fully discharge and recharge the battery at least once every 30 days.

We recommend that you do not remove the battery yourself. If you do need to remove the battery for any reason (e.g. long term storage) see "*Removing the Battery*" *on page 6 - 3*.

New Battery

Always completely discharge, then fully charge, a new battery (see "*Battery FAQ*" *on page 3 - 14* for instructions on how to do this).

Recharging the Battery with the AC/DC Adapter

The battery pack automatically recharges when the AC/DC adapter is attached and plugged into an electrical outlet. If the computer is powered on, and in use, it will take several hours to fully recharge the battery. When the computer is turned off but plugged into an electrical outlet, battery charge time is less. (Refer to "System Map: LCD Panel Open - Models G & H" on page 1 - 11 for information on the battery charge status, and to "Battery Information" on page 3 - 10 for more information on how to maintain and properly recharge the battery pack.)

Proper handling of the Battery Pack

- DO NOT disassemble the battery pack under any circumstances
- DO NOT expose the battery to fire or high temperatures, it may explode
- DO NOT connect the metal terminals (+, -) to each other

之 Damaged Battery Warning

Should you notice any physical defects (e.g. the battery is bent out of shape after being dropped), or any unusual smells emanating from the notebook battery, shut your computer down immediately and contact your service center. If the battery has been dropped we do not recommend using it any further, as even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire. It is recommended that you replace your computer battery every two years.

X

Caution

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

Battery FAQ

How do I completely discharge the battery?

Use the computer with battery power until it shuts down due to a low battery. Don't turn off the computer even if a message indicates the battery is critically low, just let the computer use up all of the battery power and shut down on its own.

- 1. Save and close all files and applications.
- 2. Create a power plan for discharging the battery and set all the options to Never.
- 3. Click **Change plan settings** (after saving it) and click **Change advanced power** settings.

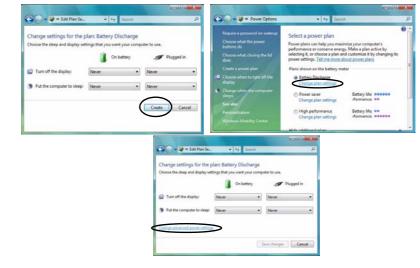


Figure 3 - 6 **Power Plan Create**

- 4. Scroll down to **Battery** and click + to expand the battery options.
- 5. Choose the options below (click **Yes** if a warning appears):

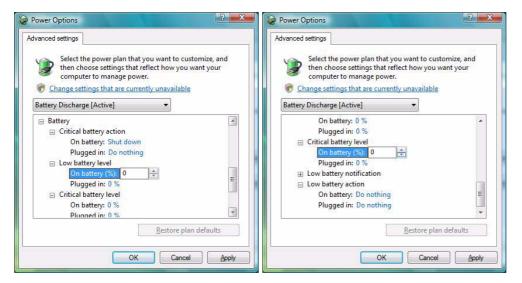


Figure 3 - 7 Power Options Advanced Settings -Battery

- Low battery levels = 0%
- Critical battery Levels = 0%
- Low battery action = Do Nothing
- Critical battery action (On battery) = Shut Down
- Critical battery action (Plugged in) = Do Nothing

Power Management

How do I fully charge the battery?

When charging the battery, don't stop until the LED charging indicator light changes from orange to green.

How do I maintain the battery?

Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges.

Chapter 4: Drivers & Utilities

This chapter deals with installing the drivers and utilities essential to the operation or improvement of some of the computer's subsystems. The system takes advantage of some newer hardware components for which the latest versions of most available operating systems haven't built in drivers and utilities. Thus, some of the system components won't be auto-configured with an appropriate driver or utility during operating system installation. Instead, you need to manually install some system-required drivers and utilities.

What to Install

The *Device Drivers & Utilities* + *User's Manual* disc contains the drivers and utilities necessary for the proper operation of the computer.

Table 4 - 1, on page 4 - 3 lists what you need to install and it is very important that the drivers are installed in the order indicated (see "Windows XP Driver Installation" on page E - 29 for Windows XP information or "Windows XP Driver Installation" on page E - 29 for Windows 7 information).

Module Driver Installation

The procedures for installing drivers for the PC Camera, Wireless LAN, 3.75G/HSPA and Fingerprint modules are provided in *"Modules & Options" on page 7 - 1*.

Drivers & Utilities

Windows Vista Driver Installation

Insert the *Device Drivers & Utilities + User's Manual* disc and click *Install Drivers/Option Drivers* (button).

If you wish to install the drivers manually see overleaf for the driver path information.



Figure 4 - 1 - Drivers Installer Screen 1

- Check the driver installation order from *Table 4 1*, on page 4 - 3 (the drivers must be installed in this order) which is the same as that listed in the *Drivers Installer* menu below.
- 2. Click to select the driver you wish to install, after installing each driver it will become grayed out. If you need to reinstall any driver, click the **Unlock** button (you should uninstall the driver first).
- 3. Follow the instructions for each individual driver installation procedure as listed on the following pages.

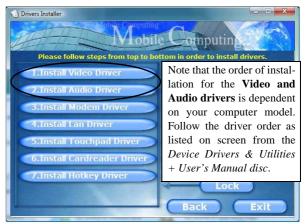


Figure 4 - 2 - Drivers Installer Screen 2

4 - 2 Windows Vista Driver Installation

| Driver - Windows Vista with Service Pack 1 | Page |
|--------------------------------------------|-------------|
| Video (see note below) | Page 4 - 5 |
| Audio (see note below) | Page 4 - 6 |
| Modem | Page 4 - 6 |
| LAN | Page 4 - 6 |
| TouchPad | Page 4 - 6 |
| CardReader | Page 4 - 6 |
| Hot Key | Page 4 - 6 |
| PC Camera Module | Page 7 - 3 |
| Wireless LAN Module | Page 7 - 14 |
| Windows Mobility Center | Page 7 - 18 |
| Fingerprint Reader Module | Page 7 - 36 |

Table 4 - 1 - Driver Installation

Video/Audio Driver Installation Note

Note that the order of installation for the **Video and Audio drivers** is dependent on your computer model. Follow the driver order as listed on screen from the *Device Drivers & Utilities + User's Manual* disc.

Manual Driver Installation

Click *Browse CD* (button) in the *Drivers Installer* application and browse to the executable file in the appropriate driver folder.

Windows Update

After installing all the drivers make sure you enable **Windows Update** in order to get all the latest security updates etc. (all updates will include the latest **hotfixes** from Microsoft). See *"Windows Update" on page 4 - 7* for instructions.

Windows Vista Service Pack 1

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Make sure you install **Windows Vista Service Pack 1** (or a Windows Vista version which includes Service Pack 1) **before installing any drivers**. Go to the Microsoft website for download details, or contact your service center.

Drivers & Utilities

Updating/Reinstalling Individual Drivers

If you wish to update/reinstall individual drivers it may be necessary to uninstall the original driver. To do this go to the **Control Panel** in the *Windows OS* and double-click the **Programs and Features** icon (**Programs > Uninstall a program**). Click to select the driver (if it is not listed see below) and click **Uninstall**, and then follow the on screen prompts (it may be necessary to restart the computer). Reinstall the driver as outlined in this chapter.

If the driver is not listed in the **Programs and Fea**tures menu:

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Double-click **Device Manager** (Hardware and **Sound > Device Manager**).
- 3. Double-click the **device** you wish to update/reinstall the driver for (you may need to click "+" to expand the selection).
- 4. Click **Driver** (tab) and click the **Update Driver** or **Uninstall** button and follow the on screen prompts.

User Account Control (Win Vista)

If a **User Account Control** prompt appears as part of the driver installation procedure, click **Continue** or **Allow**, and follow the installation procedure as directed.

Windows Security Message

If you receive a *Windows* security message as part of the driver installation process. Just click "*Install this driver software anyway*" or "*Install*" to continue the installation procedure.

You will receive this message in cases where the driver has been released after the version of *Windows* you are currently using. All the drivers provided will have already received certification for *Windows*.

New Hardware Found

If you see the message "**New Hardware Found**" during the installation procedure (**other than when outlined in the driver install procedure**), click **Cancel** to close the window, and follow the installation procedure.



The driver installation procedure outlined in this Chapter (and in **Chapter 7 Options & Modules**), are accurate at the time of going to press.

Drivers are always subject to upgrade and revision so the exact procedure for certain drivers may differ slightly. As a general guide follow the default on screen instructions for each driver (e.g. **Next > Next > Finish**) unless you are an advanced user. In many cases a restart is required to install the driver.

Driver Installation Procedure

Insert the *Device Drivers & Utilities + User's Manual disc* and click *Install Drivers* (button).

Video/Audio Driver Installation Note

Note that the order of installation for the **Video and Audio drivers** is dependent on your computer model. Follow the driver order as listed on screen from the *Device Drivers & Utilities + User's Manual* disc.

Video

1. Click **1./2.Install Video Driver > Yes**.

Models A, B, E & G (SiS):

- 2. Click **Yes** (click **Yes** if you want to view the ReadMe file).
- 3. Click **Yes** to restart the computer.

Models C, D, F & H (NVIDIA):

- 4. Click Next > Yes.
- 5. Click **Finish** to restart the computer.

Note: After installing the video driver go to the **Display Settings** control panel to adjust the video settings to the highest resolution.

Drivers & Utilities

Audio

- 1. Click 1./2.Install Audio Driver > Yes.
- 2. Click Next.
- 3. Click **Finish** to restart the computer.

Modem

- 1. Click **3.Install Modem Driver > Yes**.
- 2. Click OK.
- 3. Click **OK** to restart the computer.

OR

- 1. Click **3.Install Modem Driver > Yes**.
- 2. Click OK.
- 3. The modem is ready for dial-up configuration

Modem Country Selection

Go to the **Phone and Modem Options** control panel (**Hardware and Sound**) and make sure the modem country selection is appropriate for you.

LAN

- 1. Click **4.Install Lan Driver > Yes**.
- 2. Click Next.
- 3. Click **Finish > Finish** to restart the computer.
- 4. The network settings can now be configured.

TouchPad

- 1. Click **5.Install Touchpad Driver > Yes**.
- 2. Click Next.
- 3. Click **Finish > Restart Now** to restart the computer.

CardReader

- 1. Click 6.Install Cardreader Driver > Yes.
- 2. Click **Next > Install**.
- 3. Click Finish.

Hot Key

- 1. Click **7.Install Hotkey Driver > Yes**.
- 2. Click **Next > Install**.
- 3. Click **Finish > Finish** to restart the computer.

USB Hotfix

In order to resolve issues with USB devices (internal & external) in **4GB** *Windows Vista* systems we recommend that you install the USB hotfix driver provided (see "*USB Hotfix*" *on page 8 - 13*).

Windows Update

After installing all the drivers make sure you enable **Windows Update** in order to get all the latest security updates etc. (all updates will include the latest **hotfixes** from Microsoft).

To enable Windows Update make sure you are connected to the internet:

- 1. Click **Start**, and click **Control Panel** (or point to **Settings** and click **Control Panel**).
- 2. Click Check for updates (Security), or doubleclick Security Center and click Windows Update.
- 3. Double-click Check for updates (button).
- 4. The computer will now check for updates (you need to be connected to the internet).
- 5. Click **Install now** (button) to install the updates.

Optional Drivers

See the pages indicated for the driver installation procedures for any modules included in your purchase option.



Figure 4 - 3 - Drivers Installer - Option Drivers Menu

Drivers & Utilities

Bluetooth Module

Note: The operating system is the default setting for **Bluetooth** control in *Windows Vista*, and does not require a driver. See "*Bluetooth Module*" *on page* 7 - 2 for configuration instructions.

PC Camera Module

See the introduction in "*PC Camera Module*" on page 7 - 6, and check the installation procedure.

Wireless LAN Module

See the introduction in *"Wireless LAN Module" on* page 7 - 14, and check the installation procedure.

3.75G/HSPA Module

See the introduction in "3.75G/HSPA Module" on page 7 - 19, and check the installation procedure.

Fingerprint Reader Module

See the introduction in *"Fingerprint Reader Module"* on page 7 - 36, and check the installation procedure.

Chapter 5: BIOS Utilities

Overview

This chapter gives a brief introduction to the computer's built-in software:

Diagnostics: The **POST** (Power-On Self Test)

Configuration: The *Setup* utility

If your computer has never been set up, or you are making important changes to the system (e.g. hard disk setup), then you should review this chapter first and note the original settings found in *Setup*. Even if you are a beginner, keep a record of the settings you find and any changes you make. This information could be useful if your system ever needs servicing.

There is one general rule: Don't make any changes unless you are sure of what you are doing. Many of the settings are required by the system, and changing them could cause it to become unstable or worse. If you have any doubts, consult your service representative.

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BIOS Screens

Note that the BIOS screens pictured on the following pages are intended for guidance in setting up your system's BIOS.

BIOS versions are subject to constant change and revision, therefore your computer's actual those pictured on the following pages.

POST Screen

A

 BIOS information
 CPU type
 Memory status
 Enter Setup prompt appears only during POST

Note: The POST screen as pictured right is for guideline purposes only. The POST screen on your computer may appear slightly different. If you disable the Boottime Diagnostic Screen, the POST screen will not appear.

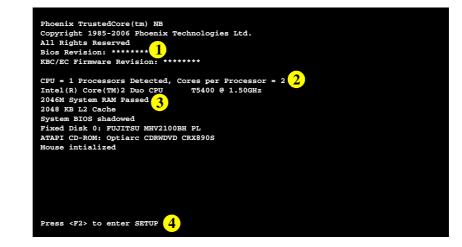
> *Figure 5 - 1* **POST Screen**

The Power-On Self Test (POST)

Each time you turn on the computer, the system takes a few seconds to conduct a **POST**, including a quick test of the on-board RAM (memory).

As the **POST** proceeds, the computer will tell you if there is anything wrong. If there is a problem that prevents the system from booting, it will display a system summary and prompt you to run *Setup*.

If there are no problems, the *Setup* prompt will disappear and the system will load the operating system. Once that starts, you can't get into *Setup* without rebooting.



Failing the POST

Errors can be detected during the **POST**. There are two categories, "fatal" and "non-fatal".

Fatal Errors

These stop the boot process and usually indicate there is something seriously wrong with your system. Take the computer to your service representative or authorized service center as soon as possible.

Non-Fatal Errors

This kind of error still allows you to boot. You will get a message identifying the problem (make a note of this message!) followed by the prompt:

- Press <F1> to resume
- <F2> to enter Setup

Press F1 to see if the boot process can continue. It may work, without the correct configuration.

Press **F2** to run the **Setup** program and try to correct the problem. If you still get an error message after you change the setting, or if the "cure" seems even worse, call for help.



and restore the **Set**up **Defaults** with **<F9>**.

The Setup Program

The **Phoenix Setup** program tells the system how to configure itself and manage basic features and subsystems (e.g. port configuration).

Entering Setup

To enter *Setup*, turn on the computer and press F2 during the POST. The prompt (*Press F2 to Enter Setup*) seen on page 5 - 2 is usually present for a few seconds after you turn on the system. If you get a "Keyboard Error", (usually because you pressed F2 too quickly) just press F2 again.

If the computer is already on, reboot using the Ctrl + Alt + Delete combination and then hold down F2 when prompted. The *Setup* main menu will appear.

Setup Screens

The following pages contain additional advice on **portions** of the *Setup*.

Along the top of the screen is a menu bar with menu headings. When you select a heading, a new screen appears. Scroll through the features listed on each screen to make changes to *Setup*.

Instructions on how to navigate each screen are in the box along the bottom of the screen. If these tools are confusing, press **F1** to call up a **General Help** screen, and then use the arrow keys to scroll up or down the page.

The **Item Specific Help** on the right side of each screen explains the highlighted item and has useful messages about its options.

If you see an arrow \blacktriangleright next to an item, press **Enter** to go to a sub-menu on that subject. The sub-menu screen that appears has a similar layout, but the **Enter** key may execute a command.

Setup Menus

The **Setup** menus shown in this section are for **reference** only. Your computer's menus will indicate the configuration appropriate for your model and options.

Main Menu

Figure 5 - 2 Main Menu

| | PhoenixBIOS S | etup Utility | 7 |
|------------------------------------------------------------------------------|---------------------------|---------------|---------------------------------------------------------------------------------------|
| Main Adva | nced Security | Boot | Exit |
| System Time: | [<mark>22</mark> :12:05] | | Item Specific Help |
| System Date: | [10/21/2009] | | |
| SATA Port 1 | [FUJITSU MHV2100E | BH PL] | |
| SATA Port 2 | [Optiarc CDRWDVD | CRX8] | <pre><tab>, <shift tab="">, or <enter> selects field.</enter></shift></tab></pre> |
| System Memory | 633 KB | | |
| Extended Memory | 2045 MB | | |
| BIOS Revision | ***** | | |
| KBC/EC Firmware Revisi | on ******* | | |
| VGA Card: | ****** | | |
| VBIOS Revision: | ***** | | |
| VBIOS Build Date: | ****** | | |
| F1 Help $\wedge \downarrow$ Selec Esc Exit $\leftarrow \rightarrow$ Selec | | Change Values | F9 Setup Defaults enu F10 Save and Exit |

System Time & Date (Main Menu)

The hour setting uses the 24-hour system (i.e., $\emptyset\emptyset$ = midnight; 13 = 1 pm). If you can change the date and time settings in your operating system, you will also change these settings. Some applications may also alter data files to reflect these changes.

5

SATA Port 1/2 (Main Menu)

Pressing **Enter** opens the sub-menu to show the configuration of a optical Device/ HDD on the computer's SATA Port 1/2. Use the *Auto* (Type:) setting to have the items configured automatically for you.

System/Extended Memory (Main Menu)

This item contains information on the system memory, and is not user configurable. The system will auto detect the amount of memory installed.

BIOS Revision/KBC/EC Firmware Revision (Main Menu)

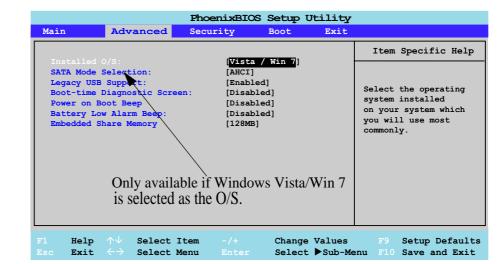
This item contains information on the current BIOS and firmware versions.

VGA Card/VBIOS Revision/VBIOS Build Date (Main Menu) Models C, D, F & H Only

This item contains information on the video card installed and the video BIOS.

Figure 5 - 3 Advanced Menu

Advanced Menu



Installed O/S (Advanced Menu)

This setting tells the computer what kind of operating system you're using. Make sure you choose the correct setting for your O/S in order to prevent system problems. Note: If you select the *Vista/Win* 7 O/S then the **SATA Mode Selection** menu will become available. If you are installing the *Windows XP* O/S make sure you have set the appropriate operating system here in order to prevent system problems.

SATA Mode Selection (Advanced Menu)

This menu is only available if you select the **Vista** O/S as your operating system. You can configure SATA (Serial ATA) control to operate in either **IDE** (native/ compatible) or **AHCI** (Advanced Host Controller Interface) modes from this menu. The **SATA mode** should be set to **AHCI** mode for this system (unless you are sure your hard disk can only operate in **IDE** mode). If you are unsure of the mode your hard disk supports contact your service center.

Legacy USB Support (Advanced Menu)

Use this menu item to enable/disable the support for Legacy Universal Serial Bus in non-USB aware operating systems.

Boot-time Diagnostic Screen (Advanced Menu)

Use this menu item to enable/disable the Boot-time Diagnostic Screen.

Power on Boot Beep (Advanced Menu)

Use this menu item to enable/disable the beep as the computer starts up.

Battery Low Alarm Beep (Advanced Menu)

Use this menu item to enable/disable the battery low alarm beep.

Embedded Shared Memory (Advanced Menu)

Models A, B, E & G Only

Use this menu item to change the amount of shared memory available (**128MB** OR **256MB**) to the graphics system for **SiS** video only (**Models A, B, E & G**).

Security Menu

PhoenixBIOS Setup Utility Main Advanced Security Exit Boot Item Specific Help Supervisor Password Is: Clear User Password Is: Clear Supervisor Password controls access to the [Enter] setup utility. Set User Password [Enter] Password on boot: [Disabled] Fixed disk boot sector: [Normal] Help Select Item Change Values Setup Defaults Exit Select Menu Select Sub-Menu Save and Exit

Security Menu

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The changes you make here affect the access to the **Setup** utility itself, and also access to your machine as it boots up after you turn it on. These settings do not affect your machine or network passwords which will be set in your software OS.

> *Figure 5 - 4* **Security Menu**

Set Supervisor Password (Security Menu)

You can set a password for access to the **PhoenixBIOS Setup Utility**. This will not affect access to the computer OS, (only the **PhoenixBIOS Setup Utility**).

Set User Password (Security Menu)

You can set a password for user mode access to the **PhoenixBIOS Setup Utility**. This will not affect access to the computer OS, (only the *Setup* utility) unless you choose to set a *Password on Boot* (see below). Many menu items in the **Phoenix-BIOS Setup Utility** cannot be modified in user mode. You can only set the user password after you have set the supervisor password.

Password on boot: (Security Menu)

Specify whether or not a password should be entered to boot the computer (you may only set a password on boot if a supervisor password is enabled). If "*Enabled*" is selected, only users who enter a correct password can boot the system (see the warning in the sidebar). The default setting is "*Disabled*".

Fixed disk boot sector (Security Menu)

If you choose "**Write-Protect**" this will protect against viruses being written to the hard disk boot sector (this is not a substitute for installing an anti-virus program - see "*Viruses*" on page 8 - 4).

Note: To clear existing passwords press **Enter** and type the existing password, then press **Enter** for the new password (without typing any password entry) and **Enter** again to confirm the password clearance.

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Password Warning

If you set a boot password (Password on boot is "Enabled"), **NEVER** forget your password.

The consequences of this could be serious. If you cannot remember your boot password you must contact your vendor and you may lose all of the information on your hard disk.

Boot Menu

送 BIOS Screens

Note that the BIOS screens pictured on these pages are intended for guidance in setting up your system's BIOS.

BIOS versions are subject to constant change and revision, therefore your computer's actual screens may appear slightly different from those pictured on these pages.

> *Figure 5 - 5* **Boot Menu**

| Main | Advanced | PhoenixBIOS Security | Setup Ut Boot | ility Exit | |
|--------------------------------------------------------------------|----------|-------------------------------|------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1: 2: 3: 4: 5: 6: 7: 8: 8: Exclude : | | | | | Item Specific Help Keys used to view or configure devices: Up and Down arrows select a device. <+> and <-> moves the device up or down. <>> exclude or include the device to boot. <shift +="" 1=""> enables or disables a device. <1 - 4> loads default boot sequence.</shift> |
| | - | ect Item -/+ ect Menu Ente | | nge Values ect ÞSub-Me | - |

When you turn the computer on it will look for an operating system (e.g. *Windows Vista*) from the devices listed in this menu, and **in this priority order**. If it cannot find the operating system on that device, it will try to load it from the next device in the order specified in the **Boot priority order**. Item specific help on the right is available to help you move devices up and down the order.

Exit Menu 5 - 13

BIOS Utilities

Exit Menu

| | | | Phoer | nixBIOS | Setup | Utility | _ |
|---------------------------------------------------------------|-------------------------------|----------|--------|---------|-------|---------|--------------------------------------------------------|
| Main | Adva | anced | Securi | ty | Boot | Exit | |
| | | | | | | | Item Specific Help |
| Exit Savi Exit Disc Load Setu Discard C Save Char | arding up Defau Changes | Changes | | | | | Exit System Setup and save your changes to CMOS. |
| Helr | A 1 | Select I | | | | | Setup Defaults |

Choosing to *Discard Changes*, or *Exit Discarding Changes*, will wipe out any changes you have made to the *Setup*. You can also choose to restore the original *Set-up* defaults that will return the *Setup* to its original state, and erase any previous changes you have made in a previous session.

