

The **ADVENT** 4211 User Guide

Supported by



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CHAPTER 1

Preface

Regulations Information

FCC-B Radio Frequency Interference Statement

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 radiates radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

NOTE

- ♦ The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- ♦ Shield interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Safety Instructions



Read the safety instructions carefully and thoroughly. All cautions and warnings on the equipment or user's manual should be noted.



Keep the User's Guide that comes with the package for future reference.



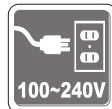
Keep this equipment away from humidity and high temperature.



Lay this equipment on a stable surface before setting it up.



The openings on the enclosure are used for air convection and to prevent the equipment from overheating. Do not cover the openings.



Make sure the power voltage is within safety range and has been adjusted properly to the value of 100~240V before connecting the equipment to the power outlet.



Never pour liquid into the opening that could damage the equipment or cause an electrical shock.



Do not leave the equipment in an unconditioned environment with a storage temperature above 60°C (140°F) or below 0°C (32°F), which may damage the equipment.



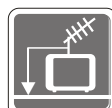
Place the power cord in a way that people are unlikely to step on it. Do not place anything on top of the power cord.



Always unplug the power cord before inserting any add-on card or module.



To prevent explosion caused by improper battery replacement, use the same or equivalent type of battery recommended by the manufacturer only.



When installing the coaxial cable to the TV Tuner, it is necessary to ensure that the metal shield is reliably connected to protective earthing system of the building.



Always keep the battery in a safe place.



Always keep the strong magnetic or electrical objects away from the equipment.



If any of the following situations arises, get the equipment checked by a service personnel:

- ◆ The power cord or plug is damaged.

-
- ◆ Liquid has penetrated into the equipment.
 - ◆ The equipment has been exposed to moisture.
 - ◆ The equipment has not worked well or you can not get it work according to User's Manual.
 - ◆ The equipment was dropped and damaged.
 - ◆ The equipment has obvious signs of breakage.
-

Safety Guideline for Using Lithium Battery

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



WEEE Statement

Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on August 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.

Trademarks

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- Microsoft® is a registered trademark of Microsoft Corporation. Windows® 2000/ XP/ Vista are registered trademarks of Microsoft Corporation.
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- PCMCIA and CardBus are registered trademarks of the Personal Computer Memory Card International Association.

CHAPTER 2

Introductions

Congratulations on becoming an user of this notebook, the finely designed notebook. This brand-new exquisite notebook will give you a delightful and professional experience in using notebook. We are proud to tell our users that this notebook is thoroughly tested and certified by our reputation for unsurpassed dependability and customer satisfaction.

Manual Map

This User's Manual provides instructions and illustrations on how to operate this notebook. It is recommended to read this manual carefully before using this notebook.

Chapter 1, Preface, gives users the basic safety information and caution that is interrelated to using this notebook. It is recommended to read these information or caution when using this notebook for the first time.

Chapter 2, Introductions, includes the descriptions of all the accessories of this notebook. It is recommended to check out that if you have all the accessories included when you open the packing box. If any of these accessories is damaged or missing, please contact the vendor where you purchased this notebook. Also, this chapter provides the specification of this notebook, and introduces the function buttons, quick launch buttons, connectors, LEDs and externals of this notebook.

Chapter 3, Getting Started, gives the basic operation instructions on using keyboard, touchpad, hard disk drive, and optical storage drive. Beside, the steps of installing and uninstalling the battery; and the procedures of connecting the various external devices, communication devices, and so on, are also provided to help users getting familiar with this notebook.

Chapter 4, BIOS Setup, provides information on BIOS Setup program and allows you to configure the system for optimum use.

Unpacking

First, unpack the shipping carton and check all items carefully. If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packing materials in case you need to ship the unit in the future. The package should contain the following items:



Notebook



Quick Start Manual



High-capacity Li-ion battery



AC adapter and power cord



Carry bag (optional)



All-in-one application disk, containing the full version of user's manual, drivers, utilities, and optional recovery function, etc..

Specification

Physical Characteristic

Dimension	260 (W) x 180 (D) x 19~31.5 (H) mm
Weight	940g (without battery pack)

CPU

Processor Type	Socket 478
Support Processor	Intel® Diamondville processor (45 nm)
L2 Cache	512KB
FSB Speed	Support 533 MHz

Core Chips

North Bridge	Intel® 945GSE
South Bridge	Intel® ICH7M

Memory

Technology	DDR2 667/ 800
------------	---------------

Memory	DDR2 SDRAM
Maximum	2GB

Power

AC Adapter	40W, 19V
Battery Type	3 cells (optional) 6 cells (optional)
RTC Battery	Yes

I/O Port

Monitor(VGA)	15 pin D-Sub x 1
USB	x 3 (USB version 2.0)
Mic-in	x 1
Headphone Out	x 1
RJ45	x 1
Card Reader	x 1 (SD/ MMC/ MS)
The supported memory cards may vary without notice.	