Figure 5 - 6 Exit Menu

Chapter 6: Upgrading The Computer

Overview

This chapter contains information on upgrading the computer. Follow the steps outlined to make the desired upgrades. If you have any trouble or problems you can contact your service representative for further help. Before you begin you will need:

- A small crosshead or Phillips screwdriver
- A small regular slotted (flathead) screwdriver
- An antistatic wrist strap

Before working with the internal components you will need to wear an antistatic wrist strap to ground yourself because static electricity may damage the components.

The chapter includes:

- Removing the Battery
- Upgrading the Hard Disk Drive
- Upgrading the Optical (CD/DVD) Device
- Upgrading the System Memory (RAM)

Please make sure that you review each procedure before you perform it.

Warranty Warning Please check with your service representative before undertaking any upgrade procedures to find out if this will VOID your warranty.

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Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

When Not to Upgrade

These procedures involve opening the system's case, adding and sometimes replacing parts.

You should not perform any of these upgrades if:

- Your system is still under warranty or a service contract
- You don't have all the necessary equipment
- You're not in the correct environment
- You doubt your abilities

Under any of these conditions, contact your service representative to purchase or replace the component(s).

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Removal Warning

When removing any cover(s) and screw(s) for the purposes of device upgrade, remember to replace the cover(s) and screw(s) before turning the computer on.

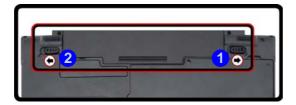
Upgrading the Processor

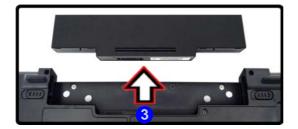
If you want to upgrade your computer by replacing the existing processor with a faster/new one you will need to contact your customer service representative. We recommend that you do not do this yourself, since if it is done incorrectly you may damage the processor or mainboard.

Removing the Battery

If you are confident in undertaking upgrade procedures yourself, for safety reasons it is best to remove the battery.

- 1. Turn the computer off, and turn it over.
- 2. Slide the latch (1) in the direction of the arrow.
- 3. Slide the latch (2) in the direction of the arrow, and hold it in place.
- 4. Slide the battery out in the direction of the arrow **3**.





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Warranty Warning

Please check with your service representative before undertaking any upgrade procedures to find out if this will VOID your warranty.

Figure 6 - 1 Battery Removal



New HDD's are blank. Before you begin make sure: You have backed up any data you want to keep from your old HDD. You have all the CD-ROMs and FDDs required to install your operating system and programs. If you have access to the in-

ternet, download the latest application and hardware driver updates for the operating system you plan to install. Copy these to a removable medium.

Upgrading the Hard Disk Drive

The hard disk drive can be taken out to accommodate other 2.5" serial (SATA) hard disk drives with a height of 9.5mm (h) (see "*Storage*" on page D - 4). Follow your operating system's installation instructions, and install all necessary drivers and utilities (see "*Windows Vista Driver Installation*" on page 4 - 2), when setting up a new hard disk.

- 1. Turn off the computer, and turn it over and remove the battery.
- 2. Locate the hard disk bay cover and loosen screws (1 & (2).
- 3. Remove the hard disk bay cover 3.

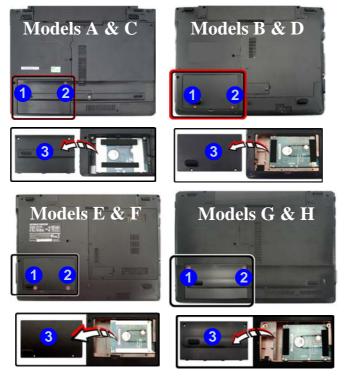


Figure 6 - 2 Hard Disk Bay Cover Removal

Upgrading the Hard Disk Drive 6 - 5

- 4. Grip the tab and slide the hard disk in the direction of arrow **4**.
- 5. Lift the hard disk out of the bay **5**.

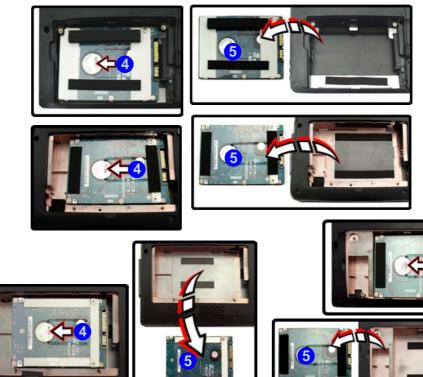
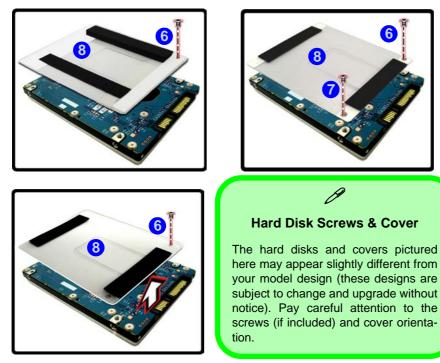


Figure 6 - 3 HDD Removal

- 6. Remove the screw(s) **6** / **6** & **7** and the adhesive cover **8** (depending on your model type/design).
- 7. Reverse the process to install a new hard disk drive (do not forget to replace all the screws and covers).





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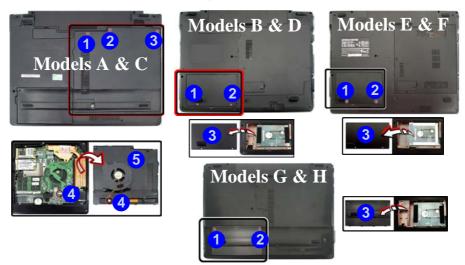
Fan Cable & Cover

Make sure you reconnect the fan cable **4** before screwing down the bay cover. Note the information on replacing the RAM & CPU bay cover in **"Cover Pins" on page 6 - 14**.

Figure 6 - 5 Removing the RAM & CPU Cover/HDD Cover

Upgrading the Optical (CD/DVD) Device

- 1. Turn off the computer, and turn it over and remove the battery.
- 2. Models A & C: Locate the RAM & CPU bay cover and remove screws 1 3.
- 3. Carefully (a fan and cable are attached to the under side of the cover) lift up the bay cover.
- 4. Carefully disconnect the fan cable (4), and remove the cover (5). OR
- 5. Models B H: Locate the hard disk bay cover and loosen screws (1 & (2).
- 6. Remove the hard disk bay cover 3.



6 - 8 Upgrading the Optical (CD/DVD) Device

- 7. Remove the screw at point 6, and use a screwdriver to carefully push out the optical device at point 7.
- 8. Reverse the process to install the new device.

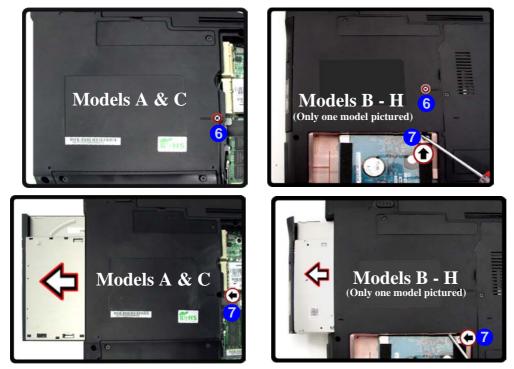


Figure 6 - 6 **Removing the Optical Device**

Upgrading the Optical (CD/DVD) Device 6 - 9

Upgrading the System Memory (RAM)

The computer has **two** memory sockets for 200 pin Small Outline Dual In-line (SO-DIMM) **DDRII** (**DDR2**) type memory modules (see "*Memory*" *on page D - 3* for details of supported module types).

- 1. Turn off the computer, and turn it over and remove the battery.
- 2. Locate the RAM & CPU bay cover and remove screws 1 3.

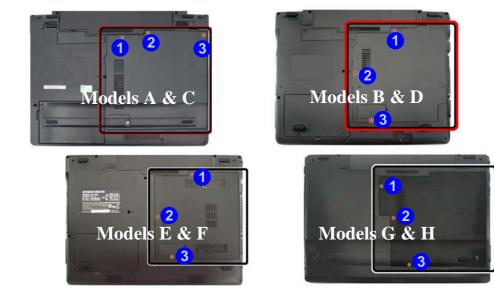


Figure 6 - 7 **RAM & CPU Bay Screws**

6 - 10 Upgrading the System Memory (RAM)

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- Carefully (a fan and cable are attached to the under side of the cover) lift up the bay cover.
- 4. Carefully disconnect the fan cable (4), and remove the cover (5).

3.

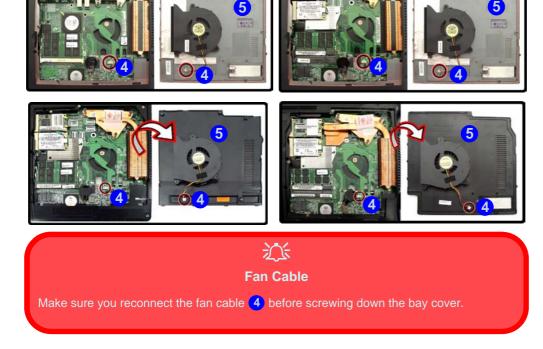
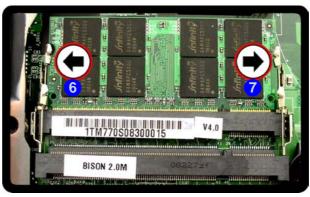


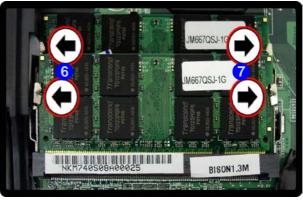
Figure 6 - 8

CPU/RAM Bay Cover Removed

Gently pull the two release latches on the sides of the memory socket in the direction indicated by the arrows (6 & 7) in *Figure 6 - 9*.

Figure 6 - 9 **RAM Module Release Latches**





6 - 12 Upgrading the System Memory (RAM)

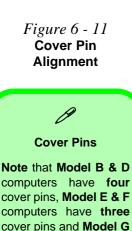
6. The RAM module will (8) pop-up, and you can remove it.





Figure 6 - 10 **RAM Module Removal**

- 7. Pull the latches to release the second module if necessary.
- 8. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
- 9. The module's pin alignment will allow it to only fit one way. Make sure the module is seated as far into the slot as it will go. DO NOT FORCE the module; it should fit without much pressure.
- 10. Press the module in and down towards the mainboard until the slot levers click into place to secure the module.



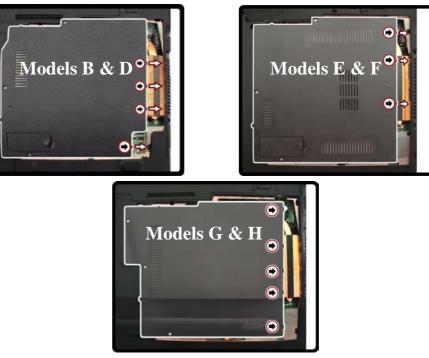
& H computers have

five cover pins. These pins need to be aligned with slots in the case to insure a proper cover fit,

before screwing down

the bay cover

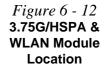
11. Replace the bay cover (see sidebar) and screws (make sure you reconnect the fan cable before screwing down the bay cover).



12. Restart the computer to allow the BIOS to register the new memory configuration as it starts up.

3.75G/HSPA and WLAN Module Location

The picture below indicates the location of the 3.75G/HSPA and WLAN modules for your information. Note that the 3.75G/HSPA module is a factory option, and the WLAN module is an option. Neither of these modules are user upgradeable/replace-able; for more information contact your customer service representative.



 WLAN Module
 3.75G/HSPA Module

Note: Only one model is pictured here however the location of the modules are the same for all the models.



Chapter 7: Modules & Options Overview

This chapter contains information on the following modules, which may come with your computer, depending on the configuration purchased. If you are unsure please contact your service representative.

- Bluetooth Module
- PC Camera Module
- Wireless LAN Module
- 3.75G/HSPA Module
- Fingerprint Reader Module



Important Notice

If your purchase option includes both **Wireless LAN** and **3.75G/HSPA** modules, then the appropriate antennas will be installed. Note that In order to comply with FCC RF exposure compliance requirements, the antenna must not be co-located or operate in conjunction with any other antenna or transmitter.

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Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are **OFF** if you are using the computer aboard aircraft.

Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the **Fn + F12** key combination to toggle power to the Bluetooth module, and check the LED indicator to see if the module is powered on or not (see Table 1 - 6, on page 1 - 17/ Table 1 - 4, on page 1 - 12).

Bluetooth Module

The operating system's **Bluetooth Devices** control panel is used to configure the Bluetooth settings in *Windows Vista*, and therefore does not require a driver. Use the Fn + F12 key combination (see *"Function/Hot Key Indicators" on page 1 - 17*) to toggle power to the Bluetooth module.

Bluetooth Data Transfer

Note that the transfer of data between the computer and a Bluetooth enabled device is supported **in one direction only (simultaneous data transfer is not supported)**. Therefore if you are copying a file from your computer to a Bluetooth enabled device, you will not be able to copy a file from the Bluetooth enabled device to your computer until the file transfer process from the computer has been completed.

Bluetooth Module & Resuming From Sleep Mode

The Bluetooth module's default state will be off after resuming from the **Sleep** power-saving state. Use the key combination (**Fn + F12**) to power on the Bluetooth module after the computer resumes from Sleep.

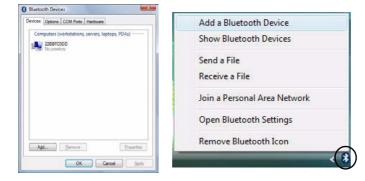
Bluetooth Configuration in Windows Vista

Setup your Bluetooth Device so the Computer Can Find it

- 1. Turn your Bluetooth device (e.g. PDA, mobile phone etc.) on.
- 2. Make the device discoverable (to do this check your device documentation).

To Turn the Bluetooth Module On

- 1. Press the **Fn + F12** key combination to power on the Bluetooth module.
- 2. A Bluetooth icon 📓 will appear in the taskbar (see sidebar).
- 3. You can then do any of the following to access the **Bluetooth Devices** control panel.
 - Double-click the icon 🕈 to access the Bluetooth Devices control panel.
 - Click Start, and click Control Panel (or point to Settings and click Control Panel), and then click Bluetooth Devices (Hardware and Sound).
 - Click/Right-click the icon 🕈 and choose an option from the menu.



Bluetooth Taskbar Icon

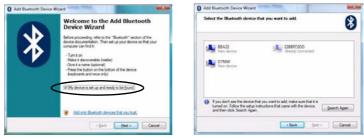
If you cannot see the Bluetooth icon in the taskbar, access the Bluetooth Devices control panel. Click Options (tab), and make sure that Show Bluetooth icon in the notification area check box (Connections) has a tick inside it.

Note that you will need to check the LED indicator to see if the module is powered on or not.

Figure 7 - 1 Bluetooth Devices & Click Icon Menu

To Add a Bluetooth Device

- 1. Access the Bluetooth Devices control panel.
- 2. Click **Options** (tab), and make sure that **Allow Bluetooth devices to connect to** *this computer* check box (**Connections**) has a tick inside it.
- 3. Click Devices (tab), and then click Add.
- 4. The Add Bluetooth Device Wizard will appear.
- 5. Click to select "My device is set up and ready to be found", and then click Next.



- 6. The *Wizard* will then search for any available Bluetooth devices within range.
- 7. Click to select the device you want to communicate with, and click Next.
- 8. Select an appropriate passkey option and click Next.

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|------------------------------------------|
| der fiel same with |
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| |
| |
| h device diver not. The documentation |
| Deniel |
| |

9. Click Finish.

Figure 7 - 2 Add Bluetooth Device Wizard

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Passkey Options

You can allow the system to choose a passkey for you. You will then be prompted to enter the generated passkey on your Bluetooth device.

Figure 7 - 3 **Passkey Option**

To Change Settings for the Bluetooth Device

- 1. Access the Bluetooth Devices control panel.
- 2. Click on the device you want to change and click Properties to:
 - Change the name of the device (click General, type a new name and click OK).
 - Enable/Disable a service (click Services, clear/tick the check box next to the service and click OK).

To Make your Computer Discoverable to Bluetooth Devices

- 1. Access the Bluetooth Devices control panel.
- 2. Click **Options**, and make sure that **Allow Bluetooth devices to find this computer** check box (**Discovery**) has a tick inside it.
- 3. Make sure that *Alert me when a new Bluetooth device wants to connect* check box (Connections) has a tick inside it, if you want to be notified when a Bluetooth device wants to connect.



Bluetooth Help

To get help on Bluetooth configuration and settings, select **Help and Support** from the **Start** menu. Type Bluetooth in the **Search Help** box, and select an item from the returned search results to get more information.

Figure 7 - 4 Bluetooth Devices Options



pages, for the latest updated information on the PC Camera driver, which may override the information provided here.

PC Camera Module

Before installing the **PC Camera** driver, make sure that the optional PC Camera is on. Use the Fn + F10 key combination (see *"Function/Hot Key Indicators" on page 1 - 17*) to toggle power to the PC Camera module. Make sure you install the drivers in the order indicated in *Table 4 - 1, on page 4 - 3*.

There are a number of different camera modules available with this computer model series. You will have the appropriate application installed for your camera. **Make sure you access the application via the WebCam desktop shortcut**.

PC Camera Driver Installation

- 1. Insert the *Device Drivers & Utilities* + *User's Manual* disc into the CD/ DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click **1.PC Camera, Web cam > Yes**.
- 4. Choose the language you prefer and click **Next > Install**.
- 5. Click **Finish** to restart the computer.
- 6. Run the camera application program from the **WebCam** desktop shortcut (if the hardware is turned off use the Fn + F10 key combination to turn it on again).



PC Camera Screen Refresh

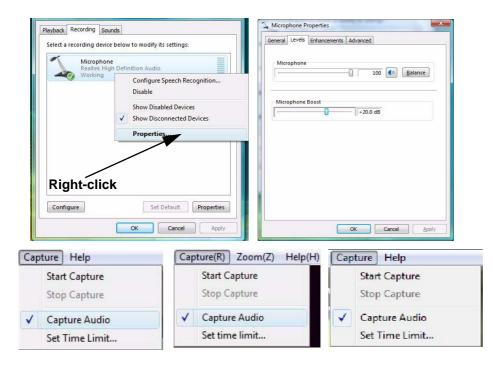
The PC Camera module supports a frame rate of 12 fps. If you find that the screen refresh rate is subject to lag or stuttering, then **reduce the window size**, or adjust the **Output Size** and/or **Color Space Compression**.

To reduce **Output Size** and/or **Color Space Compression** run the camera application, click **Options** and select **Video Capture Pin**. Adjust the settings from the appropriate pull-down menu.

PC Camera Audio Setup

If you wish to capture video & **audio** with your camera, it is necessary to setup the audio recording options in *Windows*.

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Click Sound 🕑 (Hardware and Sound).
- 3. Click **Recording** (tab).
- 4. Right-click **Microphone** (Realtek High Definition Audio) and make sure the item is not disabled.
- 5. Double-click Microphone (or select Properties from the right-click menu).
- 6. Click Levels (tab), and adjust the Microphone and Microphone Boost sliders to the level required.
- 7. Click **OK** and close the control panels.
- 8. Run the camera application program from the desktop shortcut.
- 9. Go to the **Devices/Device** menu heading and select **Microphone** (**Realtek...**) (it should have a tick alongside it).
- 10. Go to the **Capture** menu heading and select **Capture Audio** (it should have a tick alongside it).







You may pre-allocate the file size (**File > Allocate File Space**) for the capture file in the camera application.

Pre-allocating space on the hard disk can improve the capture quality (particularly of large capture files), by reducing the amount of work the hard disk has to do in finding space for the video data as it is being captured.

See also "Reducing Video File Size" on page 7 -11.

Camera Application

The WebCam application is a video viewer for general purpose video viewing and testing, and for capturing video files to .avi format.

- 1. Run the camera application from the desktop shortcut (it is recommended that you set the capture file before the capture process see Set Capture File below).
- 2. Go to the **Capture** menu heading (if you wish to capture audio check "*PC Camera Audio Setup*" on page 7 8) and select **Start Capture**.
- 3. Click **OK/Yes** (the file location will be displayed in the pop-up box) to start capturing the video, and press **Esc** to stop the capture (you can view the file using the **Windows Media Player**).

Set Capture File

Prior to capturing video files you may select the **Set Capture File..** option in the **File** menu, and set the file name and location before capture (this will help avoid accidentally overwriting files). Set the name and location then click **Open/Save**, then set the **"Capture file size:"** and click **OK**. You can then start the capture process as above.

Note the important information in "*Reducing Video File Size*" on page 7 - 11 in order to save file space, and help prevent system problems.

Reducing Video File Size

Note that capturing high resolution video files requires a substantial amount of disk space for each file. After recording video, check the video file size (right-click the file and select **Properties**) and the remaining free space on your hard disk (go to **My Computer**, right-click the hard disk, and select **Properties**). If necessary you can remove the recorded video file to a removable medium e.g. CD, DVD or USB Flash drive.

Note that the *Windows Vista* system requires a minimum of **15GB** of free space on the **C: drive** system partition. In order to prevent system problems it is recommended that you save the captured video file to a location other than the **C: drive** (see "*Set Capture File*" on page 7 - 10), limit the file size of the captured video (see "*Pre-Allocating File Space*" on page 7 - 10) or reduce video resolution (see below).

To Reduce Video Resolution Output Size:

- 1. Run the camera application program from the desktop shortcut.
- 2. Go to Options and scroll down to select Video Capture Pin....
- 3. Click the **Output Size** drop box and select a lower resolution size in order to reduce the captured file size.
- 4. Click OK.

Eliminating Screen Flicker

If you find that the video screen in the camera program is flickering, you can try to adjust the setting in the **Video Capture Filter** options.

- 1. Run the camera application from the desktop shortcut.
- 2. Go to Options and scroll down to select Video Capture Filter....
- 3. Click either 50Hz or 60Hz under Frequency/Anti Flicker/Powerline Frequency.

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Figure 7 - 6 Video Capture Filter

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The WebCam program allows you to zoom the camera in and out (note the zoom function is not available in all camera model applications).

Zoom(Z)

Zoom In Zoom Out

Help(H)

- Run the camera application from the desktop shortcut. 1.
- 2 Go to Zoom and select Zoom Out/Zoom In.

Zoom Out

Zoom In

Zoom Help

Taking Still Pictures

The WebCam program allows you to take still pictures.

- Run the camera application from the desktop shortcut. 1.
- 2. Go to Options and select Take Picture.
- 3 The picture (in JPEG format) will be placed in the **Snapshot** folder desktop (see sidebar).



Figure 7 - 7 Zoom/Setting

沃 **Snapshot Folder**

The Snapshot folder's detop. Do not move this folder or an error may appear when you try to take a still

If you accidentally delete or move the folder, you can folder on the desktop in order to capture the files.





The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the **Fn + F11** key combination to toggle power to the WLAN module, and check the indicator to see if the module is powered on or not (see *Table 1 - 6*, *on page 1 - 17/ Table 1 - 4*, *on page 1 - 12*).

Wireless LAN Module

If you have included a **802.11b/g WLAN module** in your purchase option, make sure that the Wireless LAN module is on before installing the driver.

Use the **Fn** + **F11 key combination** (see *"Function/Hot Key Indicators" on page 1* - *17*) to toggle power to the Wireless LAN module. Make sure you install the drivers in the order indicated in *Table 4 - 1, on page 4 - 3*.

802.11b/g Driver Installation

- 1. Make sure the module is powered on, then insert the *Device Drivers & Utilities* + *User's Manual* disc into the CD/DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click 2.Wireless Lan > Yes.
- 4. Choose the language you prefer and click Next.
- 5. Click **Next > Install**.
- 6. Click Finish.

Note: The operating system is the default setting for Wireless LAN control in *Windows Vista* (see overleaf).

Connecting to a Wireless Network

Make sure the Wireless LAN module is turned on.

1. Click the taskbar wireless icon and then click Connect to a network (or rightclick the icon and then click Connect to a network).

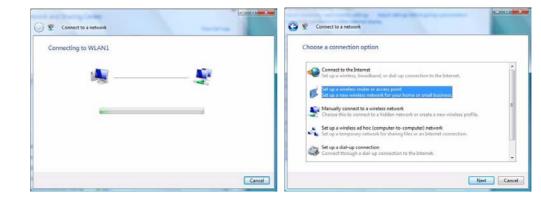


- 2. In the Show list, click to choose Wireless from the drop-down menu.
- 3. A list of currently available networks will appear.





- 4. Click a network, and then click **Connect**.
- 5. If you do not see a network you want to connect to, click **Set up a connection or network** (a list of options will appear allowing manual searching, and creating a new network).

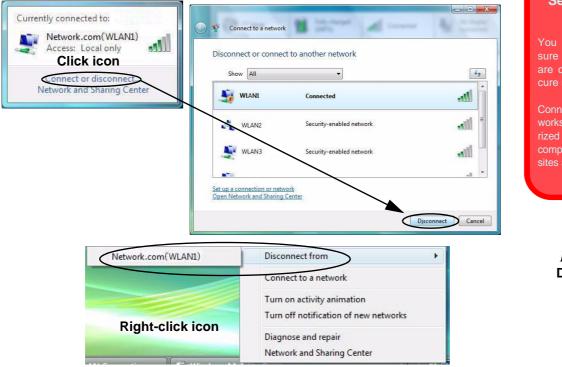


6. Move the cursor over the taskbar icon 🔁 to see the connection status (see below).



Figure 7 - 10 **Connecting**

Figure 7 - 11 Connection Status 7. To disconnect from the wireless network you can click the taskbar wireless icon , and then select **Connect or disconnect** to access the network menu, and click Disconnect (or **right-click** the icon , and then click **Disconnect from**).



Security Enabled Networks

You should try to make sure that any network you are connecting to is a secure network.

Connecting to unsecure networks may allow unauthorized access to your computer, documents, websites and files etc.

Figure 7 - 12 **Disconnecting**

Windows Mobility Center

The **Windows Mobility Center** control panel provides an easy point of access for information on battery status, power plans used and wireless device status etc.

To access the Windows Mobility Center:

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Double-click Windows Mobility Center (Mobile PC).
- 3. Click the button to **Turn wireless off/on**, or click the icon **to** access the network menu.

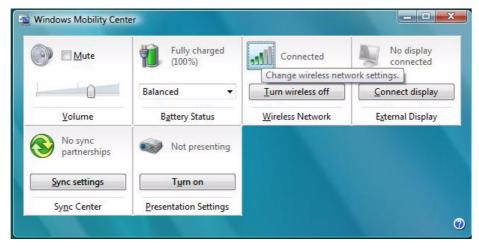


Figure 7 - 13 Windows Mobility Center

3.75G/HSPA Module

If you have included an **optional 3.75G/HSPA** (High Speed Packet Access) module (see "*Communication*" *on page D* - 5 for specification details) in your purchase option, you will have the appropriate application (**3G Watcher** or **Mobile Partner**) provided for your particular module. Follow the instructions on page 7 - 21 to install the USIM card (which will be provided by your service provider), and then install the application.

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Important Notice - 3.75G/HSPA & Bluetooth/Wireless LAN Modules

In order to comply with FCC regulations you should NOT operate the 3.75G/HSPA module and the Bluetooth/Wireless LAN modules at the same time as this may disrupt radio frequency, and cause interference. When the 3.75G/HSPA module is powered on, make sure that the Bluetooth/Wireless LAN modules are powered off.

3.75G/HSPA Module Options

There are **two optional** 3.75G/HSPA modules available for this series of computer models. Each module is supplied with the appropriate application software.

The module type supplied may depend upon the computer model purchased. Check with your service center for details.

Install the driver from the Drivers Installer menu and check the instructions for the appropriate application on the following pages.

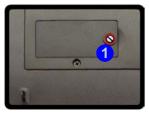
Before installing the **application**, make sure that the **3.75G/HSPA** module is on. Use the **Fn**+(**(**) **key combination** (see "*Function/Hot Key Indicators*" *on page 1* - *17*) **to toggle power to the 3.75G/HSPA module**. Make sure you install the drivers in the order indicated in *Table 4 - 1*, *on page 4 - 3*.

- **3G Watcher** See "*3G Watcher Application Installation*" on page 7 23 for driver installation information and "*Setting Up a Carrier Profile*" on page 7 24 for instructions on using the **3G Watcher** application.
- Mobile Partner See "Mobile Partner Application Installation" on page 7 30 for driver installation information and "Mobile Partner Application" on page 7 31 for instructions on using the Mobile Partner application.

1. Turn off the computer, and turn it over and remove the battery.

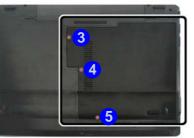
- 2. Access the SIMLOCK as follows:
- For **Models A F**: Locate the SIM card cover and loosen screw (1), and then remove the SIM card cover (2).
- For Models G & H: Locate the RAM & CPU bay cover and remove screws 3
 5 (the SIMLOCK is located at point 6), then carefully (a fan and cable are attached to the under side of the cover) lift up the bay cover. Carefully disconnect the fan cable 7, and remove the cover.

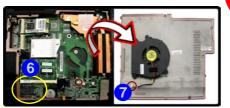
Models A - F





Models G & H





Fan Cable

Make sure you reconnect the fan cable **7** before screwing down the bay cover for **Models G & H**.

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Modules & Options

Power Safety Warning

Before you undertake any installation procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

Figure 7 - 14 SIM Card Cover/Bay Cover Removal

- 3. Insert the USIM card as you would into your mobile phone.
- 4. Slide the SIMLOCK towards the hinge in order to release the lock and lift it up.
- 5. Insert the USIM card as illustrated in (Figure 7 15) and close the SIMLOCK.

Figure 7 - 15 Insert the USIM Card



Note that the 3.75G modules **DO NOT** support system wake up on 3.75G/HSPA modem activity.

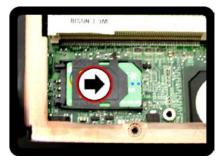
Figure 7 - 16 SIMLOCK Lock





6. Lock the SIMLOCK by pushing it in the direction of the arrow in *Figure 7 - 16* until it clicks into the lock position.





7 - 22 3.75G/HSPA Module

3G Watcher Application

With the **3.75G/HSPA** module and USIM card (supplied by your service provider) installed you may then install the **3G Watcher** application. The **3G Watcher** application allows you to directly access your HSPA internet service from the computer.

3G Watcher Application Installation

- Enable power to the module by pressing the Fn + key combination (the on screen icon will indicate the module's power status). If a *Found New Hardware* window appears, click **Cancel** in all windows that appear, and then proceed to install the driver as below.
- 2. Insert the *Device Drivers & Utilities* + *User's Manual* disc into the CD/ DVD drive.
- 3. Click **Option Drivers** (button).
- 4. Click **3.3G Driver > Yes**.
- 5. Click Next.
- 6. Click the button to accept the license agreement, and then click Install.
- 7. When the next screen appears **wait (about 2 minutes) until the 3G Watcher application appears on screen** (or you see the message "**Your devices are ready to use**") before clicking **Finish** (this allows the hardware to detect the 3.75G/HSPA module).



Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the **Fn** + key combination to toggle power to the 3.75G/HSPA module, and check the indicator to see if the module is powered on or not (see **Table 1** - 6, on page 1 - 17/ Table 1 - 4, on page 1 - 12).

Setting Up a Carrier Profile

Although the connection information is stored on the USIM card supplied by the service provider, you will need to set up the appropriate carrier profile in 3G Watcher.

- 1. Power on the **3.75G/HSPA** module using the **Fn** + we combination.
- Access the 3G Watcher application from the Start menu (Start > Programs/All Programs > Sierra Wireless > 3G Watcher), or by clicking the desktop icon
- 3. Click Tools and select Options.
- 4. Click **Profiles** and then click the **Add new profile** button **S**, and select **WWAN profile**.

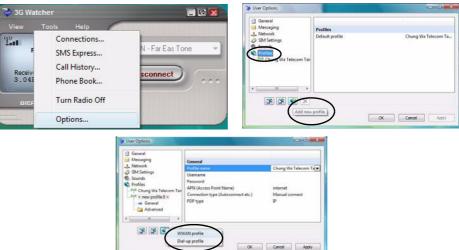




Figure 7 - 18

5. You can then enter a new profile name or choose a profile from the drop-down list provided by the software (see the **sidebars** for information on the profile details).

| <i>v</i> Information | Messaging Network SIM Settings Sounds Profiles (***) Chung Wa Telecom (************************************ | General | | |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| (and the sub- inder Advanced) menu, and then by of the fields to ppropriate infor- upplied by your ovider. | | Profile name Username Password APN (Access Point Name) Connection type (Autoconnect etc.) PDP type | Chung Wa Telecom Tat MTN Canieton- MTN Nigeria MTN South Africa MTNS My Profile NCC Netcom Norge New World Nova - Iceland NTC (New Telephone Co) | |
| | | General Options | Cancel Apply | |

6. Click **Apply > OK** to save the information.

Profile

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7. You can choose the profile from the pull-down menu.



User Options B **Profile Details** If you have chosen the profile from the dropdown list then most of the information in the General and Advanced tabs should be automatically filled in for you (however check with your service provider for the latest information as you may at least need to add in your Username and Password).

Figure 7 - 19 **Choose Profile**

Connecting to the Service Provider

- 1. Power on the **3.75G/HSPA** module using the **Fn** + we combination.
- You can access the 3G Watcher application from the Start menu (Start > Programs/All Programs > Sierra Wireless > 3G Watcher), or by clicking the desktop icon .
- 3. The software will run and display the service provider name (see "Setting Up a Carrier Profile" on page 7 24).



- 4. Click **Connect** to begin the connection process.
- 5. The **3G Watcher** application will then display the connection information in the window.



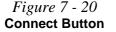


Figure 7 - 21 **Connecting** 6. When the connection is successful a taskbar notification will appear (as below).





- 7. You can then access the internet, download e-mail etc. as per any internet connection.
- 8. While you are connected the taskbar icon will be green **m** (it will be red **m** when the program is running but not connected).
- 9. To disconnect click the **Disconnect** icon.



Figure 7 - 23 3GWatcher Connected

- 10. The program will disconnect from the service provider.
- 11. The module will still be on, and you will need to press the **Fn** + key combination.

12. If you click the **3G Watcher** close icon **⊠** a message will be displayed asking you to click **OK** to confirm the program exit.



- Exiting the program DOES NOT turn off the 3.75G/HSPA module, and you will need to press the Fn + key combination to turn off the module (pay careful attention to this aboard aircraft - see "Wireless Device Operation Aboard Aircraft" on page 7 - 23).
- 14. If the module is on and the computer enters a power-saving state, then the power status of the module on resuming from the power-saving state will be as below:
- If the **3.75G/HSPA** module is on and the computer is **Shut Down or Restarted**; the module will be **off** when the computer starts up.
- If the **3.75G/HSPA** module is on and the computer enters **Sleep or Hibernate**; the module will be **off** when the computer resumes from sleep.

Figure 7 - 24 Exit Warning

Short Messaging Service

In addition to standard internet services you may also send and receive SMS text messages using the **3G Watcher** program, if your service supports SMS.

Reading SMS Messages

- 1. The SMS message indicator in the main window will notify you of any new messages received.
- 2. Double-click the icon is or select **Tools > SMS Express**.
- 3. Select the inbox folder and select any message to read it.
- 4. You cannot receive any new messages if the USIM card becomes full so you will need to delete some of the messages in order to fee up space on the USIM card.

Creating and Sending SMS Messages

- 1. Double-click the icon is or select **Tools > SMS Express**.
- 2. Select File > New Message or click the New button.
- 3. Enter the recipient's number in the **To..** field or click the **To..** button to select an entry from the phone book, and click the **Message** button.
- 4. Type in the message details in the message body area.
- 5. Click the **Send** button (or save the message to send later).

For more details on SMS see **3GWatcher Online Help** from the **Help > Help Top-ics** menu.



Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the **Fn** + key combination to toggle power to the 3.75G/HSPA module, and check the indicator to see if the module is powered on or not (see **Table 1** - 6, on page 1 - 17/ Table 1 - 4, on page 1 - 12).

Mobile Partner

With the **3.75G/HSPA** module and USIM card (supplied by your service provider) installed you may then install the **Mobile Partner** application. The **Mobile Partner** application allows you to directly access your HSPA internet service from the computer.

Mobile Partner Application Installation

- Enable power to the module by pressing the Fn + key combination (the on screen icon will indicate the module's power status). If a *Found New Hardware* window appears, click **Cancel** in all windows that appear, and then proceed to install the driver as below.
- 2. Insert the *Device Drivers & Utilities* + *User's Manual* disc into the CD/ DVD drive.
- 3. Click **Option Drivers** (button).
- 4. Click **3. 3G Driver > Yes**.
- 5. Choose the language you prefer and click **OK**.
- 6. Click I Agree (button) to accept the license agreement.
- 7. Click Next > Install.
- 8. Click **Finish** to restart the computer.
- Access the Mobile Partner application from the Start menu (Start > Programs/All Programs > Mobile Partner), or by double-clicking the Mobile Partner icon on the desktop.

Modules & Options

Mobile Partner Application

You will need to contact your service provider to obtain the exact details of how exactly to configure the settings on this page.

Profile Management

- Power on the **3.75G/HSPA** module using the **Fn** + we combination. 1.
- Access the Mobile Partner application from the Start menu (Start > Programs/ 2. All Programs > Mobile Partner), or by double-clicking the Mobile Partner icon on the desktop 🔝
- 3. If you have not created a profile, click **Tools** and select Options, and then click Profile Management.
- Click New New and input the appropriate information for Profile Name, APN 4. and Authentication etc. as supplied by your service provider.
- 5.
 - Click **Save** to save the profile.

| 🗀 General 🛅 Text Message | Dial-Up | |
|-----------------------------|------------------------------------------------------------------|---------|
| Profile Management | Profile Name | New. |
| Network | New Profile1 | Delete |
| | APN | Edit |
| | Opynamic OStatic | Save |
| | APN: | Undo |
| | Authentication Access number: *99# User name: Password: Edwarced | Default |

Mobile Partner Help

To get help on Mobile Partner configuration and settings, click the Help menu and select Online Help or press F1.

| <u>H</u> elp | |
|----------------------------|-----|
| Online <u>H</u> elp | F1 |
| <u>A</u> bout Mobile Partr | ner |

Figure 7 - 25 **Profile Management**

Modules & Options

Connecting to the Service Provider

- 1. Power on the **3.75G/HSPA** module using the **Fn** + we combination.
- Access the Mobile Partner application from the Start menu (Start > Programs/ All Programs > Mobile Partner), or by double-clicking the Mobile Partner icon on the desktop .
- 3. The software will run and you can select the Profile Name from the menu.
 - Click **Connect** to begin the connection process.

Figure 7 - 26 Connect 4.



5. The Mobile Partner application will then display the connection information.

Figure 7 - 27 Network Connection Prompt



3.75G/HSPA Module 7 - 33

Taskbar Notification

7. You can then access the internet, download e-mail etc. as per any internet connection.

📠 👚 0.00 kbps

in the taskbar to display the connection information.

6.

Commentation Manhale Partne

- While you are connected the indicators in the Mobile Partner window will display 8. uploading and downloading icons and a network icon in the taskbar
- To disconnect click the **Disconnect** 9. icon, or right click the taskbar icon and select Disconnect.

👃 0.00 kbps



Figure 7 - 29

Disconnect

Modules & Options

Figure 7 - 28

Connected



When the connection is successful you can move the cursor over the network icon



Modules & Options

- 11. The module will still be on, and you will need to press the **Fn** + we combination to turn it off.
- 12. If you click the **Mobile Partner** close icon a message will be displayed asking you to click **OK** to confirm the program exit and to **terminate the connection**.



- Exiting the program terminates the connection, but DOES NOT turn off the 3.75G/ HSPA module, and you will need to press the Fn + key combination to turn off the module (pay careful attention to this aboard aircraft - see "Wireless Device Operation Aboard Aircraft" on page 7 - 30).
- 14. If the module is on and the computer enters a power-saving state, then the power status of the module on resuming from the power-saving state will be as below:
- If the 3.75G/HSPA module is on and the computer is **Shut Down or Restarted**; the module will be **off** when the computer starts up.
- If the 3.75G/HSPA module is on and the computer enters **Sleep or Hibernate**; the module will be **off** when the computer resumes from sleep.

Figure 7 - 30 Exit Prompt

Text Messaging Service

In addition to standard internet services you may also send and receive SMS text messages using the **Mobile Partner** program, if your service supports SMS.

Reading SMS Messages

- 1. An icon rew will blink at the bottom of the **Mobile Partner** interface to notify you of any new messages received.
- 2. Click the **Text** icon **o** in the **Mobile Partner** Interface.
- 3. Select the Local > Inbox or SIM/USIM Card folder and select any message to read it.
- 4. Right-click the message and choose an option to reply, forward or delete the message.

Creating and Sending SMS Messages

- 1. Click the **Text** icon **o** in the **Mobile Partner** Interface.
- 2. Click the New button X.
- 3. Enter the recipient's number in the **Send To...** field or click the **Send To...** button to select an entry from the phone book, and click **OK**.
- 4. Type in the message details.
- 5. Click the **Send** button, **Save** button to send the message later or **Close > Yes** to save in the **Draft** folder.

For more details on SMS click the **Help** menu and select **Online Help** or press **F1** and select **SMS**.

Modules & Options

Help & Manual

R

Right-click the taskbar icon do not be the menu to select **Help**.

Insert the Device Drivers & Utilities + User's Manual disc and click **Option Driv**ers (button). Click **Unlock** (button) and then click **4.FingerPrint >Yes**.

Click **Documentation** to open the folder containing the manual in .pdf format.

To install the Adobe Acrobat Reader software to read the file, insert the *Device Driv*ers & *Utilities* + *User's Manual disc* and click **User's Manual** (button), and click **Install Acrobat Reader** (button).

Fingerprint Reader Module

If you have included the (**optional**) fingerprint reader in your purchase option you will need to install the driver as per the instructions below.

Make sure you have administrator's rights to your computer, and have a *Windows* password enabled for full security protection.

Before beginning the enrollment process it is recommended that you go through the fingerprint tutorial. To run the tutorial click **Start > Programs/All Programs > Protector Suite QL > Fingerprint Tutorial** after installing the driver.

Fingerprint Reader Driver Installation

- 1. Insert the *Device Drivers & Utilities* + *User's Manual* disc into the CD/ DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click **4.FingerPrint > Yes**.
- 4. Click Software Installation.
- 5. Click Next > Next > Next.
- 6. Click **Finish > Yes** to restart the computer.

User Enrollment

- 1. Click Start > Programs/All Programs > Protector Suite QL > User Enrollment,
 - or double click the taskbar icon 🗾.
- 2. Click Initialize.



Figure 7 - 31 Initialize Fingerprints

- 3. On the first run of the program you will be asked to click the button to accept the license, and then click **OK**.
- 4. Click **Next** and select "*Enrollment to the hard disk*", and click **Finish**.



Figure 7 - 32 Enroll to Hard Disk

Modules & Options

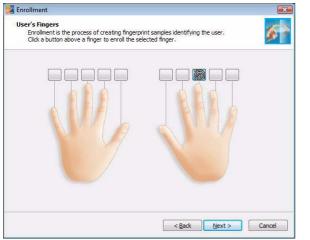
- 5. If you have not set a *Windows* password you will be prompted to do so (note: If you have not set a password Protector Suite QL cannot secure access to your computer).
- 6. Click Next.
- 7. You will then be prompted to enter your *Windows* password and click Next.
- 8. Select either to use the fingerprint reader alone for authentication, or choose both the fingerprint reader and the Windows password, and then click Next.

| Authentication Factors: | |
|-----------------------------------------------|-------------------------------------------|
| Fingerprint Fingerprint + Windows Password | User will be authentified by fingerprint. |
| | |
| | |

Figure 7 - 33 Multifactor

- 9. Click Next > Next (if you have the "Run interactive tutorial" tickbox selected you will run through the Fingerprint Tutorial).
- 10. Click **Next** for each window of the tutorial (you can click the button to "*skip* tutorial' at any time).

- 11. Click the button above any of the fingers to begin the enrollment process for that finger.
- 12. Swipe the finger five times to enroll that finger.
- 13. Repeat the process for all the fingers you wish to enroll (see sidebar), and then click **Next**.
- 14. Click Finish.
- 15. Click "**Help**" in the **Fingerprint Control Center** to get more information on any topic.
- 16. You can also run the **Tutorial**, or **Introduction** (to run the product tour video) to get more information.





Note that it is strongly recommended that you **enroll more than one finger in case of injury etc.**

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Fingerprint

Enrollment

Figure 7 - 34 Fingerprint Enrollment

Modules & Options

17. Right-click the taskbar icon is to bring up the **Control Center** that allows you to **Edit Fingerprints**, **register applications**, manage **Password Bank**, **File Safe** and access the **Help** menu etc. You can also run the **Control Center** etc. from the **Protector Suite QL** item in the **Programs/All Programs** menu.



- 18. See "Help & Manual" on page 7 36 for further details.
- 19. If you swipe your finger over the reader at any time you can access the **Biomenu** to **lock the computer**, **register websites**, access the **Personal Safe** open the **Control Center** and access the **Help** menu.

Figure 7 - 35 Control Center & Biomenu

Fingerprint Control Center Features

Application Launcher

The **Application Launcher** allows you to register applications to be launched when assigned to a particular finger. Simply copy the application icon on to one of the registered fingers and ten click OK to close the application window. Once registered the application will launch when you swipe the appropriate finger across the sensor.

Password Bank

The **Password Bank** stores registrations of user names, passwords and other settings for web sites etc.

File Safe

File Safe is an encrypted area assigned on your hard drive that allows you to store files and folders to be protected by fingerprint protection.

For more information on these and other features simply access "**Help**" in the **Fingerprint Control Center** and select the item from the menu on the left.

Modules & Options

Chapter 8: Troubleshooting

Overview

Should you have any problems with your computer, before consulting your service representative, you may want to try to solve the problem yourself. This chapter lists some common problems and their possible solutions. This can't anticipate every problem, but you should check here before you panic. If you don't find the answer in these pages, make sure you have followed the instructions carefully and observed the safety precautions in the preface. If all else fails, talk to your service representative. You should also make a record of what happened and what remedies you tried.

Of course, if something goes wrong, it will happen at the most inconvenient time possible, so you should preview this section just in case. If, after you've tried everything, and the system still won't cooperate, try turning it off for a few minutes and then rebooting. You will lose any unsaved data, but it may start working again. Then call your service representative.