Storage (Items listed here may vary depending on the model users purchased)

HDD form factor	2.5", 9.5mm High, 5400rpm
SSD (solid-state disk)	Optional supported

Communication Port (Items listed here may vary without notice)

LAN	10/100 Ethernet
Wireless Lan	Supported

Audio

Sound Interface	ALC 888s
Internal Speaker	2 speakers with housing
Internal Speaker	Supported
Sound Volume	Adjust by volume button, K/B hot-key & SW

Video

Dual View Function	LCD or CRT will be auto detected when connected.
CRT Output	Supported

Display

LCD Type	10" wide
Brightness	Brightness controlled by K/B hot-keys

WebCam

CMOS (optional)	Supported
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Software & BIOS

USB Flash Boot	Yes, USB floppy boot up DOS only
BIOS	Fast Boot Support --- Yes

Others

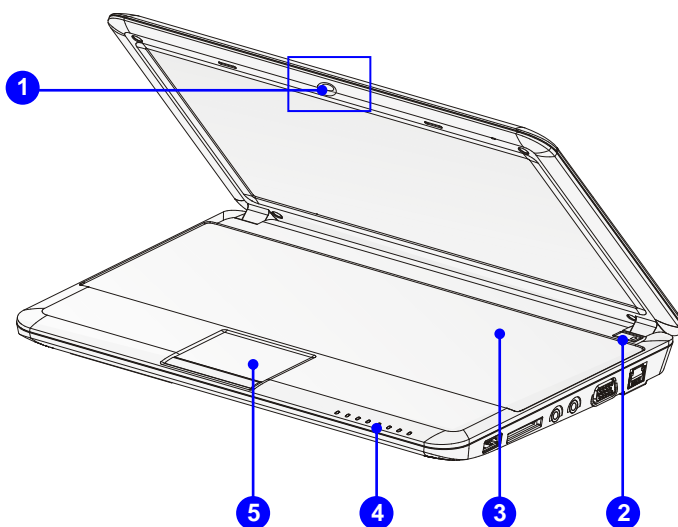
Kensington Lock Hole	x 1
Compliance	WHQL

Product Overview

This section provides the description of basic aspects of the notebook. It will help you to know more about the appearance of this notebook before using it. Please be aware that the notebook shown in this section may vary from the actual one that users purchased.

Top-open View

Press the Cover Latch to open the Display Panel. The figure of top-open view and description shown below will lead you to browse the main operating area of your notebook.



1. Webcam/ Webcam LED
2. Power Button / Power LED
3. Keyboard /
Quick Launch Buttons
4. Status LED
5. Touchpad

1. Webcam/ Webcam LED (optional)

- ♦ This built-in Webcam can be used for picture taking, video recoding or conferencing, and any other interactive applications.
- ♦ Webcam LED indicator, next to the webcam, grows orange when webcam function is activated; LED goes out when this function is turned off.

2. Power Button / Power LED

Power Button

- ♦ Press the power button to turn the notebook power ON and OFF.



Power LED:

- ♦ Glowing blue when the notebook power is turned on.
- ♦ Glowing green when the ECO function is activated; LED goes off when the ECO function is turned off.

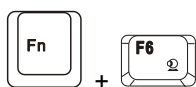
3. Keyboard

The built-in keyboard provides all the functions of a full-sized (US-defined) keyboard.

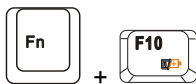
Quick Launch [Fn] Buttons

Use the [Fn] buttons on the keyboard to activate the specific applications or tools.

With the help of these quick launch buttons, users will be able to do work more efficiently.



Press and hold the **Fn** button, and then press the **F6** button to turn the Webcam function on. Press again to turn it off.



- ♦ Press and hold the **Fn** button, and then press the **F10** button repeatedly to enable or disable this ECO function recurrently when the notebook is powered with battery pack.



- ♦ Press and hold the **Fn** button, and then press the **F11** button repeatedly to enable or disable the Wireless LAN or Bluetooth function recurrently.

4. Status LED



Hard Disk/ Optical Drive Device In-use:

Blinking green when the system is accessing the hard disk drive or the optical drive device.



Scroll Lock: Glowing green when the Scroll Lock function is activated.



Num Lock: Glowing green when the Num Lock function is activated.



Caps Lock: Glowing green when the Caps Lock function is activated.

Battery Status



- ♦ Glowing green when the battery is being charged.
- ♦ Glowing amber when the battery is in low battery status.
- ♦ Blinking amber if the battery fails and it is recommended to replace a new battery. Consult the local dealer for purchasing an equivalent type of battery recommended by the manufacturer.
- ♦ Battery LED goes out when it is fully charged or when the AC adapter is disconnected.

Power On/ Off/ Suspend:



- ♦ Blinking green when the system is in suspend mode.
- ♦ Glowing green when the system is activated.
- ♦ LED goes out when the system is turned off.

Wireless LAN:



Wireless LAN

- ♦ Wireless LAN LED indicator glows green when Wireless LAN function is enabled.
- ♦ **Note:** For flight safety consideration, make sure this LED indicators go out when you are in flight.



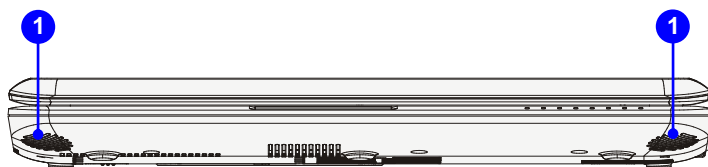
Webcam

- ♦ Press this button to turn the Webcam function on or off

5. Touchpad

This is the pointing device of the notebook.

Front Side View

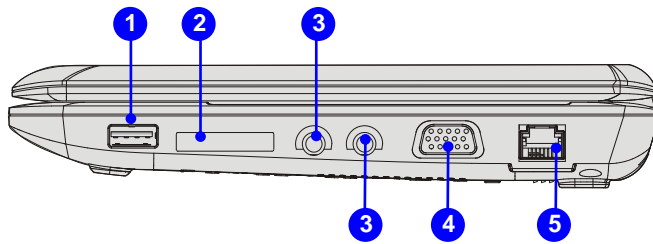


1. Stereo Speakers

1. Stereo Speakers

Give high quality sound blaster with stereo system and Hi-Fi function supported.