Basic Hints and Tips

Many of the following may seem obvious but they are often the solution to a problem when your computer appears not to be working.

- **Power** Is the computer actually plugged into a working electrical outlet? If plugged into a **power strip**, make sure it is actually working. Check the **LED Power & Communication Indicators** (see "*System Map: LCD Panel Open Models G & H" on page 1 11*) to see the computer's power status.
- Connections Check all the cables to make sure that there are no loose connections anywhere.
- Power Savings Make sure that the system is not in Hibernate or Sleep mode by pressing the keys configured in your Power Options (see "Power-Saving States" on page 3 6), the Fn + F4 key combination, or power button to wake-up the system.
- **Brightness** Check the brightness of the screen by pressing the **Fn** + **F8** and **F9** keys to adjust the brightness.
- **Display Choice** Press Fn + F7 to make sure the system is not set to "external only" display.
- Boot Drive Make sure there are no optical media and/or USB storage devices in any connected drive (this is a common cause of the message "Invalid system disk Replace the disk, and then press any key" / "Remove disks or other media. Press any key to restart").

Backup and General Maintenance

- Always **backup** your important data, and keep copies of your OS and programs safe, but close to hand. Don't forget to note the **serial numbers** if you are storing them out of their original cases, e.g. in a CD wallet.
- Run **maintenance programs** on your hard disk and OS as often as you can. You may schedule these programs to run at times when you are not using your computer. You can use those that are provided free with your OS, or buy the more powerful dedicated programs to do so.
- Write down your passwords and keep them safe (away from your computer). This is especially important if you choose to use a Supervisor password for the BIOS (see "The Power-On Self Test (POST)" on page 5 2).
- Keep copies of vital settings files such as network, dialup settings, mail settings etc.(even if just brief notes).

Warranty

The CPU is not a user serviceable part. Opening this compartment, or accessing the CPU in any way, may violate your warranty.

Viruses

- Install an **Anti-Virus** program and keep the **definitions file** (the file which tells your program which viruses to look for) up to date. New computer viruses are discovered daily, and some of them may seriously harm your computer and cause you to lose data. **Anti-Virus** programs are commercially available and the **defini-tions file updates** are usually downloadable directly from the internet.
- Be careful when opening e-mail from sources you don't know. **Viruses** are often triggered from within **e-mail attachments** so take care when opening any attached file. You can configure most **Anti-Virus** programs to check all **e-mail attachments**. **Note**: You should also beware of files from people you know as the virus may have infected an **address book** and been automatically forwarded without the person's knowl-edge.
- Keep a "Bootable CD-ROM/DVD-ROM/USB storage device" (this CD/DVD/USB device provides basic information which allows you to startup your computer) handy. You may refer to your OS's documentation for instructions on how to make one, and many Anti-Virus programs will also provide such a disk (or at least instructions on how to make one).

Upgrading and Adding New Hardware/Software

- Do not be tempted to make changes to your **Windows Registry** unless you are very sure of what you are doing, otherwise you will risk severely damaging your system.
- Don't open your computer or undertake any repair or upgrade work if you are not comfortable with what you are doing.
- Read the **documentation**. We can assume, since you are reading this that you are looking at the computer's manual, but what about any new peripheral devices you have just purchased? Many problems are caused by the installation of new hardware and/or software. Always refer to the documentation of any new hardware and/or software, and pay particular attention to files entitled "**READ ME**" or "**READ ME FIRST**".
- When installing a new device always make sure the device is powered on, and in many cases you will need to restart the computer. Always check that all the cables are correctly connected.
- Make sure you have installed the **drivers** for any new hardware you have installed (latest **driver files** are usually available to download from vendor's websites).

- Thoroughly check any **recent changes** you made to your system as these changes may affect one or more system components, or software programs. If possible, go back and undo the change you just made and see if the problem still occurs.
- Don't over complicate things. The less you have to deal with then the easier the source of the problem may be found; **Example** if your computer has many devices plugged into its ports, and a number of programs running, then it will be difficult to determine the cause of a problem. Try disconnecting all of the devices and restarting the computer with all the peripheral devices unplugged. A process of elimination (adding and removing devices and restarting where necessary) will often find the source of a problem, although this may be time consuming.

8 - 6 Upgrading and Adding New Hardware/Software

Problems and Possible Solutions

| Problem | Possible Cause - Solution |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| You turned on the power but it doesn't work. | Battery missing / incorrectly installed. Check the battery bay, make sure the battery is present and seated properly (the design of the battery only allows it to go in one way). Make sure there's nothing interfering with the battery contacts. |
| The battery LED power indicator [], is blinking orange. | Low Battery. Plug in the DC power source. If the computer doesn't start up immediately, turn it off then on again. |
| You are losing battery power too quickly. | The system is using too much power. If your OS has a Power Options scheme (see "Power Plans" on page 3 - 4/"Power Schemes" on page E - 20) check its settings. You may also be using an ExpressCard/USB device/external device that is drawing a lot of power. |
| Actual battery operating time is shorter than expected. | The battery has not been fully discharged before being recharged. Make sure the battery is fully discharged and recharge it completely before reusing (see "Battery Information" on page 3 - 10/"Battery Information" on page E - 25). |
| | <i>Power Options have been disabled.</i> Go to the Control Panel in <i>Windows</i> and re-enable the options. |
| | A peripheral device/USB device/ExpressCard is consuming a lot of power. Turn off/remove the unused device to save power. |

| Problem | Possible Cause - Solution |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The computer feels too hot . | Make sure the computer is properly ventilated and the Vent/Fan intakes are not blocked. If this doesn't cool it down, put the system into Hibernate mode or turn it off for an hour. Make sure the computer isn't sitting on a thermal surface (see "Overheating" on page 1 - 21). Make sure you're using the correct adapter. |
| | Make sure that your notebook is completely powered off before putting it into a travel bag (or any such container). Putting a notebook which is powered on in a travel bag may cause the Vent/Fan intakes to be blocked. |
| Nothing appears on screen. | The system is in a power saving mode. Toggle the sleep/resume key combination, Fn + F4 (see "Configuring the Power Buttons" on page 3 - 8/ "Sleep Button" on page E - 24). |
| | The screen controls need to be adjusted. Toggle the screen control key combinations $Fn + F8/F9$. If you're connected to an external monitor, make sure it's plugged in and turned on. You should also check the monitor's own brightness and contrast controls. |
| | <i>The computer is set for a different display.</i> Toggle the screen display key combination, Fn + F7 . If an external monitor is connected, turn it on. |
| | The screen saver is activated. Press any key or touch the TouchPad. |
| No image appears on the external monitor I have plugged in and powered on. | You haven't installed the video driver and configured it appropriately from the Control Panel . See Appendix B / Appendix C / "Video Features" on page E - 7 for instructions on installing and configuring the video driver. |

| Problem | Possible Cause - Solution |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| You forget the boot password . | If you forget the password, you may have to discharge the battery of the CMOS. Contact your service representative for help. |
| | シート Password Warning |
| | R forget your password. The consequences of this could be serious. If you cannot ontact your vendor and you may lose all of the information on your hard disk. |
| The sound cannot be heard or the volume is very low. | The volume might be set too low. Check the volume control in the Volume Control Panel in the Windows taskbar, or use the key combination Fn + F5 and F6 (see "Function/Hot Key Indicators" on page 1 - 17) to adjust. |
| The CD/DVD cannot be read. | The CD/DVD is dirty. Clean it with a CD/DVD cleaner kit. |
| The CD/DVD tray will not open when there is a disc in the tray. | The CD/DVD is not correctly placed in the tray. Gently try to remove the disc using the eject hole (see "Loading Discs" on page 2 - 3). |
| The DVD regional codes can no longer be changed. | The code has been changed the maximum 5 times. See "DVD Regional Codes" on page 2 - 5/ "DVD Regional Codes" on page E - 2. |
| Unwelcome numbers appear when typing. | If the LED fin is lit, then Num Lock is turned ON . (see "System Map: LCD Panel Open - Models G & H" on page 1 - 11). |

| Problem | Possible Cause - Solution | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | B | |
| Other Keyboards If your keyboard is damaged or you just want to make a change, you can use any standard USB keyboard. The system will detect and enable it automatically. However special functions/hot keys unique to the system's regular keyboard may not work. | | |
| The system freezes or the screen goes dark. | <i>The system's power saving features have timed-out.</i> Use the AC/DC adapter, press the sleep (Fn + F4) key combination, or press the power button if no LEDs are lit. | |
| The system never goes into a power saving mode. | Power Options features are not enabled. Go to the <i>Windows</i> Power Options menu and enable the features you prefer (see <i>"Power-Saving States" on page 3 - 6/"System Power Options" on page E - 22</i>). Make sure you have enabled Hibernate mode from the control panel. | |
| The Wireless LAN/Bluetooth/3.75G/ HSPA modules cannot be detected. | The modules are off. Check the LED indicator (1) and/or function key indicator to see if the WLAN/Bluetooth/3.75G/HSPA module is on or off (see "System Map: LCD Panel Open - Models G & H" on page 1 - 11). If the LED indicator is off, then press the Fn + F11 (WLAN), Fn + F12 (Bluetooth) or Fn + (3.75G/ HSPA) key combination(s) in order to enable the modules (see "- Function & Hot Key Indicators" on page 1 - 17). | |

| Problem | Possible Cause - Solution |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The PC Camera module cannot be detected. | <i>The module is off.</i> Press the Fn + F10 key combination in order to enable the module (see <i>"Function/Hot Key Indicators" on page 1 - 17</i>). Run the BisonCap program to view the camera picture. |
| The Wireless LAN/Bluetooth/ PC Camera/3.75G/HSPA modules cannot be configured. | The driver(s) for the module(s) have not been installed. Make sure you have installed the driver for the appropriate module (see the instructions for the appropriate module in <i>"Modules & Options" on page 7 - 1/"Module Drivers"</i> on page <i>E - 33</i>). |
| A file cannot be copied to/from a connected Bluetooth device. | The transfer of data between the computer and a Bluetooth enabled device is supported in one direction only (simultaneous data transfer is not supported). If you are copying a file from your computer to a Bluetooth enabled device, you will not be able to copy a file from the Bluetooth enabled device to your computer until the file transfer process from the computer has been completed |
| The Bluetooth module is off after resuming from Sleep. | The Bluetooth module's default state will be off after resuming from the Sleep power-saving state. Use the key combination (Fn + F12) to power on the Bluetooth module after the computer resumes from Sleep. |

| Problem | Possible Cause - Solution |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Hibernate function has disappeared. | You have a computer with 4GB of RAM and have installed Windows Vista Service Pack 1. This is a known issue if your computer has 4GB of RAM and is running Windows Vista Service Pack 1. To re-enable Hibernate mode go to the Command Prompt and type the command "powercfg -h on" (make sure you are logged on as an Administrator): Click Start 2 (menu button). Type "cmd" in the Start Search box 2 (menu when it appears in the menu. Type "powercfg -h on" in the Command Prompt window. Close the Command Prompt window. The Hibernate function will now be enabled. |

| Problem | Possible Cause - Solution |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB Hotfix The computer's USB devices "hang" (including the internal USB PC Camera module, WLAN module etc.). | You have a computer with 4GB of RAM and are having problems with USB devices (with both internal and external USB devices). This is a known issue and can be resolved by installing the USB hotfix provided on the Device Drivers & Utilities + User's Manual as follows (make sure your user account type is set as an administrator). |
| | Insert the Device Drivers & Utilities + User's Manual disc. Click Browse CD/DVD (button). Double-click to open the following folders Others > USB_hotfix (X:\Others\USB_hotfix). Right-click newusb2c.exe and select "Run as administrator". The USB hotfix will install. You will need to restart the computer to fully apply the hotfix. |
| | |
| Aero Themes and Auto-Hide Taskbar | |

Do not use an **Aero** theme and **Auto-hide the taskbar** (Taskbar and Start Menu Properties) in **SiS video** running the *Windows* **7** OS. This is to prevent problems when the system wakes from a power-saving state.

Screen Resolution Error

If you are experiencing either screen resolution reduction, or screen flickering **after resuming from Sleep in** *Windows Vista* **only** then follow the instructions below to fix this problem. This error arises in compliance with *Windows Vista* policy, which triggers **TMM** (Transient Multi-Monitor Manager) when the notebook lid (S3) is closed. **TMM** disconnects the LCD display from the OS and then adds the LCD display back when the lid is opened. This may trigger **TMM** to restore an old display setting which may result in screen flickering or a screen resolution change. To fix this problem you will need to disable **TMM** in the OS:

1. Go to the **Control Panel** in the **Windows OS** and double-click the **Administrative Tools** icon (**System and Maintenance**).



2. Double-click Task Scheduler (Schedule Tasks).

- Figure 8 1 Control Panel System and Maintenance
- 8 14 Screen Resolution Error

- 3. Double-click Task Scheduler Library > Microsoft > Windows.
- 4. Click MobilePC to open the control panel.
- 5. Right-click TMM and select Disable.

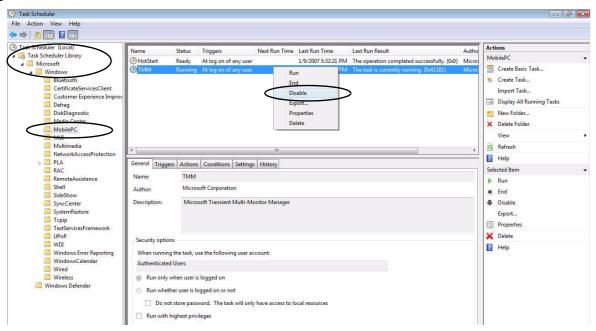


Figure 8 - 2 - TMM Disable

6. Close all the control panels.

Appendix A: Interface (Ports & Jacks) Overview

The following chapter will give a quick description of the interface (ports & jacks) which allow your computer to communicate with external devices, connect to the internet etc.

Notebook Ports and Jacks

| ltem | Description |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Card Reader Port | The card reader allows you to use some of the latest digital storage cards. Push the card into the slot and it will appear as a removable device. |
| DC-In Jack | Plug the supplied AC/DC adapter into this jack to power your computer. |
| External Monitor (VGA) Port | This port allows you to connect an external monitor, or Flat Panel Display, to get dual video or simultaneous display on the LCD and external monitor/FPD. |
| Headphone-Out Jack | Headphones or speakers may be connected through this jack. Note : Set your system's volume to a reduced level before connecting to this jack. |
| Microphone-In Jack | Plug an external microphone in to this jack to record on your computer. |
| RJ-11 Modem Jack | This port connects to the built-in modem. You may plug the telephone line directly into this RJ-11 telephone connection. Note : Broadband (e.g. ADSL) modems usually connect to the LAN port. |

| Item | Description |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RJ-45 LAN Jack | This port supports LAN (Network) functions. Note: Broadband (e.g. ADSL) modems usually connect to the LAN port. |
| Security Lock Slot | To prevent possible theft, a Kensington-type lock can be attached to this slot. Locks can be purchased at any computer store. |
| S/PDIF-Out Jack | This S/PDIF (Sony/Philips Digital Interface Format) Out Jack allows you to connect your DVD- capable PC to a Dolby AC-3 compatible receiver for "5.1" or 'dts' surround sound. |
| USB 2.0/1.1 Ports | These USB 2.0 compatible ports (USB 2.0 is fully USB 1.1 compliant) are for low-speed peripherals such as keyboards, mice or scanners, and for high-speed peripherals such as external HDDs, digital video cameras or high-speed scanners etc. Devices can be plugged into the computer, and unplugged from the computer, without the need to turn the system off (if the power rating of your USB device is 500mA or above, make sure you use the power supply which comes with the device). |

Appendix B: SIS Video Driver Controls

The basic settings for configuring the LCD are outlined in "Video Features" on page 1 - 25.

SIS Video Driver Installation

Make sure you install the drivers in the order indicated in *Table 4 - 1, on page 4 - 3*. Insert the *Device Drivers & Utilities + User's Manual* disc and click *Install Drivers* (button).

Video

- 1. Click **1.Install Video Driver > Yes**.
- 2. Click Yes (click Yes if you want to view the ReadMe file).
- 3. Click **Yes** to restart the computer.

Note: After installing the video driver go to the **Display Settings** control panel to adjust the video settings to the highest resolution.

Video Memory

The system does not feature dedicated video memory, but automatically and dynamically allocates as much (up to **256MB** maximum) system memory (RAM) as needed to the video system. The system returns whatever memory is no longer needed to the operating system.

| (| Ø |
|---|---------------------------------------------------------------------------------------------------------------|
| l | Function Key Combination |
| | You can use the Fn + F7 key combination to toggle through the dis- play options: |
| | Notebook Only External Display Only Notebook + External Display |
| | Make sure you give the displays enough time to refresh. |

SIS Video Driver Controls

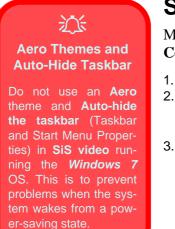


Figure B - 1 SIS VGA Control Center

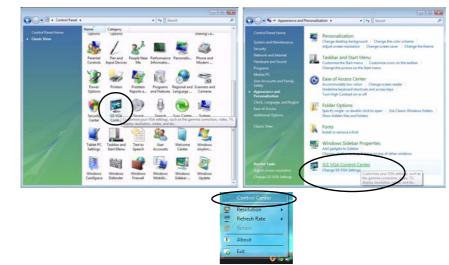
SIS VGA Control Center

More advanced video configuration options are provided by the SIS VGA Control Center.

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Double-click **SiS VGA Control Center** (click "**Classic View**" from the left of the menu if you are in **Control Panel Home**).

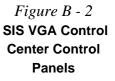
OR

RIght-click the SIS Tray taskbar icon **S**, and select Control Center.



You may make changes to the video and display settings by clicking the appropriate menu button.





SIS Video Driver Controls

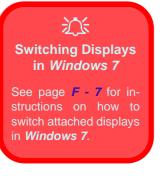


Table B - 1Display Modes

Display Devices & Options

Besides the built-in LCD, you can also use an **external VGA monitor** (CRT) or **external Flat Panel Display** as your display device. A VGA monitor/Flat Panel Display connects to the external monitor port. The following display modes are available.

| Display Setting Mode | Description |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Single | One of the connected displays is used as the display device |
| Clone | Both connected displays output the same view and may be configured independently |
| Multi-Mode | Both connected displays are treated as separate devices, may be configured independently and act as a virtual desktop (this is similar to Extended Desktop in <i>Windows</i>) |

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SIS Video Driver Controls

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Switching Displays

in Windows 7

See page F - 7 for in-

switch attached displays

in Windows 7.

Attaching Other Displays

Besides the built-in LCD, you can also use an external monitor (CRT)/flat panel display as your display device. Connect it to the external monitor port on the left of the computer, and configure the displays from **SiS VGA Control Center**:

- 1. Attach your external display to the external monitor port and turn it on.
- 2. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 3. Click SiS VGA Control Center (or click Appearance and Personalization > SiS VGA Control Center).
- 4. Click Display Setting icon
- 5. Click Device List <Change Devices>.
- 6. Select which active device is to be **Device 1/Device 2** and click **OK**.

| Device1 | | Device2 | | |
|---------|---|---------|---|--|
| LCD2 | - | CRT | - | |

Click **OK** to close the window if you decide not to change display devices (**do not use Alt + F4 to close the window)**. Figure B - 3

Figure B - 3 Select Active Devices

7. You can then choose the **Display Setting** mode from the menu buttons.



Figure B - 4 **Display Setting**

To Enable a Display Setting Mode

- 1. Attach your external display to the external monitor port and turn it on.
- 2. Go to the SiS VGA Control Center > Display Setting menu
- 3. Click the appropriate icon for the display setting mode you wish to use.
- 4. Click Yes within 15 seconds in order to save the setting change.

Figure B - 5 Confirm Changes

| Dov | ou want to keep this change? | | |
|-----|------------------------------|-----|----|
| | seconds | | |
| 15 | Seconds | | |
| | | Yes | No |

- 5. You can adjust the **display mode**, **change the status** and **clone** Device 1 from the device list menu.
- 6. Click **Apply > Yes** to save any changes.



Figure B - 6 Display Setting Device List Options

В

B - 6 To Enable a Display Setting Mode

SIS Video Driver Controls

Using Display Settings to Enable Extended Mode

- 1. Attach your external display to the external monitor port, and turn it on.
- 2. Open the **Display Settings** control panel (see "Video Features" on page 1 25).
- 3. Click the monitor icon (e.g. 2), and make sure you have checked "Extend the desktop onto this monitor." and click Apply.

| Display Settings | | | |
|---------------------------------------------------------------------------------------|-----------|--------------------|---------------|
| Ionitor | | | |
| Drag the icons to match your monitors. | | Iden | tify Monitors |
| 1 | 1024, 176 | | |
| | \smile | | |
| 2. (Default Monitor) on SiS Mirage 3 Gra | aphics | | |
| This is my main monitor | _ | | |
| This is my main monitor Extend the desktop onto this monitor | _ | | |
| This is my mein monitor Extend the desktop onto this monitor Resolution: | > | Colors: | (22 Lia) |
| This is my main monitor Extend the desktop onto this monitor | _ | Colors: Highest | (32 bit) |
| This is my main monitor Extend the desktop onto this monitor Resolution: Low | > | | (32 bit) |
| This is my main monitor Extend the desktop onto this monitor Resolution: Low | > | Highest | (32 bit) |

Click the appropriate monitor icon (e.g. **2**) to be able to select the option to extend the desktop on to it.

In this example the Primary Displayis on the left, the Secondary Displayis on the right.

Display Settings Extended Desktop

Use the control panel to drag the monitors to match the physical arrangement you wish to use.

You can drag any icons or windows across to either display desktop, which makes it possible to have one program visible in one of the displays, and a different program visible in the other display.

Figure B - 7 Display Properties (Extended Desktop)

SIS Video Driver Controls

8 - 14

Appendix C: NVIDIA Video Driver Controls

The basic settings for configuring the LCD are outlined in *"Video Features" on page 1 - 25*.

NVIDIA Video Driver Installation

Make sure you install the drivers in the order indicated in *Table 4 - 1, on page 4 - 3*. Insert the *Device Drivers & Utilities + User's Manual* disc and click *Install Drivers* (button).

- 1. Click **1.Install Video Driver > Yes**.
- 2. Click Next.
- 3. Click **Finish** to restart the computer.

Note: After installing the video driver go to the **Display Settings** control panel to adjust the video settings to the highest resolution.



Resolution Error If you are experiencing screen resolution problems/screen flickering after resuming from Sleep in Windows Vista see page

NVIDIA Control Panel

More advanced video configuration options are provided in the NVIDIA Control Panel tab.

- 1. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 2. Double-click NVIDIA Control Panel (click "Classic View" from the left of the menu if you are in Control Panel Home).

OR

Informatio

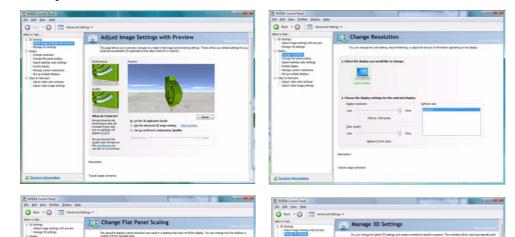
Reports a.

- Right-click the **desktop**. 3.
- 4. Click NVIDIA Control Panel.





The **NVIDIA Control Panel** provides additional video configuration controls and tools which allow quick access to features such as display configuration, 3D Settings and Help menus etc.



Owner readulter

Owner fat parel solling Adjust dealing oder anthop Astals deplay Namet carter moduliers bet up matter deplay

Table & Table cases Adjust online safety and the

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Artiduceg - Note

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1 Use NUCCA analog with Fand age

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Navigating the Control Panel

B

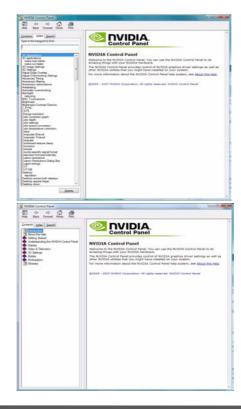
Navigate through the control panels in much the same way as you would a web page. Click on the sub-heading tasks in the left menu (and on the highlighted links) for information. Use the buttons on the top left to go back, forward etc.

Figure C - 2 NVIDIA Control Panels



The **Help** menus provide index and search features, and direct links to the NVIDIA website etc.





Attaching Other Displays

Configuring an External Display in Windows Vista

- 1. Attach your external display to the external monitor port and turn it on.
- If a New Display Detected window does not appear in *Windows Vista*, go to the Windows Mobility Center control panel (Mobile PC > Adjust commonly used mobility settings) and click *Connect display*.
- Click on any of the buttons to configure the displays to your preferences, or click <u>Display Settings</u> (in the *New Display Detected* window) to access the control panel.



Display Devices

Besides the built-in LCD, you can also use an external monitor/flat panel display as your display device. The following are the display options:

- The built-in LCD.
- An external monitor connected to the external monitor port.
- A flat panel display connected to the external monitor port.

Figure C - 4 New Display Detected

Configuring an External Display using the NVIDIA Control Panel

Alternatively you can use the **NVIDIA control panel** to configure any attached displays.

- 1. Attach your external display to the external monitor port and turn it on.
- 2. Go to NVIDIA Control Panel (see "NVIDIA Control Panel" on page B 2).
- 3. Click Set up multiple displays (Display).

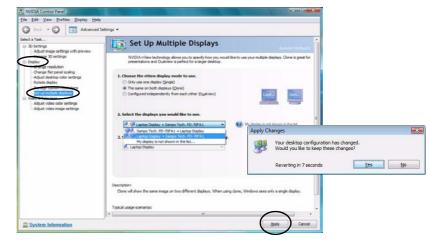


Figure C - 5 Set Up Multiple Displays

- 4. Click to select the nView display mode you wish to use (see page C 7).
- 5. Select the display(s) you want to use (if your display is not shown click "*My Display is not shown in the list...*"), and choose which display is to be the primary display.
- 6. Click **Apply > Yes** to save the changes.

Display Modes

Single Display Mode

Only one of your displays is used.

Clone Mode

Clone Mode simply shows an exact copy of the Primary display desktop on the other display(s). This mode will drive multiple displays with the same content.

Dualview Mode

Dualview Mode treats both connected displays as separate devices, and they act as a virtual desktop resulting in a large workspace. When Dualview is enabled, you can drag any icons or windows across to the other display desktop. It is therefore possible to have one program visible in one of the displays, and a different program visible in the other display.

迩

Resolution Error

If you are experiencing screen resolution problems/screen flickering after resuming from Sleep in *Windows Vista* see page 8 - 14.

Using New Display Detected to Enable Extended Mode

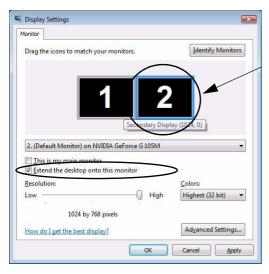
- 1. Attach your external display to the external monitor port and turn it on.
- If a New Display Detected window does not appear in *Windows Vista*, go to the Windows Mobility Center control panel (Mobile PC > Adjust commonly used mobility settings) and click *Connect display*.
- 3. Click to select Show different parts of my desktop on each display (extended).
- 4. Click Right or Left under Extend your desktop.
- 5. Click **Apply > OK**.

| 😏 New Display Detected | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Choose the appearance of your display Extend your desktop: Bight Left Choose the appearance of your displays Duplicate my desktop on all displays (mirrored) Show different parts of my desktop on each display (extended) Show my desktop on the external display gnly To select different settings, go to <u>Display Settings</u> in Control Panel. | |
| Дррју ОК С | ancel |

Figure C - 6 New Display Detected (Extended)

Using Display Settings to Enable Extended Mode

- 1. Attach your external display to the external monitor port and turn it on.
- 2. Click Start, and click Control Panel (or point to Settings and click Control Panel).
- 3. Click Adjust screen resolution under the Appearance and Personalization menu (or double-click Personalization > Display Settings).
- 4. Click the monitor icon (e.g. 2), and make sure you have checked "Extend the desktop onto this monitor." and click Apply.



Click the appropriate monitor icon (e.g. **2**) to be able to select the option to extend the desktop on to it.

In this example the Primary monitor **1** is on the left, the secondary display **2** is on the right.

Display Settings Extended Desktop

Use the control panel to drag the monitors to match the physical arrangement you wish to use.

You can drag any icons or windows across to either display desktop, which makes it possible to have one program visible in one of the displays, and a different program visible in the other display.

Figure C - 7 Display Settings (Extend the Desktop)

Appendix D: Specifications

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Latest Specification Information

The specifications listed in this Appendix are correct at the time of going to press. Certain items (particularly processor types/ speeds and CD/DVD device types) may be changed, delayed or updated due to the manufacturer's release schedule. Check with your service center for details.

| Feature | Specification | | | |
|-----------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|--|
| Processor | Intel® Core™2 Duo Processor (478-pin) Micro-FC-PGA Package, Socket P T8100/ T8300 | 45nm (45 Nanometer) Process Technology 3MB On-die L2 Cache & 800MHz FSB - TDP 35W 2.1/ 2.4 GHz | | |
| | Intel® Core™2 Duo Processor (478-pin) Micro-FC-PGA Package, Socket P T9300/ T9500 | 45nm (45 Nanometer) Process Technology 6MB On-die L2 Cache & 800MHz FSB - TDP 35W 2.5/ 2.6 GHz | | |
| | Intel® Core™2 Duo Processor (478-pin) Micro-FC-PGA Package, Socket P T7100/ T7250 | 65nm (65 Nanometer) Process Technology 2MB On-die L2 Cache & 800MHz FSB - TDP 35W 1.80/ 2.0 GHz | | |
| | Intel® Core™2 Duo Processor (478-pin) Micro-FC-PGA Package, Socket P T7300/ T7500/ T7700/ T7800 | 65nm (65 Nanometer) Process Technology 4MB On-die L2 Cache & 800MHz FSB - TDP 35W 2.0/ 2.2/ 2.4/ 2.6 GHz | | |
| | Intel® Celeron® Processor (478-pin) Micro-FC-PGA Package, Socket P T1600/ T1700 | 65nm (65 Nanometer) Process Technology 1MB On-die L2 Cache & 667MHz FSB - TDP 35W 1.66/ 1.86 GHz | | |
| | Intel® Celeron® M Processor (478-pin) Micro-FC-PGA Package, Socket P 575/ 585 | 65nm (65 Nanometer) Process Technology 1MB On-die L2 Cache & 667MHz FSB - TDP 31W 2.0/ 2.16 GHz | | |
| | Intel® Celeron® M Processor (478-pin) Micro-FCPGA Package, Socket P 530/ 540/ 550/ 560 | 65nm (65 Nanometer) Process Technology 1MB On-die L2 Cache & 533MHz FSB - TDP 31W 1.73/ 1.86/ 2.0/ 2.13 GHz | | |

D

| Feature | Specification | | |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Core Logic | Models A, B, E & G: SiS M672 + SiS968 Chipset | Models C, D, F & H: SiS 671DX + SiS968 Chipset | |
| LCD | Models A & C: 14.1" WXGA/ WXGA+ Glare Type TFT LCD | Models B & D: 15.4" WXGA/ WXGA+/ WSXGA+ Glare Type TFT LCD | |
| | Model E: 17" WXGA (1440 * 900) TFT LCD | Model F: 17." WXGA (1440 * 900) / WSXGA+ (1680 * 1050) / WUXGA (1920 * 1200) TFT LCD | |
| | <u>Model G & H:</u> 15.6" HD 16:9 (1366 * 768) TFT LCD | | |
| Video Adapter | Models A, B, E & G: | Models C, D, F & H: | |
| | SIS® M672 Integrated Video High Preference 3D/2D Graphic Accelerator Shared Memory Architecture (up to 256MB dynamically allocated from system memory where needed) Supports DirectX 9.0 Supports Vertex Shader 2.0 and Pixel Shader 2.0 | nVIDIA GeForce G 105M Discrete Graphics On- Board 512MB of GDDR2 Video Memory On-Board TurboCache™ Supporting Total Graphics Memory up to 512MB (depending on system memory) Supports DirectX 10.0 | |
| Memory | 64-bit Wide DDRII (DDR2) Data Channel Two 200 Pin SO-DIMM Sockets Supporting DDRII (Memory Expandable up to 4GB (1024MB/ 2048MB | | |

| Feature | Specification | | |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--|
| Security | Security (Kensington® Type) Lock Slot Fingerprint ID Reader Module (Factory Option) | BIOS Password | |
| BIOS | One 8Mb SPI Flash ROM | Phoenix™ BIOS | |
| Storage | One Changeable 12.7mm(h) Optical Device (CD/DVD) Type Drive (see "Optional" on page D - 6) Easy Changeable 2.5" 9.5 mm (h) SATA (Serial) HDD | | |
| Audio | High Definition Audio (HDA) 3D Stereo Enhanced Sound System | S/PDIF Digital Output 2 * Built-In Speakers Built-In Microphone | |
| Keyboard | Models A - D: WinKey Keyboard (with embedded numeric keypad) | <u>Models E - H:</u> Full Size WinKey Keyboard (with numeric keypad) | |
| Pointing Device | Built-In TouchPad with Scrolling Function | | |
| Interface | Three USB 2.0 Ports One Headphone-Out Jack One Microphone-In Jack One S/PDIF-Out Jack | One RJ-11 Modem Jack One RJ-45 LAN Jack One DC-In Jack One External Monitor Port | |
| Card Reader | Embedded 7-in-1 Card Reader (MS/ MS Pro/ SD/ Mini SD/ MMC/ RS MMC/ MS Duo) Note: MS Duo/ Mini SD/ RS MMC Cards require a PC adapter | | |

| Feature | Specification | | |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--|
| Card Slots | One ExpressCard/34(54) Slot | Two Mini-Card Slots with USB interface: Slot 1 for WLAN Module Slot 2 for 3.75G/HSPA Module (Factory Option) | |
| Communication ECF UMTS Modes Note that UMTS modes CAN NOT be used in North America. | 56K Fax Modem Built-In 10M/100Mb Base-TX Ethernet LAN 802.11b/g Wireless LAN Mini-Card Module with USI 1.3M or 2.0M Pixel USB PC Camera Module (Factor Bluetooth 2.1 + EDR (Enhanced Data Rate) Module OR <u>3.75G/HSPA Module</u> : UMTS/HSPDA-based 3.75G/HSPA Module with Mir Quad-band GSM/GPRS (850 MHz, 900 MHz, 7 UMTS WCDMA FDD (2100 MHz) | e (Factory Option) • (Factory Option) • -Card Interface (Factory Option) | |
| Power Management | Supports ACPI 3.0 Supports Wake on LAN | Supports Wake on USB Supports Resume from Modem Ring | |
| Power | Models A, B, E & G: Full Range AC/DC Adapter AC input 100 - 240V, 50 - 60Hz, DC Output 19V, 3.42A OR 18.5V, 3.5A (65 Watts) | Models C, D, F & H: Full Range AC/DC Adapter AC input 100 - 240V, 50 - 60Hz, DC Output 19V, 4.74A (90 Watts) | |
| | 6 Cell Smart Lithium-Ion Battery Pack, 4000mAH OR 4400mAH 9 Cell Smart Lithium-Ion Battery Pack, 7200mAH (Option) | | |

| Feature | Specification | | |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Operating Systems | Windows® Vista (with Service Pack 1) Windows® XP (with Service Pack 3) Windows® 7 | | |
| Environmental Spec | Temperature Operating: 5°C - 35°C Non-Operating: -20°C - 60°C | Relative Humidity Operating: 20% - 80% Non-Operating: 10% - 90% | |
| Dimensions & Weight | Models A & C: 336mm (w) * 250mm (d) * 24.8-35.7mm (h) 2.2 kg With 6 Cell Battery & ODD | Models B & D: 359mm (w) * 268mm (d) * 24.8-37mm (h) 2.5 kg With 6 Cell Battery & ODD | |
| | Models E & F: 397.2mm (w) * 282.5mm (d) * 39.5mm (h) 2.9 kg With 6 Cell Battery & ODD | Models G & H: 374mm (w) * 256mm (d) * 25 - 37.9mm (h) 2.7 kg With 6 Cell Battery & ODD | |
| Optional | Optical Drive Module Options:DVD-ROM/CD-RW Combo Drive ModuleDVD Dual (Super Multi) Drive Module802.11b/g Wireless LAN Mini-Card Module with USB interface9 Cell Smart Lithium-Ion Battery Pack, 7200mAH1.3M or 2.0M Pixel USB PC Camera Module (Factory Option) | Fingerprint ID Reader Module (Factory Option for Models C, D, F & H) Bluetooth 2.1 + EDR (Enhanced Data Rate) Module (Factory Option) OR UMTS/HSPDA-based 3.75G/HSPA Module with Mini-Card Interface (Factory Option) Quad-band GSM/GPRS (850 MHz, 900 MHz, 1800 MHz, 1900 MHz) UMTS WCDMA FDD (2100 MHz) | |

Appendix E: Windows XP Information

This Appendix contains information (including control panel information, driver installation etc.) for users of the *Windows XP OS*.

E

DVD Regional Codes

Changing DVD Regional Codes

Go to the **Control Panel** and double-click **System > Hardware** (tab), click **Device Manager**, then click the **+** next to **DVD/CD-ROM drives**. Double-click on the DVD-ROM device to bring up the **Properties** dialogue box, and select the **DVD Region** (tab) to bring up the control panel to allow you to adjust the regional code.

DVD region detection is device dependent, not OS-dependent. You can select your module's region code **5** times. The fifth selection is permanent. This cannot be altered even if you change your operating system or you use the module in another computer.

| Region | Geographical Location | |
|--------|-----------------------------------------------------------------------------|--|
| 1 | USA, Canada | |
| 2 | Western Europe, Japan, South Africa, Middle East & Egypt | |
| 3 | South-East Asia, Taiwan, South Korea, The Philippines, Indonesia, Hong Kong | |
| 4 | South & Central America, Mexico, Australia, New Zealand | |
| 5 | N Korea, Russia, Eastern Europe, India & Most of Africa | |
| 6 | China | |

Table E - 1 - DVD Region Codes

| | | - 4000 |
|-------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|
| ieneral Proper | ties DVD Regi | on Volumes Driver |
| regionalized DV | D on your complete | v in specific regions. To glay a uter, you must set your DVD drive to lecting a geographic area from the |
| After Changes (| emaining reache | e region a limited number of times. e zero, you cannot change the region even your DVD drive to a different computer. |
| Changes remain | ning:5 | |
| To change the | current region, se | elect a geographic area, and then click DK. |
| | | |
| | | |
| United Kingdo | m | |
| United Kingdo United States Uruguay Uzbekistan Varuatu Vatican City Venezuela | m | 0 |
| United Stoles Uruguay Uzbekistan Vanuatu Vatican City | | × |
| United States Uruguay Uzbekistan Vanuatu Vatican City Venezuela | | |

Figure E - 1 - DVD Regions

Windows XP Start Menu & Control Panel

Most of the control panels, utilities and programs within *Windows XP* (and most other *Windows* versions) are accessed from the **Start** menu. When you install programs and utilities they will be installed on your hard disk drive, and a shortcut will usually be placed in the **Start** menu and/or the desktop. You can customize the look of the **Start** menu by right-clicking the **Start** menu and selecting **Properties** from the menu.



In many instances throughout this manual you will see an instruction to open the **Control Panel**. The **Control Panel** is accessed from the **Start** menu, and it allows you to configure the settings for most of the key features in *Windows* (e.g. power, video, network, audio etc.). *Windows XP* provides basic controls for many of the features, however many new controls are added (or existing ones are enhanced) when you install the drivers. To see all controls it may be necessary to toggle off Category View.

TouchPad and Buttons/Mouse

The TouchPad is an alternative to the mouse; however, you can also add a mouse to your computer through one of the USB ports. The TouchPad buttons function in much the same way as a two-button mouse.

Once you have installed the TouchPad driver (see "*TouchPad*" on page E - 32) you can configure the functions by double-clicking the TouchPad driver icon \blacksquare on the **taskbar**. You may then configure the TouchPad tapping, buttons, scrolling, pointer motion and sensitivity options to your preferences. You will find further information at www.synaptics.com.

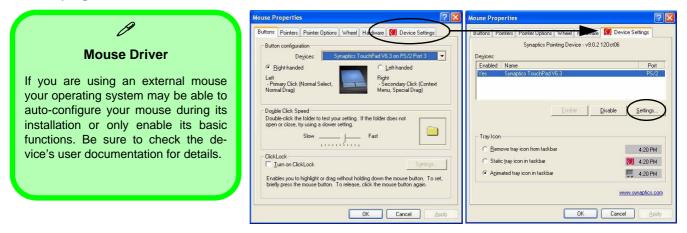


Figure E - 3 - Mouse Properties

Function Keys/Hot Key Indicators

The **function keys** (F1 - F12 etc.) will act as **hot keys** when pressed while the **Fn** key is held down. In addition to the basic function key combinations; visual indicators are available when the hot key utility is installed (see *"Hot Key" on page E - 32*). When the driver is installed, an icon will appear in the taskbar.

| Keys | Function | Keys | Function |
|------------|-----------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| Fn + ~ | Play/Pause (in Audio/Video Programs) | Fn + F7 | Display Toggle |
| Fn + 🧾 | 3.75G/HSPA Module Power Toggle | Fn + F8/ F9 | Brightness Decrease/Increase |
| Fn + F1 | TouchPad Toggle | Fn + F10 | PC Camera Power Toggle |
| Fn + F2 | Turn LCD Backlight Off (Press a key to or use TouchPad to turn on) | Fn + F11 | WLAN Module Power Toggle |
| Fn + F3 | Mute Toggle | Fn + F12 | Bluetooth Module Power Toggle 🗾 👔 👔 👔 👔 🖉 |
| Fn + F4 | Sleep Toggle | M | *Silent Mode Toggle |
| Fn + F5/F6 | Volume Decrease/Increase | | enabled, Silent Mode will reduce fan noise and save power sumption. Note this may reduce computer performance. |

Table E - 2 - Hot Key Functions & Indicators

Audio Features

You can configure the audio options on your computer from the **Sounds and Audio Devices** (2) *Windows* control panel, or from the **Realtek HD Audio Manager** (3) icon in the taskbar/control panel (this will bring up the Realtek Audio Configuration menus). The volume may also be adjusted by means of the Fn + F5/F6 key combination.



Figure E - 4 - Realtek Audio Configuration Menus

E

Video Features

This computer features two different (either SiS for Model A, B, E & G computers or NVIDIA for Models C, D, F & H computers) video options. You can switch display devices, and configure display options, from the Display Properties control panel in *Windows* as long as the appropriate video driver is installed. For further information see either "SiS Video Driver Controls" on page E - 9 (pages E - 9 to E - 12) or "NVIDIA Video Driver Controls" on page E - 16). Note: After installing the video driver go to the Display Properties control panel to adjust the video settings to the highest resolution.

To access Display Properties in Windows:

- 1. Click Start, point to Settings and click Control Panel (or click Control Panel).
- 2. Double-click **Display** (icon); **Display** (icon) is in the **Appearances and Themes** category.
- 3. Click Settings (tab) in the Display Properties dialog box.
- 4. Move the slider to the preferred setting in Screen resolution (1) Figure E 5 on page E 8).
- 5. Click the arrow, and scroll to the preferred setting in **Color quality** (2) Figure E 5 on page E 8).
- 6. Open the **Display Properties** control panel, and click **Advanced** (button) **3** to bring up the **Advanced properties** tabs.

To access the *SiS Utility Manager (Models A, B, E & G)*:

- 1. Select Advanced properties (see above), click SIS Utility Manager (tab) to access the SIS video controls.
- 2. You can also access **SIS** video controls by right-clicking the **SIS Utility Tray** taskbar icon Signary, and selecting the appropriate control from the **Display Property(D)** menu.

To access the *NVIDIA Control Center* (*Models C, D, F & H*):

1. The **NVIDIA Control Panel** can be accessed by right-clicking the desktop, and then clicking **NVIDIA Control Panel** (or from the **NVIDIA Control Panel** in the **Windows** control panel).

Display Properties & SiS Utility Manager/NVIDIA Control Panel

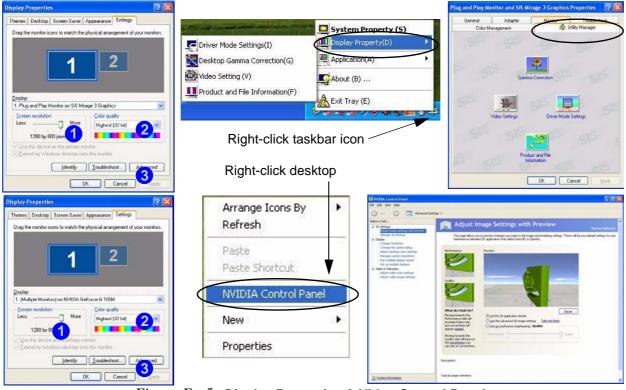


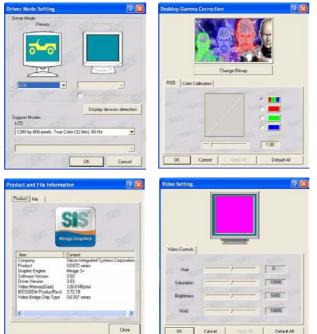
Figure E - 5 - Display Properties & Video Control Panels

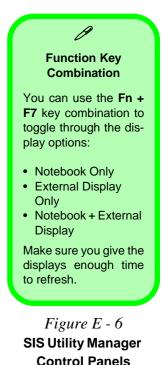
E

SiS Video Driver Controls

(Models A, B, E & G)

Access the SiS Utility Manager as indicated *on page E* - 7. You may make changes to the video and display settings by clicking the appropriate menu button.





Display Devices & Modes (SiS)

Besides the built-in LCD, you can also use an **external VGA monitor** (CRT) or **external Flat Panel Display** as your display device. A VGA monitor/Flat Panel Display connects to the external monitor port. The following display modes are available.

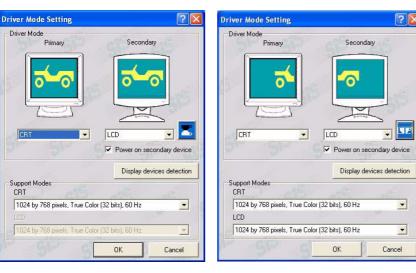
| Driver Mode Setting | Description |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Single | One of the connected displays is used as the display device |
| Clone 🚬 | Both connected displays output the same view |
| Multi-Mode | Both connected displays are treated as separate devices, may be configured independently and act as a virtual desktop (this is similar to Extended Desktop in <i>Windows</i>) |

Table E - 3 - Display Modes

Attaching Other Displays (SiS)

If you prefer to use a monitor or flat panel display as your display device, then connect it to the external monitor port on the left of the computer.

- 1. Attach your external display to the external monitor port, and turn it on.
- 2. Go to the SIS Utility Manager control panel and click Driver Mode Settings.
- 3. Click to choose the **Primary** or **Secondary** display option from the menu.
- 4. Click the button to toggle either Clone **S** or Multi-Mode **D**.
- 5. Click **OK > Ok > Yes** to confirm the settings change.