Right Side View



1. USB Port
2. Card Reader
3. Audio Port Connectors
4. VGA Port
5. RJ-45 Connector

1. USB Port

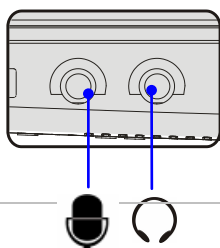
The USB 2.0 port allows you to connect USB-interface peripheral devices, such as the mouse, keyboard, modem, portable hard disk module, printer and more.

2. Card Reader

The built-in card reader may support various types of memory card, such as MMC (Multi-Media Card), XD (eXtreme Digital), SD (Secure Digital), SDHC (SD High Capacity), MS (Memory Stick) or MS Pro (Memory Stick Pro) cards. Contact the local dealer for further and correct information and be noted that the supported memory cards may vary without notice.

3. Audio Port Connectors

Make high quality sound blaster with stereo system and Hi-Fi function supported.



Headphone: A connector for speakers or headphones.



Microphone: Used for an external microphone.

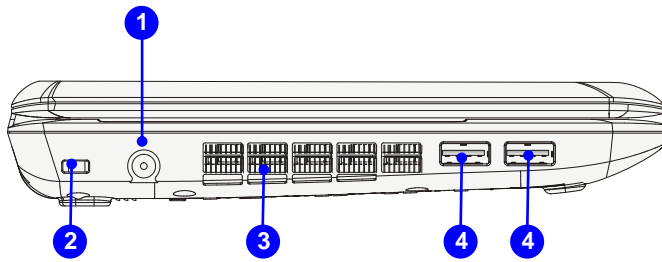
4. VGA Port

The 15-pin-D-sub VGA port allows you to connect an external monitor or other standard VGA-compatible device (such as a projector) for a great view of the computer display.

5. RJ-45 Connector

The 10/100 Ethernet connector is used to connect a LAN cable for network connection.

Left Side View



1. Power Connector
2. Kensington Lock
3. Ventilator
4. USB Port

1. Power Connector

To connect the AC adapter and supply power for the notebook.

2. Kensington Lock

This notebook provides a Kensington Lock hole, which allows users to secure the notebook in place with a key or some mechanical PIN device and attached through a rubberised metal cable. The end of the cable has a small loop which allows the whole cable to be looped around a permanent object, such as a heavy table or other similar equipment, thus securing the notebook in place.

3. Ventilator

The ventilator is designed to cool the system. DO NOT block the ventilator for air circulation.

4. USB Port

The USB 2.0 port allows you to connect USB-interface peripheral devices, such as the mouse, keyboard, modem, portable hard disk module, printer and more.

Rear Side View

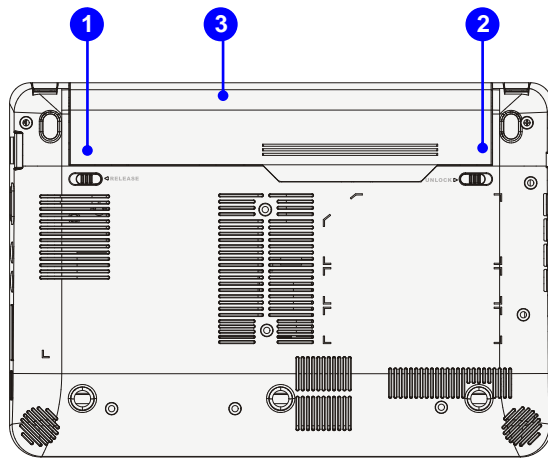


1. Battery Pack

1. Battery Pack

This notebook will be powered by the battery pack when the AC adapter is disconnected.

Bottom Side View



- 1. Battery Release Button
- 2. Battery Lock/Unlock Button
- 3. Battery Pack

1. Battery Release Button

It is a bounce-back device as a preparation for releasing the battery pack. Slide it with one hand and pull the battery pack carefully with the other.

2. Battery Lock/Unlock Button

Battery cannot be moved when the button is positioned on lock status. Once the button is slid to unlock position, the battery is removable.

3. Battery Pack

This notebook will be powered by the battery pack when the AC adapter is disconnected.

CHAPTER 3

Getting Started

Power Management

AC Adapter

Please be noted that it is strongly recommended to connect the AC adapter and use the AC power while using this notebook for the first time. When the AC adapter is connected, the battery is being charged immediately.

Note that the AC adapter included in the package is approved for your notebook; using other adapter model may damage either the notebook or other devices attached to it.

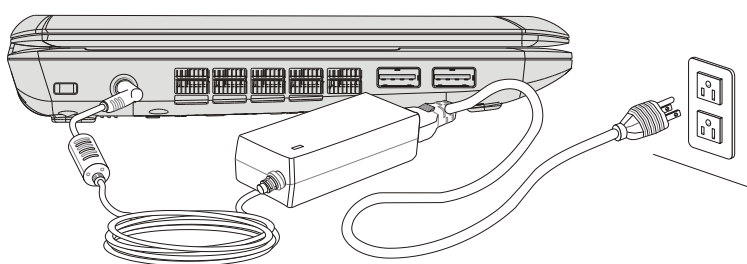
Connecting the AC Power

1. Unpack the package to find the AC adapter and power cord.
2. Attach the power cord to the connector of the AC adapter.
3. Plug the DC end of the adapter to the notebook, and the male end of the power cord to the electrical outlet.