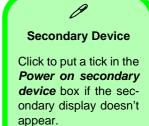


Figure E - 7 Driver Mode Setting

Е

To Enable Extended Desktop (Windows Display Properties)

- 1. Attach your external monitor to the external monitor port, and turn it on.
- 2. Click Start, point to Settings (or click Control Panel) and click Control Panel (if you are in Category View choose Appearance and Themes).
- 3. Double-click **Display** (icon).
- 4. In the **Display Properties** dialog box, click **Settings** (tab).
- 5. Click the monitor icon (e.g. 2), and make sure you have checked "Extend my Windows desktop onto this monitor." and click Apply.

? Click the appropriate mon-**Display Properties** ß itor icon (e.g. 2) to be able Themes Desktop Screen Saver Appearance Settings Drag the monitor icons to match the physical arrangement of your monitors. to select the option to ex-**Display Settings Extended** Desktop tend the desktop on to it. Use the control panel to drag the mon-In this example the Primary itors to match the physical arrangemonitor **1** is on the left, the ment you wish to use. Display. secondary display **2** is on 2. Plug and Play Monitor on SiS Mirage 3 Graphics You can drag any icons or windows the right. Screen resolution Color quality across to either display desktop, More Less Highest (32 bit) which makes it possible to have one 1024 by 768 pixels program visible in one of the displays, and a different program visible in the Extend my Windows desktop onto this monito other display. Troubleshoot. Identify Advanced OK Cancel Apply

Figure E - 8 - Display Properties (Extended Desktop)

NVIDIA Video Driver Controls

(Models C, D, F & H)

Access the **NVIDIA Control Panel** as indicated *on page E* - 7. You may make changes to the video and display settings by clicking the appropriate menu item.



Navigating the Control Panel

B

Navigate through the control panels in much the same way as you would a web page. Click on the headings, menus and highlighted links for information. Use the buttons on the top left to go back, forward etc.

The **Help** menus provide index and search features, and direct links to the NVIDIA website etc.

> *Figure E - 9* NVIDIA Control Panels

Display Devices and Modes (NVIDIA)

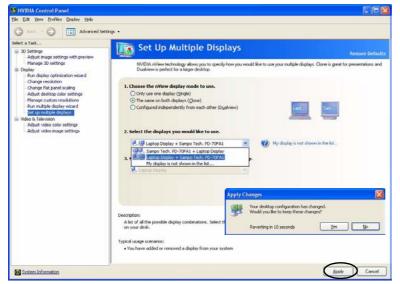
Besides the built-in LCD, you can also use an **external VGA monitor** (CRT) or **external Flat Panel Display** as your display device. A VGA monitor/Flat Panel Display connects to the external monitor port. The following display modes are available.

| nView Display Mode | Description |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Single | One of the connected displays is used as the display device |
| Clone | Both connected displays output the same view |
| Dualview | Both connected displays are treated as separate devices, may be configured independently and act as a virtual desktop (this is similar to Extended Desktop in <i>Windows</i>) |

Table E - 4 - Display Modes

Attaching Other Displays (NVIDIA)

- 1. Attach your external display to the external monitor port and turn it on (see sidebar).
- 2. Go to the NVIDIA Control Panel.
- 3. Click Display, and then click Set Up Multiple Displays.



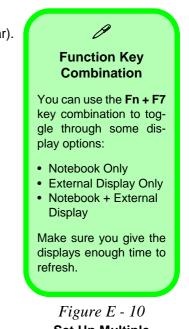


Figure E - 10 Set Up Multiple Displays

- 4. Choose the **nView display mode** you wish to use.
- 5. Select the displays you want to use (if your display is not shown click "*My Display is not shown in the list...*"), and choose which display is to be the primary display.
- 6. Click **Apply** make the change.

To Enable Extended Desktop (Windows Display Properties)

- 1. Attach your external monitor to the external monitor port, and turn it on.
- 2. Click Start, point to Settings (or click Control Panel) and click Control Panel (if you are in Category View choose Appearance and Themes).
- 3. Double-click **Display** (icon).
- 4. In the **Display Properties** dialog box, click **Settings** (tab).
- 5. Click the monitor icon (e.g. 2), and make sure you have checked "Extend my Windows desktop onto this monitor." and click Apply.

Click the appropriate mon-? 🗙 **Display Properties** ß itor icon (e.g. 2) to be able Themes Desktop Screen Saver Appearance Settings to select the option to ex-**Display Settings Extended** Drag the monitor icons to match the physical arrangement of your monitors. Desktop tend the desktop on to it. Use the control panel to drag the mon-In this example the Primary itors to match the physical arrangeecondary Display (1280, 0) monitor **1** is on the left, the ment you wish to use. Display. secondary display **2** is on 2. Plug and Play Monitor on NVIDIA GeForce G 105M You can drag any icons or windows the right. Screen resolution Color quality across to either display desktop, More Less Highest (32 bit) which makes it possible to have one 1024 by 768 pixels program visible in one of the displays, and a different program visible in the Extend my Windows desktop onto this monito other display. Troubleshoot... Identify Advanced Cancel **NK**

Figure E - 11 - Display Properties (Extended Desktop)

Power Management Features

To conserve power, especially when using the battery, your computer uses the ACPI power management system. Power management conserves power by controlling individual components of the computer (the monitor and hard disk drive) or the whole system.

The **Power Options** control panel icon in *Windows* (see page E - 3) allows you to configure power management features for your computer. You may conserve power through individual components such as the monitor or hard disk, or you may use either **Stand by** or **Hibernate** mode to conserve power throughout the system.

Advanced Configuration and Power Interface

The **ACPI** interface provides the computer with enhanced power saving techniques and gives the operating system (OS) direct control over the power and thermal states of devices and processors. For example, it enables the OS to set devices into low-power states based on user settings and information from applications. ACPI is fully supported in *Windows XP*.

CS Note

Power management functions will vary slightly depending on your operating system. For more information it is best to refer to the user's manual of your operating system.

(**Note**: All pictures used on the following pages are from the *Windows XP* OS.)

Ε

The Power Sources

The computer can be powered by either an AC/DC adapter or a battery pack.

AC/DC Adapter

Use only the AC/DC adapter that comes with your computer. The wrong type of AC/DC adapter will damage the computer and its components.

- 1. Attach the AC/DC adapter to the DC-in jack on the left of the computer.
- 2. Plug the AC power cord into an outlet, and then connect the AC power cord to the AC/DC adapter.
- 3. Raise the lid/LCD to a comfortable viewing angle.
- 4. Press the power button to turn "On".

Battery

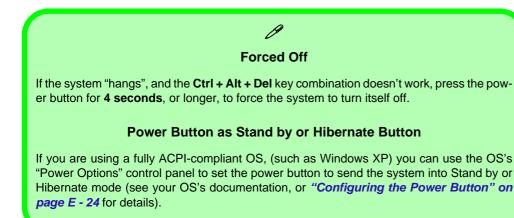
The battery allows you to use your computer while you are on the road or when an electrical outlet is unavailable. Battery life varies depending on the applications and the configuration you're using. To increase battery life, let the battery discharge completely before recharging (see "How do I completely discharge the battery?" on page E - 28).

We recommend that you do not remove the battery. For more information on the battery, please refer to "*Battery Information*" *on page E - 25*.

Turning On the Computer

Now you are ready to begin using your computer. To turn it on simply press the power button on the front panel.

When the computer is on, you can use the power button as a Stand by/Hibernate/ Shutdown hot-key button when it is pressed for less than **4 seconds** (pressing and holding the power button for longer than this will shut the computer down). Use **Power Options** in the *Windows* control panel to configure this feature.



Shutdown

Note that you should always shut your computer down by choosing the **Turn Off Computer** command from the **Start** menu in **Windows**. This will help prevent hard disk or system problems.

Power Schemes

Resuming Operation Press a key on the keyboard or move the

board, or move the mouse/TouchPad to resume from Monitor or Hard Disk Stand by.

Figure E - 12 **Power Schemes**

3.75G/HSPA Modules & System Wake Up

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Note that the 3.75G modules **DO NOT** support system wake up on 3.75G/HSPA modem activity.



You can set your computer to conserve power through individual components by

means of **Power Schemes**. You can also adjust the settings for each scheme to set

the monitor to turn off after a specified time, and the computer's hard disk motor to turn off if the hard disk drive has not been accessed for a specified period of time (if

the system reads or writes data, the hard disk motor will be turned back on). The

schemes may also be set to set a specified time for the system to enter Stand by or

Hibernate modes (see "System Power Options" on page E - 22).

F - 20 Power Schemes



Each *Windows* **Power Scheme** will also adjust the processor performance of your machine in order to save power. This is worth bearing in mind if you are experiencing any reduced performance (especially under DC/battery power).

Choose the **Home/Office Desk** scheme for maximum performance when the computer is powered from an AC power source. Choose the **Max Battery** scheme (bear in mind that this scheme may slow down the overall performance of the computer in order to save power) for maximum power saving when the computer is battery (DC power) powered. *Windows* will use **Portable/Laptop** as the default scheme.

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Stand by/Hibernate or Shutdown Error

The computer may stop responding when you put it into (or resume from) Stand By or Hibernate, or when you shut down.

This error is caused by power management within *Windows XP*, when applied to a **PC Camera** attached to the internal USB hub.

Microsoft has posted a Hotfix for this error on its website (search for Hotfix KB909667).

Download and install the Hotfix to correct this error.

System Power Options

You can use the system power options to stop the computer's operation and restart where you left off. This system features **Stand by** and **Hibernate** sleep mode levels (**Hibernate** mode will need to be enabled by clicking the option in the **Hibernate** tab in the **Power Options** control panel - see "*Hibernate*" on page E - 23).

Hibernate Mode vs. Shutdown

Hibernate mode and Shutdown are the same in that the system is off and you need to press the power button to turn it on. Their main difference is:

When you come back from hibernation, you can return to where you last left off (what was on your desktop) without reopening the application(s) and file(s) you last used.

You can use either method depending on your needs.

Stand by Mode vs. Hibernate Mode

If you want to stay away from your work for just a while, you can put the system on Stand by instead of in hibernation. It takes a longer time to wake up the system from **Hibernate** mode than from **Stand by** mode.

Stand by

Stand by saves the least amount of power, but takes the shortest time to return to full operation. During Stand by the hard disk is turned off, and the CPU is made to idle at its slowest speed. All open applications are retained in memory. When you are not using your computer for a certain length of time, which you specify in the operating system, it will enter Stand by mode to save power.

Hibernate

Hibernate uses no power and saves all of your information on a part of the HDD before it turns the system off. Although it saves the most power it takes the longest time to return to full operation. You can set your computer to automatically enter Hibernate mode when the battery power is almost depleted. You will need to enable Hibernate mode from the **Hibernate** tab in the Power Options control panel. **The system will resume from Hibernate mode by pressing the power button**.



System Resume The system can resume from Stand by mode by: Pressing the power button Pressing the Sleep/ Resume key combination An incoming call received on the modem (if enabled)

• Network card (Wake On LAN) activity (if enabled)

Figure E - 13 Enable Hibernation

Sleep Button

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You may also configure the **Sleep/Resume** key combination (**Fn + F4**) from the menu illustrated. In *Windows* this is referred to as the **Sleep** button.

Figure E - 14 Power Options (Advanced - Power Buttons)

Configuring the Power Button

The power button may be set to send the computer in to either **Stand by** or **Hibernate** mode. In **Stand by** mode, the LED D/U will blink green. In **Hibernate** mode the LED will be off (battery) or orange (AC/DC adapter). If you are in a power saving mode set to save power through individual components (e.g. hard disk, monitor), the LED will remain green.

| ower Options Properties | 2 🔀 | Power Options Properties | 2 🔀 | Power Options Properties | ? |
|--------------------------------------------------------|------------------|--------------------------------------------------------|-------|---------------------------------------------------------|---|
| Power Schemes Alams Power Meter Advanced Hibernate | | Power Schemes Alarms Power Meter Advanced Hibernate | | Power Schemes Alarms Power Meter Advanced Hibernate | |
| Select the power-saving settings you want to use. | | Select the power-saving settings you want to use. | | Select the power-saving settings you want to use. | |
| Options | | - Options | | Options | |
| Alwagg show icon on the taskbar | | Always show icon on the taskbar | | Always show icon on the taskbar | |
| Prompt for password when computer resumes from standby | | Prompt for password when computer resumes from standby | | Prompt for password when computer resumes from standby | |
| Power buttons | = | Power buttons | = | Power buttons | |
| When I close the lid of my portable computer. | _ | When I close the lid of my portable computer: | 1000 | When I close the lid of my portable computer. | - |
| Stand by | ~ | Stand by | ~ | Stand by | * |
| When I press the power button on my computer: | | Do nothing Stand by | | When I press the power button on my computer. | |
| Shut down | | Shut down | * | Shut down | ¥ |
| Do nothing Ask me what to do | | When I press the sleep button on my computer | | When I press the sleep button on my computer | |
| Stand by Hibernate | | Stand by | ~ | Stand by | Y |
| Shut down | | | | Do nothing Aak me what to do Stand by Hibemate | |
| OK Cancel | APPh 1 | OK Cancel | Azoly | Shut down | |
| | Conditional Inc. | | | | |

Power Button

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Sleep/Resume (Sleep) Button

Battery Information

Please follow these simple guidelines to get the best use out of your battery.

New Battery

Always completely discharge, then fully charge, a new battery (see "*Battery FAQ*" on page E - 28 for instructions on how to do this).

Battery Life

Your computer's battery life is dependent upon many factors, including the programs you are running, and peripheral devices attached. **Power Options** (you may set low battery **Alarms** and actions, and check the **Power Meter** from the **Power Options** control panel), and settings in the OS will help prolong the battery life if configured appropriately.

| Low battery alarm | | | - |
|------------------------|--------------------------|--------------------------|--------|
| Activate jow battery | alarm when powe | r level reaches | 10% |
| 0x 🗍 🗍 | | | , 100% |
| Alarm Action | Notification: Action: | Sound, Text Stand by | |
| Critical battery alarm | Run Program | None | |
| Activate gritical batt | ery alam when po | wer level reaches: | 3% |
| 011 - | | | 100% |
| Alagm Action | Notification: Action: | Sound, Test Hibernate | |
| | Run Program | None | |

| Power Scheme | Adams Power Meter | Advanced | Hibernale |
|--------------|-----------------------------------------------------------------------------|--------------|-----------|
| Show deta | is for each battery. | | |
| Power statu | | | |
| 1 | Current power source: Total battery power remain Total time remaining | | |
| #1 | ti. | | |
| | | | |
| | | | |
| Ciic | k an individual battery icon t | or more into | mation |



Low Battery Warning

When the battery is critically low, immediately connect the AC/DC adapter to the computer or save your work, otherwise, the unsaved data will be lost when the power is depleted.

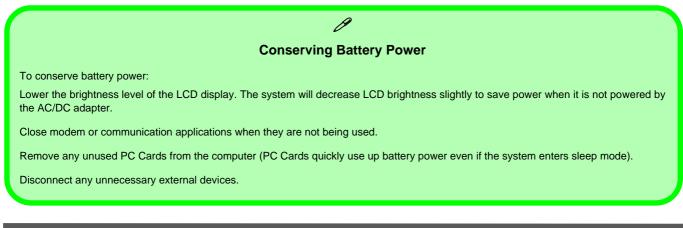
> Figure E - 15 Power Options (Alarm & Power Meter)

Battery life may be shortened through improper maintenance. To optimize the life and improve its performance, fully discharge and recharge the battery at least once every 30 days.

We recommend that you do not remove the battery yourself. If you need to remove the battery for any reason, see "*Removing the Battery*" on page 6 - 3.

Recharging the Battery with the AC/DC Adapter

The battery pack automatically recharges when the AC/DC adapter is attached and plugged into an electrical outlet. If the computer is powered on, and in use, it will take several hours to fully recharge the battery. When the computer is turned off but plugged into an electrical outlet, battery charge time is less. (Refer to *"System Map: LCD Panel Open - Models G & H" on page 1 - 11* for information on the battery charge status, and to *"Battery Information" on page E - 25* for more information on how to maintain and properly recharge the battery pack.)



Proper handling of the Battery Pack

- DO NOT disassemble the battery pack under any circumstances
- DO NOT expose the battery to fire or high temperatures, it may explode
- DO NOT connect the metal terminals (+, -) to each other

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Damaged Battery Warning

Should you notice any physical defects (e.g. the battery is bent out of shape after being dropped), or any unusual smells emanating from the notebook battery, shut your computer down immediately and contact your service center. If the battery has been dropped we do not recommend using it any further, as even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire. It is recommended that you replace your computer battery every two years.



Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

Battery FAQ

How do I completely discharge the battery?

Use the computer with battery power until it shuts down due to a low battery. Don't turn off the computer by yourself even when you see a message that indicates the battery is critically low, just let the computer use up all of the battery power and shut down on its own. Disable the **Power Options** functions in the **Control Panel**, especially any **Alarms (unclick** the tickboxes - see page E - 25) and **Schemes** (change all the settings to **Never** - see page E - 20). As the battery nears the end of its life save and close any critical files.

How do I fully charge the battery?

When charging the battery, don't stop until the LED charging indicator light changes from orange to green.

How do I maintain the battery?

Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges.

Windows XP Driver Installation

Insert the *Device Drivers & Utilities + User's Manual* disc, click *Install Drivers/Option Drivers* (button) and then click the appropriate driver name from the *Drivers Installer* menu. Follow the instructions to install the driver. Alternatively click **Start**, navigate (**Browse.**) to the executable file and then follow the manual setup instructions.



Figure E - 16 - Drivers Installer Screen 1

- Check the driver installation order from *Table E 5* (the drivers must be installed in this order) which is the same as that listed in the *Drivers Installer* menu below.
- 2. Click to select the driver you wish to install, after installing each driver it will become greyed out (if you need to reinstall any driver, click the **Unlock** button).
- 3. Follow the instructions for each individual driver installation procedure as listed on the following pages.





| WinXP SP2 Driver | Page # |
|---------------------------|-------------|
| Video | Page E - 31 |
| Audio | Page E - 32 |
| Modem | Page E - 32 |
| LAN | Page E - 32 |
| TouchPad | Page E - 32 |
| CardReader | Page E - 32 |
| Hot Key | Page E - 32 |
| PC Camera Module | Page E - 40 |
| WLAN Module | Page E - 47 |
| 3.75G/HSPA Module | Page E - 51 |
| Fingerprint Reader Module | Page E - 58 |

Table E - 5 - Driver Installation

Updating/Reinstalling Individual Drivers

If you wish to update/reinstall individual drivers it may be necessary to uninstall the original driver. To do this go to the **Control Panel** in the *Windows OS* and doubleclick the **Add/Remove Programs** item. **If you see the individual driver listed** (if not see below), uninstall it, following the on screen prompts (it may be necessary to restart the computer). Go to the appropriate section of the manual to complete the update/reinstall procedure for the driver in question.

If the driver is not listed in the **Add/Remove Programs** item:

- Click Start (menu), point to Settings and click Control Panel (or click Start > Control Panel).
- 2. Double-click **System** (icon); System (icon) is in **Performance and Maintenance** (category).
- 3. Click Hardware (tab) > Device Manager (button).
- 4. Double-click the **device** you wish to update/reinstall the driver for (you may need to click "+").
- 5. Look for the **Update Driver** button (check the **Driver** tab) and follow the on screen prompts.



Windows XP Service Pack 3

Make sure you install **Windows XP Service Pack 3** (or a Windows XP version which includes Service Pack 3) **be-fore installing any drivers**.



The driver installation procedure outlined in this Chapter are accurate at the time of going to press.

Drivers are always subject to upgrade and revision so the exact procedure for certain drivers may differ slightly. As a general guide follow the default on screen instructions for each driver (e.g. **Next > Next > Finish**) unless you are an advanced user. In many cases a restart is required to install the driver.

Driver Installation Procedure

Insert the *Device Drivers & Utilities + User's Manual disc* and click *Install Drivers* (button).

Video

1. Click **1.Install Video Driver > Yes**.

Models A, B, E & G (SiS):

- 2. Click Next > Next > Next > Next.
- 3. Click **Next** (click **Yes** if you want to view the ReadMe file).
- 4. Click **Finish** to restart the computer.

Models C, D, F & H (NVIDIA):

- 5. Click Next > Yes.
- 6. Click **Finish** to restart the computer.

Note: After installing the video driver go to the **Display Properties** control panel to adjust the video settings to the highest resolution (see *"Video Features" on page E - 7*).

Audio

- 1. Click **2.Install Audio Driver > Yes**.
- 2. Click Next.
- 3. Click **Finish** to restart the computer.

Modem

- 1. Click **3.Install Modem Driver > Yes**.
- 2. Click OK.
- 3. Click **OK** to restart the computer.

OR

- 1. Click **3.Install Modem Driver > Yes**.
- 2. Click OK.
- 3. The modem is ready for dial-up configuration.

Modem Country Selection

B

Be sure to check if the modem country selection is appropriate for you (**Control Panel** > **Phone and Modem Options**).

LAN

- 1. Click **4.Install Lan Driver > Yes**.
- 2. Click Next.
- 3. Click **Finish > Finish** to restart the computer.
- 4. The network settings can now be configured.

TouchPad

- 1. Click **5.Install Touchpad Driver > Yes**.
- 2. Click **Next > Next > Next**.
- 3. Click **Finish** to restart the computer.

CardReader

- 1. Click 6.Install Cardreader Driver > Yes.
- 2. Click Next > Install.
- 3. Click **Finish** to restart the computer.

Hot Key

- 1. Click **7.Install Hotkey Driver > Yes**.
- 2. Click Next > Install.
- 3. Click **Finish > Finish** to restart the computer.

Module Drivers

See the following pages for the driver installation procedures for any of the optional modules included in your purchase configuration.



Figure E - 18 - Option Drivers

Wireless LAN, Bluetooth & 3.75G/HSPA Modules



Bluetooth Module

The operating system's **Bluetooth Devices** control panel is used to configure the Bluetooth settings in *Windows XP*, and therefore does not require a driver. Use the Fn + F12 key combination (see "*Function Keys/Hot Key Indicators*" *on page E - 5*) to toggle power to the Bluetooth module.

Bluetooth Data Transfer

Note that the transfer of data between the computer and a Bluetooth enabled device is supported **in one direction only (simultaneous data transfer is not supported)**. Therefore if you are copying a file from your computer to a Bluetooth enabled device, you will not be able to copy a file from the Bluetooth enabled device to your computer until the file transfer process from the computer has been completed.

Bluetooth Module & Resuming From Sleep Mode

The Bluetooth module's default state will be off after resuming from the **Sleep** power-saving state. Use the key combination (Fn + F12) to power on the Bluetooth module after the computer resumes from Sleep.

Bluetooth Local Area Connection Icon

If you want to display the Local Area Connection icon for the Bluetooth connection in the taskbar, set it up as follows:

- Access the Network Connections control panel in Windows (Start > Settings > Network Connections OR Start > Connect To > Show all Connections) or by clicking the taskbar icon
- 2. Right-click the Bluetooth connection icon, and select Properties.
- 3. Click to put a tick (if none is present) in the "Show icon in the notification area when connected" box and click OK.
- 4. Close the control panels and the icon solution for the Bluetooth local area connection will be displayed in the taskbar **when connected** (see sidebar and overleaf).

| S Network Connections | 🔄 🗖 🔯 🚽 Local Area Connection 4 Properties 🛛 🛛 🛛 🔀 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| File Edit View Favorites Tools Advanced Help Back · (2) · (2) · (2) Search (2) Folders | General Advanced |
| Address Notwork Connections Network Tasks Create a new Create A new | Connect using: Bluetooth PAN Network Adapter Configure This connection uses the following items: File and Printer Sharing for Microsoft Networks File and Printer Sharing for Microsoft Networks |



Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the **Fn + F12** key combination to toggle power to the Bluetooth module, and check the LED indicator to see if the module is powered on or not (see *Table E - 2, on page E - 5/ Table 1 - 6, on page 1 - 17*).