Disconnecting the AC Power

When you disconnect the AC adapter, you should:

1. Unplug the power cord from the electrical outlet first.
2. Unplug the connector from the notebook.
3. Disconnect the power cord and the connector of AC adapter.
4. When unplugging the power cord, always hold the connector part of the cord. Never pull the cord directly!



Battery Pack

This notebook is equipped with a high-capacity Li-ion battery pack. The rechargeable Li-ion battery pack is an internal power source of the notebook.

Be aware of that this battery pack may be damaged if users try to disassemble the battery pack on their own.

Also, note that the limited warranty to the battery pack may also lose its efficacy when this battery pack is disassembled not by an authorized machinist.

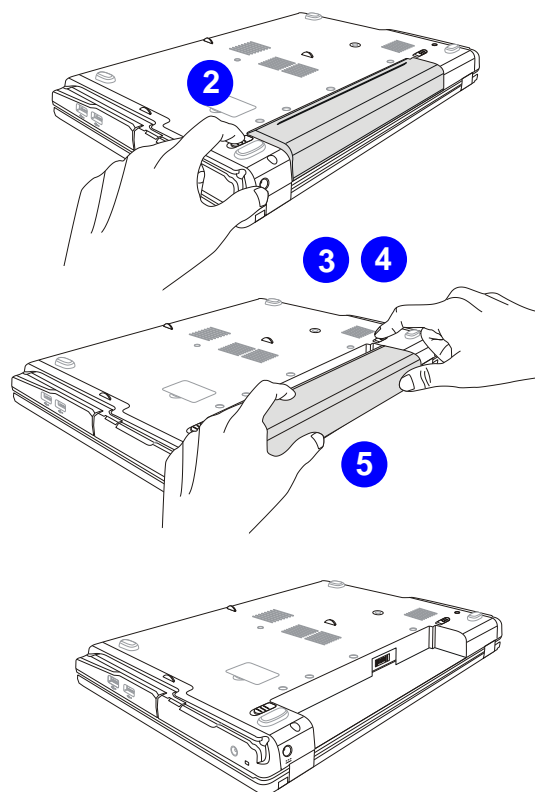
Please follow your local laws and regulations to recycle the unused battery pack.

Be noted that the figures show here are for reference only.

Releasing the Battery Pack

It is always recommended to have another battery in reserve for enough power supply. Please contact your local dealer to buy a battery pack that is compliant to your notebook. To remove the battery pack, following the steps below:

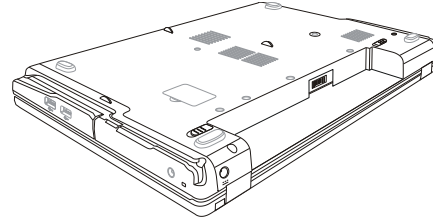
1. Make sure the notebook is turned off, and the AC power is disconnected.
2. Press the lock/unlock button in the unlocked position.
3. Locate the battery release button on the bottom side.
4. Push and hold the release button to the battery releasing direction as shown on the bottom side.
5. Carefully slide the battery pack out of the compartment and then pull the battery pack out.



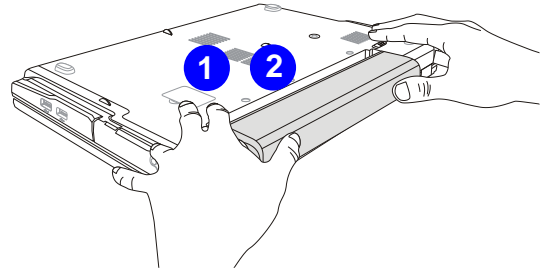
Replacing the Battery Pack

To insert the battery pack, following the steps below:

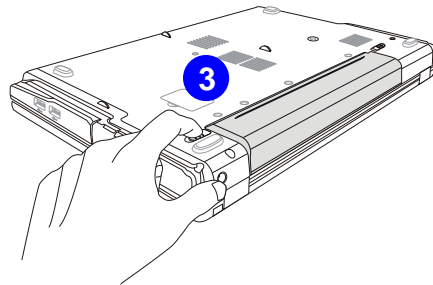
1. Use both hands to align and insert the battery pack into the compartment with correct orientation.



2. Slightly slide and press the battery pack into the right position until the battery back is fastened in the compartment.



3. Press the lock/unlock button to the Lock position.



Using the Battery Pack

Battery Safety Tips

Replacing or handling the battery incorrectly may present a risk of fire or explosion, which could cause serious injury.

- ♦ Only replace the main battery pack with the same or equivalent type of battery.
- ♦ Do not disassemble, short-circuit or incinerate batteries or store them to temperatures above +60° C (+140° F).
- ♦ Do not temper with batteries. Keep away from the reach of children.
- ♦ Do not use rusty or damaged batteries.
- ♦ Dispose of batteries according to local regulations. Check with your local solid waste officials for details about recycling options or for proper disposal in your area.

Conserving Battery Power

Efficient battery power is critical to maintain a normal operation. If the battery power is not managed well, the saved data and customized settings may be lost.

To optimize battery life and avoid a sudden power loss, read the tips below:

- ♦ Suspend system operation if the system will be idle for a while or shorten the suspend timer's time period.
- ♦ Turn off the system if you won't be using it for a period of time.
- ♦ Disable unnecessary settings or remove idle peripherals.
- ♦ Connect an AC adapter to the system whenever possible.

Charging the Battery Pack

The battery pack can be recharged while it is installed in the notebook. Please pay attention to the following tips before recharging the battery:

- ♦ If a charged battery pack is not available, save your work and close all running programs and shut down the system or Save-to-Disk.
- ♦ Plug in an external AC/DC power source.
- ♦ You can use the system, suspend system operation or shut down and turn off the system without interrupting the charging process.
- ♦ The battery pack uses Lithium-ion battery cells that have no "memory effect." It is unnecessary to discharge the battery before recharging. However, to optimize the life of battery, we suggest that consuming the battery power completely once a month is necessary.
- ♦ If you do not use the notebook for a long time, it is suggested to remove the battery pack from your notebook. This may be helpful to extend your battery life.
- ♦ The actual charging time will be determined by the applications in use.

Basic Operations

If you are a beginner to the notebook, please read the following instructions to assure your own safety, and make yourself comfortable during the operations.

Safety and Comfort Tips

The notebook is a portable platform that allows you to work anywhere. However, choosing a good workspace is important if you have to work with your notebook for a long period of time.

- ♦ Your work area should have enough illumination.
- ♦ Choose the proper desk and chair and adjust their height to fit your posture when operating.
- ♦ When sitting on the chair, adjust the chair's back (if available) to support your back comfortably.
- ♦ Place your feet flat and naturally on the floor, so that your knees and elbows have the proper position (about 90-degree) when operating.
- ♦ Put your hands on the desk naturally to support your wrists.
- ♦ Adjust the angle/position of the LCD panel to have an optimal view.
- ♦ Avoid using your notebook in the space where may cause you discomfort (such as on the bed).
- ♦ The notebook is an electrical device, please treat it with great care to avoid personal injury

1. Keep your hands and feet with optimal comfort.
2. Adjust the angle and position of LCD panel.
3. Adjust the desk's height.
4. Sit straight and keep a good posture.
5. Adjust the chair's height.



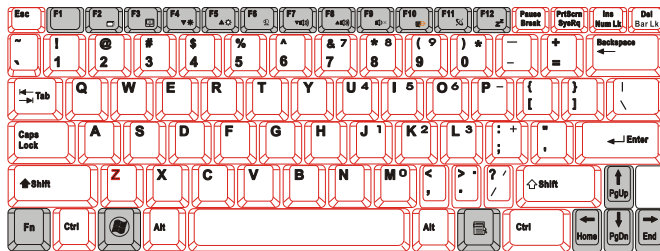
Having a Good Work Habit

Have a good work habit is important if you have to work with your notebook for long periods of time; otherwise, it may cause discomfort or injury to you. Please keep the following tips in mind when operating.

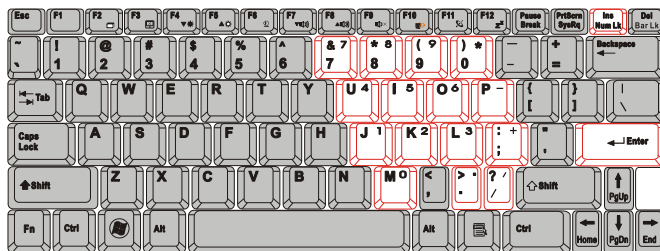
- ♦ Change your posture frequently.
- ♦ Stretch and exercise your body regularly.
- ♦ Remember to take a break after working for a period of time.

Knowing the Keyboard

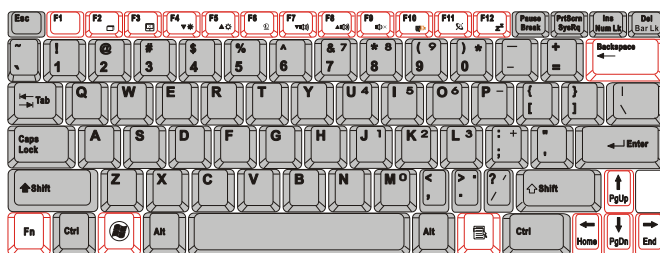
This notebook provides a full-functioned keyboard. This keyboard can be divided into four categories: **Typewriter keys**, **Cursor keys**, **Numeric keys** and **Function keys**.



Typewriter keys



Numeric keys



Cursor keys /
Function keys

Typewriter Keys

In addition to providing the major function of the keyboard, these typewriter keys also provide several keys for special purposes, such as [Ctrl,] [Alt,] and [Esc] key.

When the lock keys are pressed, the corresponding LEDs will light up to indicate their status:









- **Num Lock:** Press and hold the [Fn] key and press this key to toggle the Num Lock on and off. When this function is activated, you can use the numeric keys that are embedded in the typewriter keys.
- **Caps Lock:** Press this key to toggle the Caps Lock on and off. When this function is activated, the letters you type are kept in uppercase.
- **Scroll Lock:** Press and hold the [Fn] key and press this key to toggle the Scroll Lock on and off. This function is defined by individual programs, and is usually used under DOS.

Numeric Keys




Find the numeric keys among the keyboard, and activate the Num Lock function to use these numeric keys to enter numbers and calculations.

Cursor Keys

The four cursor (arrow) keys and **[Home]**, **[PgUp]**, **[PgDn]**, **[End]** keys are used to control the cursor movement.



	Move the cursor left for one space.		Move to the previous page.
	Move the cursor right for one space.		Move to the next page.
	Move the cursor up for one line.		Move to the beginning of the line (or document).
	Move the cursor down for one line.		Move to the end of the line (or document).

The Backspace key, **[Ins]** and **[Del]** keys at upper right corner are use for editing purpose.