Figure E - 19 Local Area Connection

Bluetooth Taskbar Icon

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If you cannot see the Bluetooth icon in the taskbar, access the **Bluetooth Devices** control panel. Click **Op**tions (tab), and make sure that **Show Blue**tooth icon in the notification area check box has a tick inside it.

Note that you will need to check the LED indicator to see if the module is powered on or not.

Figure E - 20 Bluetooth Devices & Click Icon Menu

Bluetooth Configuration in Windows XP

Setup your Bluetooth Device so the Computer Can Find it

- 1. Turn your Bluetooth device (e.g. PDA, mobile phone etc.) on.
- 2. Make the device discoverable (to do this check your device documentation).

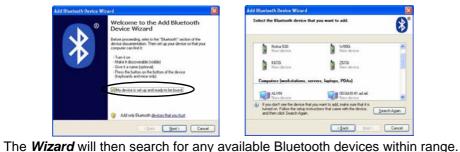
To Turn the Bluetooth Module On

- 1. Press the **Fn + F12** key combination to power on the Bluetooth module.
- 2. A Bluetooth icon 👔 will appear in the taskbar (see sidebar).
- 3. You can then do any of the following to access the **Bluetooth Devices** control panel.
- Double-click the icon 3 to access the Bluetooth Devices control panel.
- Click Start, and click Control Panel (or point to Settings and click Control Panel), and then click Bluetooth Devices (Network and Internet Connections).
- Click/Right-click the icon 8 and choose an option from the menu.



To Add a Bluetooth Device

- 1. Access the Bluetooth Devices control panel.
- 2. Click **Options** (tab), and make sure that **Allow Bluetooth devices to connect to** *this computer* check box (**Connections**) has a tick inside it.
- 3. Click **Devices** (tab), and then click **Add**.
- 4. The Add Bluetooth Device Wizard will appear.
- 5. Click to select "My device is set up and ready to be found", and then click Next.



Click to select the device you want to communicate with, and click Next.

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> Rould always use a <u>partition</u> unless plus device does not support one. We mentil using a partition that a 8 to 16 digits long. The longer the partition

> > (int. jed) Carol

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Do you need a partice to add your device?

Select an appropriate passkey option and click Next.



Passkey Options

You can allow the system to choose a passkey for you. You will then be prompted to enter the generated passkey on your Bluetooth device.

Figure E - 22 **Passkey Option**

9. Click **Finish**.

6.

7.

8.

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To Change Settings for the Bluetooth Device

- 1. Access the Bluetooth Devices control panel.
- 2. Click on the device you want to change and click Properties to:
- Change the name of the device (click General, type a new name and click OK).
- Enable/Disable a service (click Services, clear/tick the check box next to the service and click OK).

To Make your Computer Discoverable to Bluetooth Devices

- 1. Access the Bluetooth Devices control panel.
- 2. Click **Options**, and make sure that *Turn discovery on* check box (**Discovery**) has a tick inside it.
- Make sure that *Alert me when a new Bluetooth device wants to connect* check box (Connections) has a tick inside it, if you want to be notified when a Bluetooth device wants to connect.

Figure E - 23 Bluetooth Devices Options

| Devices | Options | COM Ports | Hardware | |
|---------|-------------------------|-----------------------------------|-------------------------------|-------------------------------------|
| Disco | Veril | | | |
| To al | | | o find this c | omputer, select the |
| | urn discov | ery oni | | |
| | To protec want a Bli | t your privacy uetooth devic | , turn on di e to find thi | scovery only when yo s computer. |
| Conne | ections | | | |
| | | ngs to control inect to this c | | Bluetooth |
| A | low Blueto | oth devices t | o <u>c</u> onnect l | to this computer |
| A | lert me whe | en a new Blue | etooth devi | ce wants to connect |
| V Sho | w the Blue | taoth icon in I | the <u>n</u> otifical | ion area |
| Learn m | iore about | Bluetooth set | tings. | Restore Defaults |
| | | ПК | | Cancel App |

E - 38 Bluetooth Module

PC Camera Module

Before installing the optional PC Camera module driver use the Fn + F10 key combination to toggle power to the module.

There are three camera modules available with this computer model series. You will have the appropriate application installed for your camera. Two camera models use the **BisonCap** application, and the other uses the **AveoCap** application. **Make sure you access the application via the WebCam desktop shortcut**.

Taking Still Pictures

Double-click the **My Computer** icon on the desktop, or go the **Start** menu and point to **My Computer**, then click it.

Double-click the camera icon. Click **Take a new picture** in the **Camera Tasks** box.

Е

PC Camera Driver Installation

- 1. Make sure the module is powered on, and then insert the *Device Drivers & Utilities + User's Manual* disc into the CD/DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click **1.PC Camera, Web cam > Yes**.
- 4. Choose the language you prefer and click **Next > Install**.
- 5. Click **Finish** to restart the computer.
- 6. Run the **BisonCap/AveoCap** application program from shortcut on the desktop (if the hardware is turned off use the Fn + F10 key combination to turn it on again).

PC Camera Audio Setup (all camera modules)

If you wish to capture video & **audio** with your camera, it is necessary to setup the audio recording options in *Windows*.

- 1. Go to the **Start** menu and point to **Settings** (or just click **Control Panel**) and click **Control Panel**, then doubleclick the **Sounds & Audio Devices** icon (**Sounds, Speech, and Audio Devices** in Category View).
- 2. Click Advanced in the Volume > Device volume tab.
- 3. Click Options and scroll down and click Properties.
- 4. Select Realtek HD Audio input from the Mixer device menu.
- 5. Make sure the **Mic Volume** (check box) is checked, then click **OK**.
- 6. Boost the volume in the **Recording** section (in the Recording Control menu) as high as it will go.
- 7. Close the **Recording Control** window, and then click **OK**.
- 8. Run the **BisonCap/Aveocap** application program from the desktop shortcut.
- 9. Go to the Devices menu heading and select Realtek HD Audio input (it should have a tick alongside it).
- 10. Go to the Capture menu heading and select Capture Audio (it should have a tick alongside it).

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Pre-Allocating File Size/Space

You may pre-allocate the file size (File > Allocate File Size/Space) for the capture file in the Bison-Cap/AveoCap program (you will need to set a folder first for the Aveo-Cap program.)

Pre-allocating space on the hard disk can improve the capture quality (particularly of large capture files), by reducing the amount of work the hard disk has to do in finding space for the video data as it is being captured.

See also *"Reducing* Video File Size" on page E - 44.

BisonCap/Aveocap

BisonCap/AveoCap are video viewers for general purpose video viewing and testing, and for capturing video files to .avi format.

- Run the BisonCap/Aveocap application from the desktop shortcut (it is recommended that you set the capture file before the capture process see "Set Capture File (BisonCap)" on page E 43/ "Set Capture File Folder (AveoCap)" on page E 43.
- Go to the Capture menu heading (if you wish to capture audio check "PC Camera Audio Setup (all camera modules)" on page E - 41) and select Start Capture.

For BisonCap:

3. Click **OK** (the file location will be displayed in the pop-up box) to start capturing the video, and press **Esc** to stop the capture (you can view the file using the **Windows Media Player**).

For AveoCap:

4. Click **Yes** to start capturing the video, and press **Esc** to stop the capture (you can view the file using the **Windows Media Player**).

Set Capture File (BisonCap)

Prior to capturing video files you may select the **Set Capture File..** option in the **File** menu, and set the file name and location before capture (this will help avoid accidentally overwriting files). Set the name and location then click **Open**, then set the **''Capture file size:''** and click **OK**. You can then start the capture process as on the previous page.

Set Capture File Folder (AveoCap)

Prior to capturing video files you may select the **Set capture file Folder...** and browse to the folder where you want to save the captured files (in **AveoCap** you will need to create a folder on the hard disk first) and then **Set File Size** and click **OK**. You can then start the capture process as on the previous page.

Note the important information in *"Reducing Video File Size" on page E - 44* in order to save file space, and help prevent system problems.

Reducing Video File Size

Note that capturing high resolution video files requires a substantial amount of disk space for each file. After recording video, check the video file size (right-click the file and select **Properties**) and the remaining free space on your hard disk (go to **My Computer**, right-click the hard disk, and select **Properties**) If necessary you can remove the recorded video file to a removable medium e.g. CD, DVD or USB Flash drive.

Note that the *Windows XP* system requires a minimum of **1.5GB** of free space on the **C: drive** system partition. In order to prevent system problems it is recommended that you save the captured video file to a location other than the **C: drive** (see *"Set Capture File (BisonCap)" on page E - 43/"Set Capture File Folder (AveoCap)" on page E - 43/"Set Capture File Folder (AveoCap)" on page E - 43), limit the file size of the captured video (see <i>"Pre-Allocating File Size/Space" on page E - 42)* or reduce video resolution (see below).

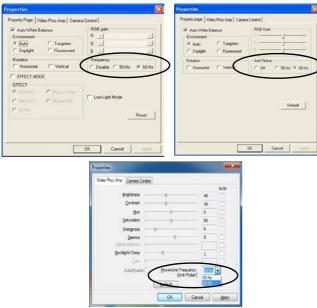
To Reduce Video Resolution Output Size:

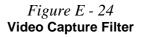
- 1. Run the **BisonCap/Aveocap** application from the desktop shortcut.
- 2. Go to Options/Option and scroll down to select Video Capture Pin....
- 3. Click the **Output Size** drop box and select a lower resolution size in order to reduce the captured file size.
- 4. Click OK.

Eliminating Screen Flicker

If you find that the video screen in the **BisonCap/AveopCap** program is flickering, you can try to adjust the setting in the **Video Capture Filter** options.

- 1. Run the BisonCap/Aveocap application from the desktop shortcut.
- 2. Go to Options and scroll down to select Video Capture Filter....
- 3. Click either 50Hz or 60Hz under Frequency/Anti Flicker/Powerline Frequency.





Zoom

The **BisonCap/AveoCap** program allows you to zoom the camera in and out (**note the zoom function is not available in all camera model applications**).

Figure E - 25 **Zoom/Setting**

Run the BisonCap/Aveocap application from the desktop shortcut.
 Go to Zoom and select Zoom Out/Zoom In.



Taking Still Pictures

The BisonCap/AveoCap program allows you to take still pictures.

- 1. Run the BisonCap/Aveocap application from the desktop shortcut.
- 2. Go to **Options/Option** and select **Take Picture/Snapshot**.
- 3. The picture (in JPEG format) will be placed in the **Snapshot** folder desktop. (see sidebar).

🯓 on the



In **BisonCap** the Snapshot folder's default location is on the desktop. Do not move this folder or an error may appear when you try to take a still picture.

If you accidentally delete or move the folder, you can create a new Snapshot folder on the desktop in order to capture the files.

In **AveoCap** you can set the Snapshot file folder to another location.

WLAN Module

Before installing the optional 802.11b/g USB WLAN module driver use the Fn + F11 key combination to toggle power to the module.

802.11b/g WLAN Driver Installation

- 1. Make sure the module is powered on, then insert the *Device Drivers & Utilities* + *User's Manual* disc into the CD/DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click **2.Wireless Lan > Yes**.
- 4. Choose the language you prefer and click Next.
- 5. Click **Next > Install**.
- 6. Click **Finish** to complete the installation.
- 7. The operating system is the default setting for Wireless LAN control in *Win-dows XP*.
- 8. Access any available wireless networks from **Network Connections** > **Wireless Network Connection** menu in *Windows*, or click the icon in the taskbar, and click **View Wireless Connections**.



Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

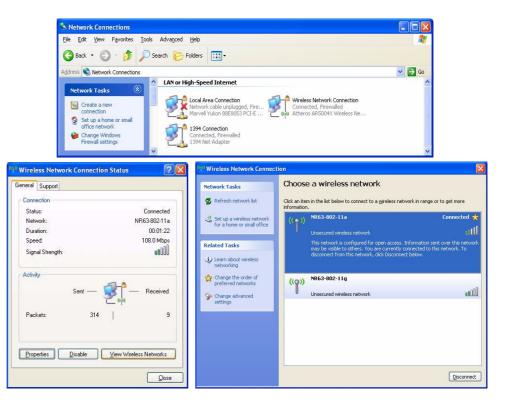
Use the Fn + F11 key combination to toggle power to the WLAN module, and check the indicator to see if the module is powered on or not (see Table E - 2, on page E - 5/ Table 1 - 4, on page 1 - 12).

Network Connection

B

Use the *Windows* Network Connections control panel to access available wireless networks (Start > Settings > Network Connections or Start > Connect To > Show all Connections).

Figure E - 26 Wireless Network Control Panels



3.75G/HSPA Module

If you have included an **optional 3.75G/HSPA** (High Speed Packet Access) module (see "*Communication*" *on page D* - 5 for specification details) in your purchase option, you will have the appropriate application (**3G Watcher** or **Mobile Partner**) provided for your particular module. Follow the instructions on page 7 - 21 to install the USIM card (which will be provided by your service provider), and then install the application.

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Important Notice - 3.75G/HSPA & Bluetooth/Wireless LAN Modules

In order to comply with FCC regulations you should NOT operate the 3.75G/HSPA module and the Bluetooth/Wireless LAN modules at the same time as this may disrupt radio frequency, and cause interference. When the 3.75G/HSPA module is powered on, make sure that the Bluetooth/Wireless LAN modules are powered off.

3.75G/HSPA Module Options

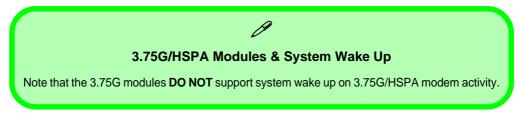
There are two **optional** 3.75G/HSPA modules available for this series of computer models. Each module is supplied with the appropriate application software.

The module type supplied may depend upon the computer model purchased. Check with your service center for details.

Install the driver from the Drivers Installer menu and check the instructions for the appropriate application on the following pages.

Before installing the **application**, make sure that the **3.75G/HSPA** module is on. Use the **Fn**+(\square) key combination (see "*Function/Hot Key Indicators*" on page 1 - 17) to toggle power to the **3.75G/HSPA** module. Make sure you install the drivers in the order indicated in *Table 4 - 1*, on page 4 - 3.

- **3G Watcher** See "*3G Watcher Application*" *on page 7 23* for instructions on using the **3G Watcher** application.
- Mobile Partner See "*Mobile Partner Application*" on page *E* 53 for instructions on using the Mobile Partner application.



3G Watcher Application Installation

- 1. Enable power to the module by pressing the **Fn** + key combination (the on screen icon will indicate the module's power status).
- 2. If a *Found New Hardware Wizard* appears, click Cancel.
- 3. Insert the *Device Drivers & Utilities + User's Manual* disc into the CD/DVD drive.
- 4. Click **Option Drivers** (button).
- 5. Click **3.3G Driver > Yes**.
- 6. Click Next.
- 7. Click the button to accept the license agreement, and then click Install.
- 8. When the next screen appears **wait (about 2 minutes) until the 3G Watcher application appears on screen** (or the "**Found New Hardware**" bubble in the taskbar **disappears**) before clicking **Finish** (this allows the hardware to detect the 3.75G/HSPA module).
- 9. You can access the **3G Watcher** application from the **Start** menu (**Start** > **Programs/All Programs** > **Sierra Wireless** > **3G Watcher**), or by clicking the desktop icon **Sierra**.
- 10. See "Setting Up a Carrier Profile" on page 7 24 and "Connecting to the Service Provider" on page 7 26 for instructions on using the **3G Watcher** application.

Ε

Mobile Partner

With the **3.75G/HSPA** module and USIM card (supplied by your service provider) installed you may then install the **Mobile Partner** application. The **Mobile Partner** application allows you to directly access your HSPA internet service from the computer.

Mobile Partner Application Installation

1. Enable power to the module by pressing the Fn + key combination (the module must be ON when the driver is being installed).

Note: If a *Found New Hardware* window appears (three windows may appear with this message) click **Cancel** in all windows that appear, and then proceed to install the driver as below.

- 2. Insert the *Device Drivers & Utilities + User's Manual* disc into the CD/DVD drive.
- 3. Click **Option Drivers** (button).
- 4. Click **3. 3G Driver > Yes**.
- 5. Choose the language you prefer and click **OK**.
- 6. Click I Agree (button) to accept the license agreement.
- 7. Click **Next > Install**.
- 8. Click **Finish** to restart the computer.
- 9. Access the **Mobile Partner** application from the **Start** menu (**Start > Programs/All Programs > Mobile Partner**), or by double-clicking the **Mobile Partner** icon on the desktop.

Mobile Partner Application

You will need to contact your service provider to obtain the exact details of how exactly to configure the settings on this page.

Profile Management

- Power on the **3.75G/HSPA** module using the **Fn** + **I** key combination. 1.
- 2. Access the Mobile Partner application from the Start menu (Start > Programs/All Programs > Mobile Partner), or by double-clicking the Mobile Partner icon on the desktop 🔝.
- 3. If you have not created a profile, click **Tools** and select Options, and then click Profile Management.
- and input the appropriate information for Profile Name, APN Click New New 4 and Authentication etc. as supplied by your service provider.
- 5. Click **Save** to save the profile.

| 🗅 General | Dial-Up | |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------|
| Test Mossage Profile Masagement Network | Profile Name | New. |
| | New Profile1 | Delete |
| | APN | Edit |
| | OStatic | Save |
| | APN: | Undo |
| | Authenticoton- Acces number: *9# User name: Pastword: Édwarced | Defauk |



Figure E - 27**Profile Management**

Connecting to the Service Provider

- 1. Power on the **3.75G/HSPA** module using the **Fn +** is key combination.
- Access the Mobile Partner application from the Start menu (Start > Programs/All Programs > Mobile Partner), or by double-clicking the Mobile Partner icon on the desktop .
- 3. The software will run and you can select the **Profile Name** from the menu.
- 4. Click **Connect** to begin the connection process.





5. The Mobile Partner application will then display the connection information.

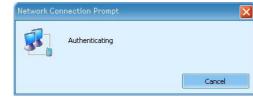


Figure E - 29 Network Connection Prompt

E

6. When the connection is successful a taskbar notification will appear (as below).

Speed: 7.2 Mbps

📠 👚 0.00 kbps -

7. You can then access the internet, download e-mail etc. as per any internet connection.

🗓 FE is now connected 🔀

- 8. While you are connected the indicators in the Mobile Partner window will display uploading and downloading icons and a network icon in the taskbar
- 9. To disconnect click the **Disconnect** icon, or right click the taskbar icon and select **Disconnect**.

👃 0.00 kbps

10. The program will disconnect from the service provider.

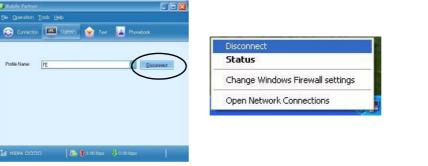




Figure E - 31 **Disconnect**

- 11. The module will still be on, and you will need to press the **Fn** + we combination to turn it off.
- 12. If you click the **Mobile Partner** close icon **≥** a message will be displayed asking you to click **OK** to confirm the program exit and to **terminate the connection**.

Figure E - 32 Exit Prompt



- 13. Exiting the program terminates the connection, but DOES NOT turn off the 3.75G/ HSPA module, and you will need to press the Fn + key combination to turn off the module (pay careful attention to this aboard aircraft - see "Wireless Device Operation Aboard Aircraft" on page E - 47).
- 14. If the module is on and the computer enters a power-saving state, then the power status of the module on resuming from the power-saving state will be as below:
- If the 3.75G/HSPA module is on and the computer is **Shut Down or Restarted**; the module will be **off** when the computer starts up.
- If the 3.75G/HSPA module is on and the computer enters **Sleep or Hibernate**; the module will be **off** when the computer resumes from sleep.

E

Text Messaging Service

In addition to standard internet services you may also send and receive SMS text messages using the **Mobile Partner** program, if your service supports SMS.

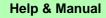
Reading SMS Messages

- 1. An icon 🔀 will blink at the bottom of the **Mobile Partner** interface to notify you of any new messages received.
- 2. Click the **Text** icon **o** in the **Mobile Partner** Interface.
- 3. Select the Local > Inbox or SIM/USIM Card folder and select any message to read it.
- 4. Right-click the message and choose an option to reply, forward or delete the message.

Creating and Sending SMS Messages

- 1. Click the **Text** icon **o** in the **Mobile Partner** Interface.
- 2. Click the **New** button **New**.
- 3. Enter the recipient's number in the **Send To...** field or click the **Send To...** button to select an entry from the phone book, and click **OK**.
- 4. Type in the message details.
- 5. Click the Send button, Save button to send the message later or Close > Yes to save in the Draft folder.

For more details on SMS click the **Help** menu and select **Online Help** or press **F1** and select **SMS**.



A

Right-click the taskbar icon to bring up the menu to select **Help**.

Insert the Device Drivers & Utilities + User's Manual disc and click **Option Driv**ers (button). Click **Unlock** (button) and then click **4.FingerPrint > Yes**.

Click **Documentation** to open the folder containing the manual in .pdf format.

To install the Adobe Acrobat Reader software to read the file, insert the *Device Driv*ers & *Utilities* + *User's Manual disc* and click **User's Manual** (button), and click **Install Acrobat Reader** (button).

Fingerprint Reader Module

If you have included the fingerprint reader in your purchase option (**optional** for **Models C, D, F & H** only) you will need to install the driver as per the instructions below.

Make sure you have administrator's rights to your computer, and have a *Windows* password enabled for full security protection.

Before beginning the enrollment process it is recommended that you go through the fingerprint tutorial. To run the tutorial click **Start > Programs/All Programs > Protector Suite QL > Fingerprint Tutorial** after installing the driver.

Fingerprint Reader Driver Installation

- 1. Insert the *Device Drivers & Utilities + User's Manual* disc into the CD/DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click **4.FingerPrint > Yes**.
- 4. Click Software Installation.
- 5. Click Next > Next > Next.
- 6. Click **Finish > Yes** to restart the computer.
- 7. See overleaf for information on enrolling fingerprints etc.

User Enrollment

- 1. Click Start > Programs/All Programs > Protector Suite QL > User Enrollment, or double-click the taskbar icon .
- 2. Click Initialize.
- 3. On the first run of the program you will be asked to click the button to accept the license, and then click OK.
- 4. Click Next and select "Enrollment to the hard disk", and click Finish.
- 5. If you have not set a *Windows* password you will be prompted to do so (**note**: If you have not set a password **Protector Suite QL** cannot secure access to your computer).
- 6. Click Next, and you will then be prompted to enter your *Windows* password and click Next.
- 7. Select either to use the fingerprint reader alone for authentication, or choose both the fingerprint reader and the *Windows* password, and then click **Next**.
- 8. Click **Next > Next** (if you have the "*Run interactive tutorial*' tickbox selected you will run through the Fingerprint Tutorial).
- 9. Click **Next** for each window of the tutorial (you can click the button to "*skip tutorial*" at any time).
- 10. Click the button above any of the fingers to begin the enrollment process for that finger.