	This key is used to switch the typing mode between “insert” and “overtyp” modes.		Press this key to delete one character to the right of the cursor and move the following text left for one space.
	Press this key to delete one character to the left of the cursor and move the following text left for one space.		

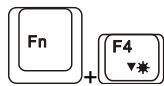
Function Keys

■ Windows Keys

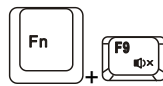
You can find the Windows Logo key () and one Application Logo key () on the keyboard, which are used to perform Windows-specific functions, such as opening the Start menu and launching the shortcut menu. For more information of the two keys, please refer to your Windows manual or online help.

■ [Fn] Key

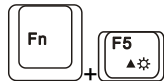
	+		Switch the display output mode between the LCD, external monitor and both.		+		Decrease the built-in speaker's volume.
	+		Enable or disable the touchpad function.		+		Increase the built-in speaker's volume.



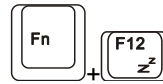
Decrease the LCD brightness.



Disable the computer's audio function.



Increase the LCD brightness.



Force the computer into suspend mode (depending on the system configuration).

Knowing the Touchpad

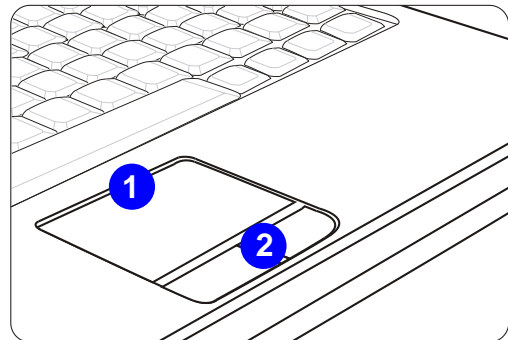
The touchpad integrated in your notebook is a pointing device that is compatible with standard mouse, allowing you to control the notebook by pointing the location of the cursor on the screen and making selection with its two buttons.

1. Cursor Movement Area

This pressure-sensitive area of the touchpad, allows you to place your finger on and control the cursor on the screen by moving one of your finger.

2. Enter Buttons

Acts as the Enter button of the keyboard.



Using the Touchpad

Read the following description to learn how to use the touchpad:

■ Configuring the Touchpad

You can customize the pointing device to meet your personal needs. For example, if you are a left-handed user, you may want to swap the functions of the two buttons. In addition, you can change the size, shape, moving speed and other advanced features of the cursor on the screen.

To configure the touchpad, you can use the standard Microsoft or IBM PS/2 driver in your Windows operating system. The **Mouse Properties** in **Control Panel** allows you to change the configuration.

■ Positioning and Moving

Place your finger on the touchpad (usually using the forefinger), and the rectangular pad will act as a miniature duplicate of your display. When you move your fingertip across the pad, the cursor on the screen will move simultaneously to the same direction. When your finger reaches the edge of the pad, lift your finger and place it on a proper location of the touchpad to continue the movement.

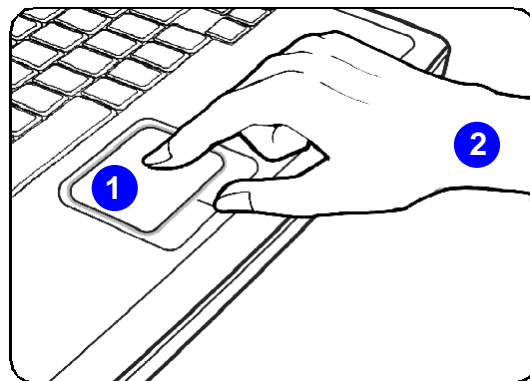
■ Point and Click

When you have moved and placed the cursor over an icon, a menu item or a command that you want to execute, simply tap slightly on the touchpad or press the left button to select. This procedure, called as point and click is the basics of operating your notebook. Unlike the traditional pointing device such as the mouse, the whole touchpad can act as a left button, so that your each tap on the touchpad is equivalent to pressing the left button. Tapping twice more rapidly on the touchpad is to execute a double-click.

■ Drag and Drop

You can move files or objects in your notebook by using drag-and-drop. To do so, place the cursor on the desired item and slightly tap twice on the touchpad, and then keep your fingertip in contact with the touchpad on the second tap. Now, you can drag the selected item to the desired location by moving your finger on the touchpad, and then lift your finger from the touchpad to drop the item into place. Alternately, you can press and hold the left button when you select an item, and then move your finger to the desired location; finally, release the left button to finish the drag-and-drop operation.

1. Move the cursor by sliding your fingertip.
2. Put your wrist on the desk comfortably.



About Hard Disk Drive

Your notebook is equipped with a 2.5-inch hard disk drive. The hard disk drive is a storage device with much higher speed and larger capacity than other storage devices, such as the floppy disk drive and optical storage device. Therefore, it is usually used to install the operating system and software applications.

To avoid unexpected data loss in your system, please backup your critical files regularly.

Do not turn off the notebook when the hard disk In-use LED is on.

Do not remove or install the hard disk drive when the notebook is turned on. The replacement of hard disk drive should be done by an authorized retailer or service representative.

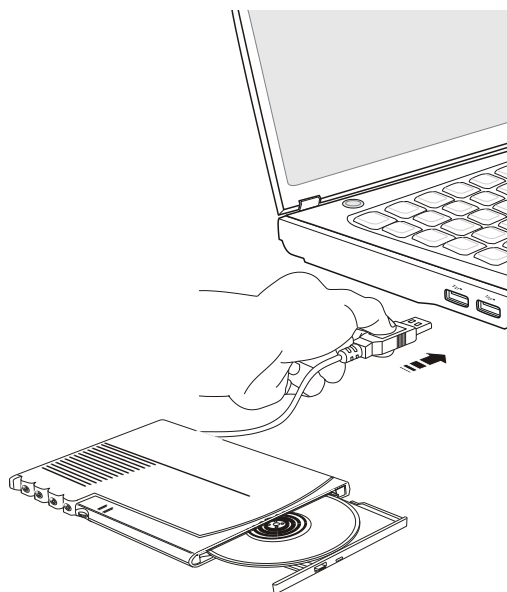
Connecting the External Devices

The I/O (input/output) ports on the notebook allow you to connect peripheral devices. All devices listed here are for reference only.

Using the External Optical Storage Device

An optional external optical storage device may come with the package of the notebook. The actual external optical storage device may vary depending on the model you purchased.

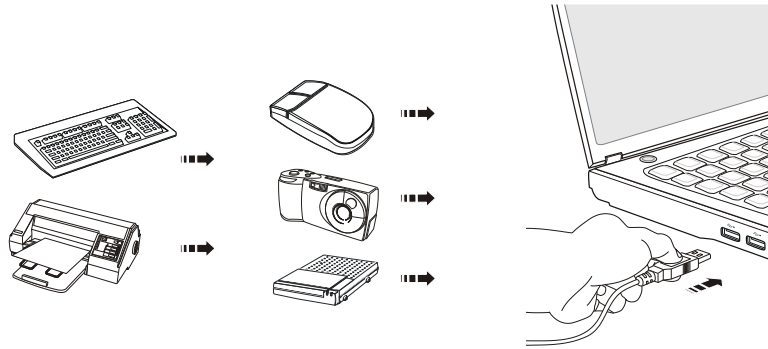
- **DVD Combo Drive:** This device allows you to read DVD and CD, and record CD format.
- **DVD Dual Drive:** In addition to read DVD and CD, this device allows you to record CD format and both the -R/RW and +R/RW DVD formats.
- **DVD Multi:** Works as a multi-functional DVD Dual Drive and a DVD RAM Drive.
- **Blu-ray:** It is a high-capacity optical disc that holds the high-definition video (HD) on a single-sided disk. Blu-ray supports the more advanced H.264 and VC-1 video encoding algorithms (codecs) as well as MPEG-2, which is used for DVD. It also supports the highest HDTV resolution.



Connecting the Peripheral Devices

Connecting the USB devices

This notebook provides USB ports for connecting various USB devices, such as mouse, keyboard, digital camera, webcam, printer, and external optical storage device, etc.. To connect these devices, install the drivers for each device first if necessary, and then connect the device to the notebook. This notebook is capable to auto detect the USB devices installed, and if there is no detection of the devices, please manually enable the USB devices by going to **Start Menu / Control Panel / Add Hardware** to add the new device.



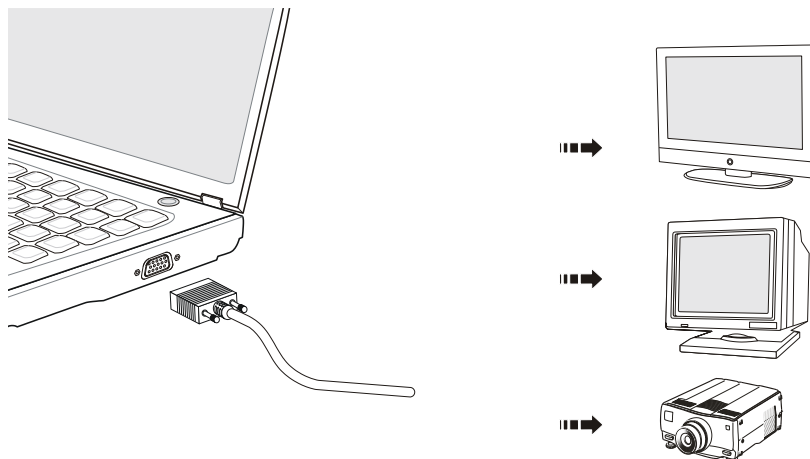
Connecting the External Display Devices

This notebook provides a VGA port for connecting a larger display with higher resolution.

The 15-pin-D-sub VGA port allows users to connect an external monitor or other standard VGA-compatible device (such as a projector) for a great view of the notebook display.

To connect the external display, make sure the notebook and the external display are both powered off, and then connect the display to the notebook.

Once the display is connected to the notebook, power on the notebook and the external display should respond by default. If not, you can switch the display mode by pressing **[Fn]+[F2]**. Alternately, you can change the display mode by configuring the settings in **Display Properties** of Windows operating system.



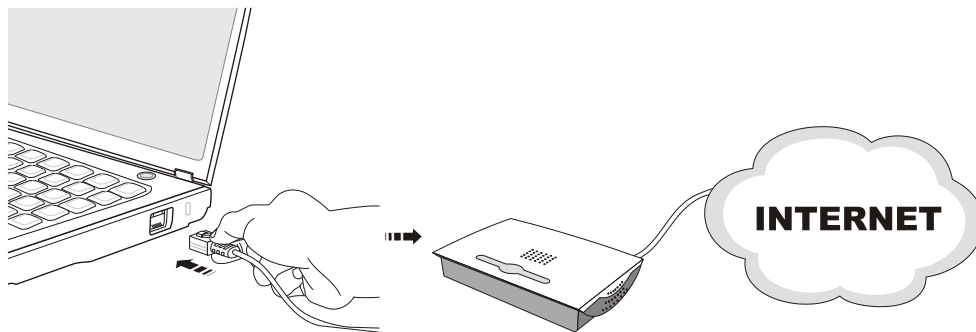
Connecting the Communication Devices

Using the LAN

The RJ-45 connector of the notebook allows you to connect the LAN (local area network) devices, such as a