Figure E - 33 - Fingerprint Enrollment

Е

- 11. Swipe the finger five times to enroll that finger.
- 12. Repeat the process for all the fingers you wish to enroll (see sidebar), and then click **Next** > **Finish**.
- 13. Click "Help" in the Fingerprint Control Center to get more information on any topic.
- 14. You can also run the **Tutorial**, or **Introduction** (to run the product tour video) to get more information.
- 15. Right-click the taskbar icon with the bring up the **Control Center** that allows you to **Edit Fingerprints**, **register applications**, manage **Password Bank**, **File Safe** and access the **Help** menu etc. You can also run the **Control Center** etc. from the **Protector Suite QL** item in the **Programs/All Programs** menu.



Figure E - 34 - Control Center & Biomenu

- 16. See "Help & Manual" on page E 58 for further details.
- 17. If you swipe your finger over the reader at any time you can access the **Biomenu** to **lock the computer**, **register websites**, access the **Personal Safe** open the **Control Center** and access the **Help** menu.

Fingerprint Control Center Features

Application Launcher

The **Application Launcher** allows you to register applications to be launched when assigned to a particular finger. Simply copy the application icon on to one of the registered fingers and ten click OK to close the application window. Once registered the application will launch when you swipe the appropriate finger across the sensor.

Password Bank

The Password Bank stores registrations of user names, passwords and other settings for web sites etc.

File Safe

File Safe is an encrypted area assigned on your hard drive that allows you to store files and folders to be protected by fingerprint protection.

For more information on these and other features simply access "**Help**" in the **Fingerprint Control Center** and select the item from the menu on the left.

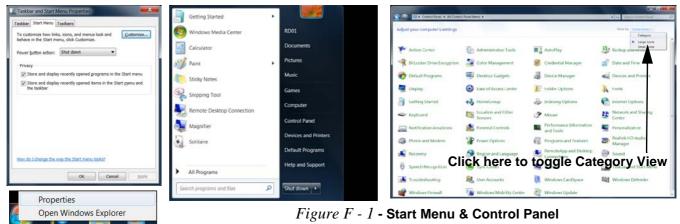
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Appendix F: Windows 7 Information

This Appendix contains information on the driver installation for the *Windows 7 OS*. Note that control panels (e.g. power and video) and configuration of certain items in *Windows 7* may be different from *Windows Vista*. Consult your *Windows 7* documentation, or item specific help for further information.

Windows 7 Start Menu & Control Panel

Most of the control panels, utilities and programs within *Windows* 7 (and most other *Windows* versions) are accessed from the **Start** menu. When you install programs and utilities they will be installed on your hard disk drive, and a shortcut will usually be placed in the **Start** menu and/or the desktop. Right-click the **Start menu** icon [26], and then select **Properties** if you want to customize the appearance of the **Start** menu.



In many instances throughout this manual you will see an instruction to open the **Control Panel**. The **Control Panel** is accessed from the **Start** menu, and it allows you to configure the settings for most of the key features in *Windows* (e.g. power, video, network, audio etc.). *Windows* 7 provides basic controls for many of the features, however many new controls are added (or existing ones are enhanced) when you install the drivers. To see all controls it may be necessary to toggle off *Category View* to view the control panel icons.

Video Features

This computer features two different (either SiS for Model A, B, E & G computers or NVIDIA for Models C, **D**, **F** & **H** computers) video options. You can switch display devices, and configure display options, from the Display control panel (in Appearances and Personalization) in Windows 7. For more detailed video information see For more detailed video information see "SIS Video Driver Controls" on page B - 1 or "NVIDIA Video Driver Controls" on page C - 1. View

To access Display (Control Panel) and Screen Resolution in Windows:

- 1 Click Start and click Control Panel.
- 2. Click **Display** (icon) - In the **Appearances and Personalization** category.
- 3. Click Adjust Screen Resolution/Adjust resolution. OR
- Alternatively you can right-click the desktop and select **Screen resolution** (see right). 4.
- Use the dropbox to select the screen **Resolution** (1) (Figure F 2 on page F 4). 5.
- Click Advanced settings (2) (Figure F 2 on page F 4) to bring up the Advanced properties tabs. 6.

To access the SiS VGA Control Center (Models A, B, E & G):

1. The SiS VGA Control Center can be accessed by right-clicking the SIS Tray taskbar icon 🔤 3 (Figure F - 2 on page F - 4), and selecting Control Center (or from the SiS VGA Control Center in the Windows control panel). Use the $\mathbf{p} + \mathbf{P}$ key combination to switch displays for SiS video (see page **F** - 8).

To access the *NVIDIA Control Panel (Models C, D, F & H)*:

The NVIDIA Control Panel can be accessed by right-clicking the desktop, and then clicking NVIDIA Control 1. Panel (or from the NVIDIA Control Panel in the Windows control panel 4 Figure F - 2 on page F - 4).



Screen Resolution

Besides the built-in LCD, you can also use an **external VGA monitor** (CRT)/**external Flat Panel Display** as your display device.

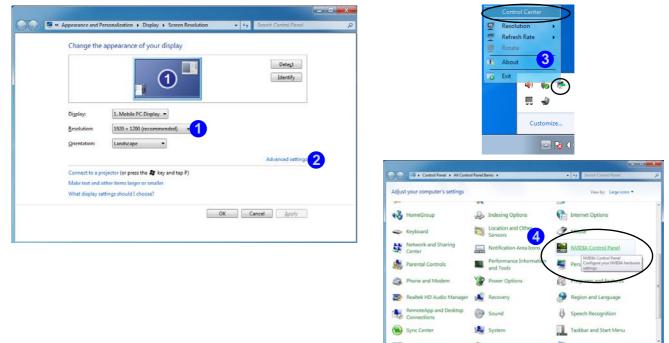


Figure F - 2 - Screen Resolution & NVIDA Control Panel/SiS Tray Icon Menu

F

Attaching Other Displays

Configuring an External Display in Windows 7

- 1. Attach your external display to the external monitor port and turn it on.
- 2. Go to the **Screen resolution** control panel.
- 3. Click the **Detect** button.
- 4. The computer will then detect any attached displays.

| Screen Resolution | 49 Search Control Panel | P |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Change the appearance of your display Display: Disp | 42 Search Control Panel Detest Identify | Video Options Note that card types, specifications and drivers are subject to continual updates and changes. Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards supported. Image: Check with your service center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards support center for the latest details on video cards suport cen |
| What display settings should I choose? | OK Cancel Apply | eo running the <i>Windows</i> 7 OS. This is to prevent problems when the system wakes from a power-saving state. |

Figure F - 3 - Screen Resolution - Multiple Displays

5. You can configure the displays from the **Multiple Displays** menu.



Figure F - 4 - Screen Resolution - Multiple Display Options

- Duplicate these displays Shows an exact copy of the main display desktop on the other display(s)
- Extend these displays Treats both connected displays as separate devices
- Show desktop only on 1/2 Only one of your displays is used.

See "*Attaching Other Displays*" on page *B* - 5 for more details on the above modes when using the SiS driver to configure attached displays (see *Appendix B*"SIS Video Driver Controls" from page *B* - 1 for other details). See over for information on using the NVIDIA driver to configure attached displays (see *Appendix C*"NVIDIA *Video Driver Controls*" from page *C* - 1 for other details).

Using the Windows Logo Key 😹 + P Key Combination to Switch Displays

You can also use the $\mathbf{x} + \mathbf{P}$ key combination to quickly change display configuration and modes.

1. Attach your external display to the external monitor port and turn it on.

Duplicate

- 2. Press the $(\mathbf{r} + \mathbf{P})$ key combination.
- 3. An on-screen menu will pop up.

Disconnect Projector

4. Use the cursor keys (or $\mathbf{z} + \mathbf{P}$) to select the appropriate configuration from the menu, and press Enter to confirm the selection.

Fxtend

Projector only



Figure F - 5 + P Display Configuration Selection



Display Not Shown

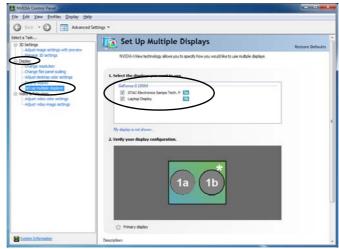
If the attached display does not appear in the "1.Select the displays you want to use." window, click "My Display is not shown..." and then click the appropriate button to force detection of the missing display.

> *Figure F - 6* Set Up Multiple Displays

Configuring an External Display using the NVIDIA Control Panel

Alternatively you can use the **NVIDIA control panel** to configure any attached displays.

- 1. Attach your external display to the external monitor port and turn it on.
- 2. Go to NVIDIA Control Panel (see page F 3).
- 3. Double-click **Display** (if the sub-menus are not visible), and then click **Set up multiple displays**.
- 4. Any attached display will appear under "1.Select the displays you want to use."



- 5. Click the tickbox alongside any display you wish to use.
- 6. Click **Apply > Yes** to save any changes made.

Enabling Clone or Dualview Modes

- 1. Attach your external display to the external monitor port and turn it on.
- 2. Go to NVIDIA Control Panel (see page F 3).
- 3. Double-click **Display** (if the sub-menus are not visible), and then click **Set up multiple displays**.
- 4. Any attached display will appear under "1. Select the displays you want to use."
- 5. Click the tickbox alongside any display you wish to use.
- 6. Right-click one of the display icons and click "Clone...." (a tick will appear alongside it) to Clone the display or click to remove the tick to use Dualview mode,
- 7. Click **Apply > Yes** to save the changes.

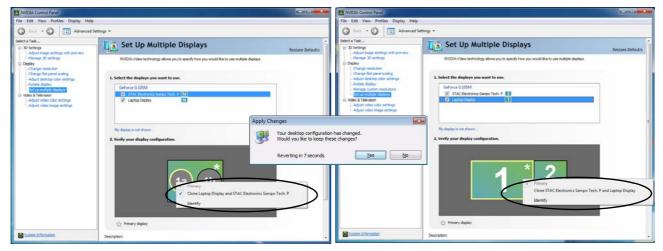


Figure F - 7 - Enabling Clone/Extended Modes

Windows 7 Driver Installation

Insert the *Device Drivers & Utilities + User's Manual* disc into an attached CD/DVD drive and click *Install Drivers/Option Drivers* (button).

If you wish to install the drivers manually see overleaf for the driver path information.



Figure F - 8 - Drivers Installer Screen 1

- Check the driver installation order from *Table F 1*, on page F - 11 (the drivers must be installed in this order) which is the same as that listed in the *Drivers Installer* menu below.
- 2. Click to select the driver you wish to install, after installing each driver it will become grayed out (if you need to reinstall any driver, click the **Unlock** button).
- 3. Follow the instructions for each individual driver installation procedure as listed on the following pages.





| Driver - Windows 7 | Page # |
|---------------------------|----------------------------|
| Video | Page F - 12 |
| Audio | Page F - 12 |
| Modem | Page F - 13 |
| TouchPad | Page F - 13 |
| CardReader | Page F - 13 |
| Hot Key | Page F - 13 |
| PC Camera Module | Page F - 16 |
| Wireless LAN Module | Page F - 18 |
| 3.75G/HSPA Module | Page F - 20 Page F - 21 |
| Fingerprint Reader Module | Page F - 22 |

Table F - 1 - Driver Installation

Windows 7 Information

Updating/Reinstalling Individual Drivers

If you wish to update/reinstall individual drivers it may be necessary to uninstall the original driver. To do this go to the **Control Panel** in the *Windows OS* and doubleclick the **Programs and Features** item (**Programs** > **Uninstall a program**). **If you see the individual driver listed** (if not see below), uninstall it, following the on screen prompts (it may be necessary to restart the computer). Go to the appropriate section of the manual to complete the update/reinstall procedure for the driver in question.

If the driver is not listed in the **Programs and Features** item:

- 1. Click Start and click Control Panel.
- 2. Double-click **System** (icon); System (icon) is in **System and Security** (category).
- 3. Click Device Manager (in the left menu).
- 4. Double-click the **device** you wish to update/reinstall the driver for (you may need to click "+").
- 5. Look for the **Update Driver** button (check the **Driver** tab) and follow the on screen prompts.

Driver Installation Procedure

Insert the *Device Drivers & Utilities* + *User's Manual disc* and click *Install Drivers* (button).

Driver Installation General Guidelines

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The driver installation procedure outlined in this Chapter are accurate at the time of going to press.

Drivers are always subject to upgrade and revision so the exact procedure for certain drivers may differ slightly. As a general guide follow the default on screen instructions for each driver (e.g. **Next > Next > Finish**) unless you are an advanced user. In many cases a restart is required to install the driver.

Video

1. Click **1.Install Video Driver > Yes**.

Models A, B, E & G (SiS):

- 2. Click **Yes** (click **Yes** if you want to view the ReadMe file).
- 3. Click Yes to restart the computer.

Models C, D, F & H (NVIDIA):

- 4. Click **Next > Next**.
- 5. Click **Finish** to restart the computer.

Note: After installing the video driver go to the **Display Settings** control panel to adjust the video settings to the highest resolution.

Audio

- 1. Click **2.Install Audio Driver > Yes**.
- 2. Click Next.
- 3. Click **Finish** to restart the computer.

Modem

- 1. Click **3.Install Modem Driver > Yes**.
- 2. Click OK.
- 3. The modem is ready for dial-up configuration



CardReader

- 1. Click **5.Install Cardreader Driver > Yes**.
- 2. Click Install.
- 3. Click Finish.

Hot Key

- 1. Click 6.Install Hotkey Driver > Yes.
- 2. Click Next > Install.
- 3. Click **Finish > Finish** to restart the computer.

TouchPad

- 1. Click **4.Install Touchpad Driver > Yes**.
- 2. Click Next.
- 3. Click the button to accept the license agreement and click **Next**.
- 4. Click **Finish > Restart Now** to restart the computer.

Optional Drivers

See the pages indicated for the driver installation procedures for any modules included in your purchase option. Where *Windows 7* information differs from *Windows Vista* it will be included in this chapter; if *Windows 7* information is the same as *Windows Vista* then refer to **Chapter 7** as indicated on the following page.



Figure F - 10 - Drivers Installer - Option Drivers Menu

PC Camera Module

Before installing the **PC Camera** driver, make sure that the optional PC Camera is on. Use the Fn + F10 key combination (see *"Function/Hot Key Indicators" on page 1 - 17*) to toggle power to the PC Camera module. Make sure you install the drivers in the order indicated in *Table F - 1, on page F - 11*.

There are a number of different camera modules available with this computer model series. You will have the appropriate application installed for your camera. Make sure you access the application via the WebCam desktop shortcut.

PC Camera Screen Refresh

The PC Camera module supports a frame rate of 12 fps. If you find that the screen refresh rate is subject to lag or stuttering, then **reduce the window size**, or adjust the **Output Size** and/or **Color Space Compression**.

To reduce **Output Size** and/or **Color Space Compression** run the **WebCam** application, click **Options** and select **Video Capture Pin**. Adjust the settings from the appropriate pull-down menu.

PC Camera Driver Installation

- 1. Insert the Device Drivers & Utilities + User's Manual disc into the CD/DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click **1.PC Camera, Web cam > Yes**.
- 4. Choose the language you prefer and click **Next > Next**.
- 5. Click **Finish** to restart the computer.
- 6. Run the camera application program from the desktop shortcut (if the hardware is turned off use the Fn + F10 key combination to turn it on again).

See "PC Camera Module" on page 7 - 6 for driver installation and configuration information.

Wireless LAN Module

If you have included a **802.11b/g WLAN module** in your purchase option, make sure that the Wireless LAN module is on before installing the driver.

Use the Fn + F11 key combination (see *"Function/Hot Key Indicators" on page 1 - 17*) to toggle power to the Wireless LAN module. Make sure you install the drivers in the order indicated in *Table F - 1, on page F - 11*.

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Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the **Fn + F11** key combination to toggle power to the WLAN module, and check the indicator to see if the module is powered on or not (see *Table 1 - 6, on page 1 - 17/ Table 1 - 4, on page 1 - 12*).

Important Notice - 3.75G/HSPA & Bluetooth/Wireless LAN Modules

In order to comply with FCC regulations you should NOT operate the 3.75G/HSPA module and the Bluetooth/Wireless LAN modules at the same time as this may disrupt radio frequency, and cause interference. When the 3.75G/HSPA module is powered on, make sure that the Bluetooth/Wireless LAN modules are powered off.

802.11b/g Driver Installation

If you see the message "Found New Hardware" click Cancel to close the window.

- 1. Make sure the module is powered on, then insert the *Device Drivers & Utilities + User's Manual* disc into the CD/DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click **2.Wireless Lan > Yes**.
- 4. Choose the language you prefer and click Next.
- 5. Click **Next > Install**.
- 6. Click Finish.

Note: The operating system is the default setting for Wireless LAN control in *Windows* 7 (see your *Windows* 7 documentation).

3.75G/HSPA Module

If you have included an **optional 3.75G/HSPA** (High Speed Packet Access) module (see "*Communication*" *on page D* - 5 for specification details) in your purchase option, you will have the appropriate application provided for your particular module. Follow the instructions on page 7 - 21 to install the USIM card (which will be provided by your service provider), and then install the application.

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Important Notice - 3.75G/HSPA & Bluetooth/Wireless LAN Modules

In order to comply with FCC regulations you should NOT operate the 3.75G/HSPA module and the Bluetooth/Wireless LAN modules at the same time as this may disrupt radio frequency, and cause interference. When the 3.75G/HSPA module is powered on, make sure that the Bluetooth/Wireless LAN modules are powered off.

Before installing the **application**, make sure that the **3.75G/HSPA** module is on. Use the **Fn**+(\square) key combination (see "*Function/Hot Key Indicators*" on page 1 - 17) to toggle power to the **3.75G/HSPA** module. Make sure you install the drivers in the order indicated in *Table F* - 1, on page F - 11.

- **3G** Watcher See "*3G* Watcher Application Installation" on page *F* 20 for driver installation information and "*Setting Up a Carrier Profile*" on page 7 24 for instructions on using the **3G** Watcher application (note that some Windows Vista information may appear slightly different from Windows 7).
- Mobile Partner See "Mobile Partner Application Installation" on page F 21 for driver installation information and "Mobile Partner Application" on page 7 31 for instructions on using the Mobile Partner application (note that some Windows Vista information may appear slightly different from Windows 7).



The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the **Fn** + key combination to toggle power to the 3.75G/HSPA module, and check the indicator to see if the module is powered on or not (see **Table 1** - 6, on page 1 - 17/ Table 1 - 4, on page 1 - 12).

3G Watcher Application

With the **3.75G/HSPA** module and USIM card (supplied by your service provider) installed you may then install the **3G Watcher** application. The **3G Watcher** application allows you to directly access your HSPA internet service from the computer.

3G Watcher Application Installation

- Enable power to the module by pressing the Fn + key combination (the on screen icon will indicate the module's power status give the module about 10 seconds to power on). If a *Found New Hardware* window appears, click **Cancel** in all windows that appear, and then proceed to install the driver as below.
- 2. Insert the *Device Drivers & Utilities* + *User's Manual* disc into the CD/DVD drive.
- 3. Click Option Drivers (button).
- 4. Click **3.3G Driver > Yes**.
- 5. Click Next.
- 6. Click the button to accept the license agreement, and then click Install.
- 7. When the next screen appears wait (about 2 minutes) until the 3G Watcher application appears on screen (or you see the message "Your devices are ready to use") before clicking Finish (this allows the hardware to detect the 3.75G/HSPA module).
- 8. See *Page 7 23* for more information.

Mobile Partner

With the **3.75G/HSPA** module and USIM card (supplied by your service provider) installed you may then install the **Mobile Partner** application. The **Mobile Partner** application allows you to directly access your HSPA internet service from the computer.

Mobile Partner Application Installation

- Enable power to the module by pressing the Fn + key combination (the on screen icon will indicate the module's power status give the module about 10 seconds to power on). If a *Found New Hardware* window appears, click **Cancel** in all windows that appear, and then proceed to install the driver as below.
- 2. Insert the *Device Drivers & Utilities + User's Manual* disc into the CD/DVD drive.
- 3. Click **Option Drivers** (button).
- 4. Click **3. 3G Driver > Yes**.
- 5. Choose the language you prefer and click **OK**.
- 6. Click Next.
- 7. Click I Agree (button) to accept the license agreement.
- 8. Click **Next > Install**.
- 9. Click Finish.
- Access the Mobile Partner application from the Start menu (Start > Programs/All Programs > Mobile Partner), or by double-clicking the Mobile Partner icon on the desktop (see Page 7 - 31).



Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. Make sure the module(s) are OFF if you are using the computer aboard aircraft.

Use the Fn + key combination to toggle power to the 3.75G/HSPA module, and check the indicator to see if the module is powered on or not (see Table 1 - 6, on page 1 - 17/ Table 1 - 4, on page 1 - 12).

Fingerprint Reader Module

If you have included the (**optional**) fingerprint reader in your purchase option you will need to install the driver as per the instructions below.

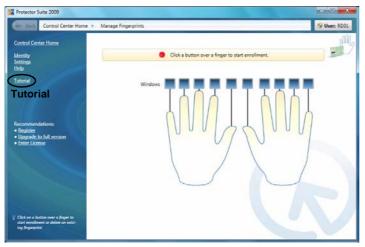
Make sure you have administrator's rights to your computer, and have a *Windows* password enabled for full security protection.

Fingerprint Reader Driver Installation

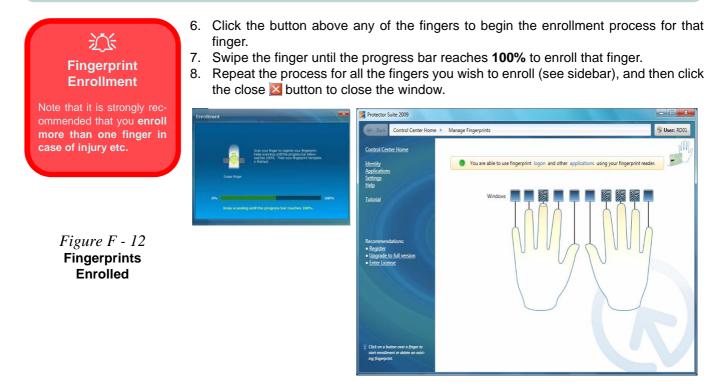
- 1. Insert the Device Drivers & Utilities + User's Manual disc into the CD/DVD drive.
- 2. Click **Option Drivers** (button).
- 3. Click **4.FingerPrint** > **Yes**.
- 4. Click **Next > Next > Next**.
- 5. Click **Finish > Yes** to restart the computer.

User Enrollment

- 1. Click Start > Control Center (Start > All Programs > Protector Suite > Control Center).
- 2. On the first run of the program you will be asked to click the **Accept** button to accept the license.
- If you have not set a *Windows* password you will be prompted to do so (note: If you have not set a password **Protector Suite** cannot secure access to your computer).
- 4. Click **Submit** when you have entered password.
- 5. You will then be prompted to enroll your fingerprints (you can click **Tutorial** to get help with fingerprint enrollment at any time).







- Click Start > Control Center (Start > All Programs > Protector Suite > Control Center) and then swipe a finger to allow you to Edit Fingerprints, register Applications, edit Settings and access the Help menu etc.
- 10. Click "Help" in Control Center Home to get more information on any topic.
- 11. You can also run the Tutorial, or Product Tour video to get more information.



Figure F - 13 Fingerprint Control Center & Biomenu

12. If you swipe your finger over the reader at any time you can access the **Biomenu** to **lock the computer, register websites**, access the **Personal Safe, E-Wallet** or **Strong Password Generator,** open the **Control Center** and access the **Help** menu.

Other Notes:

Bluetooth Module

Note: The operating system is the default setting for **Bluetooth** control in *Windows 7*, and does not require a driver. See your *Windows 7* documentation for specific information.