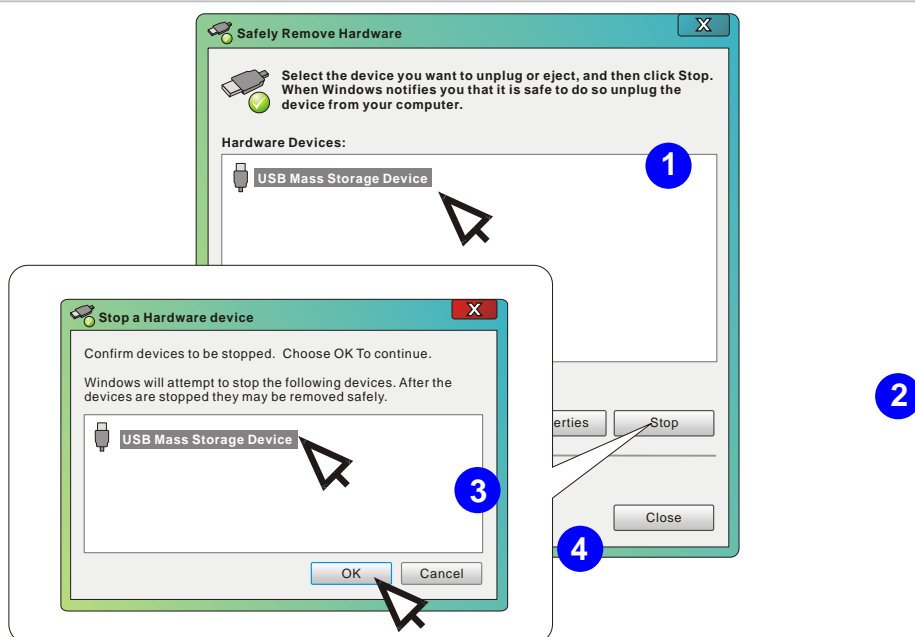
hub, switch and gateway, to build a network connection.

For more instructions or detailed steps on connecting to the LAN, please ask your MIS staff or network manager for help.



Safely Remove Hardware

When any peripheral device is connected to the notebook, the Safely Remove Hardware icon will appear on the taskbar. Double-click the icon to bring up the Safely Remove Hardware dialog box. You can see all connected peripheral devices here. If you want to remove any of the devices, move the cursor to the device and click **Stop**. The diagram shown below is for reference only.



Re-installing device drivers and software

If you are experiencing problems with a particular piece of software or hardware supplied with your Advent computer you can re-install it without the need to erase your hard drive and run a full System Recovery.

Drivers

1. Click **Start**.
2. Click **My Computer**.
3. Double-click the icon for **XP (C:)** drive.
4. You may see a message saying 'These files are hidden'. Click the **Show the contents of this folder** option.
5. Double-click the **Applications** folder.
6. Double-click the **Drivers** folder.
7. Inside this folder you will see folders for each device you can re-install, for example, **Audio**.
8. Double-click the folder and look for an icon called **Setup.exe** or **Install.exe**.
9. Double-click the icon and follow any on-screen instructions to re-install the driver.
10. After installing drivers it is recommended that you restart your computer.

Software

1. Click **Start**.
2. Click **My Computer**.
3. Double-click the icon for **XP (C:)** drive.
4. You may see a message saying 'These files are hidden'. Click the **Show the contents of this folder** option.
5. Double-click the **Applications** folder.
6. Double-click the **Tools** folder.
7. Inside this folder you will see folders for each piece of software you can re-install, for example, **MSWorks**.
8. Double-click the folder and look for an icon called **Setup.exe** or **Install.exe**.
9. Double-click the icon and follow any on-screen instructions to re-install the software.
10. After installing software it is recommended that you restart your computer.

The TechGuys Recovery Backup

Your Advent computer is supplied with a tool that allows you to create a backup of your Recovery Solution.

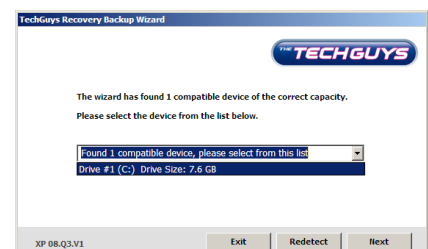
We advise that you do this before you start using your computer. You require a USB pen drive or SD card that has a capacity of **2GB** or greater.

Important!

- **The media (either USB pen drive or SD card) you use will be formatted. All information that it contains will be permanently destroyed.**

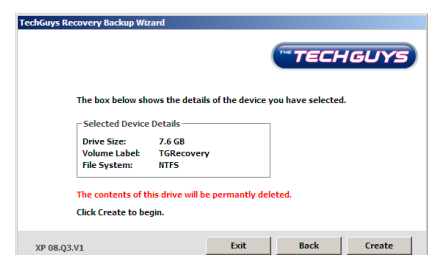
Recovery Backup

- To **Start**, either:
 - Double-click **the TechGuys Recovery Backup icon** on your desktop
 - Click **Start > All Programs > The TechGuys > TechGuys Recovery Backup**
- You will be asked to close any open programs. Click **OK** to restart the PC.
- After your computer has restarted it will automatically load the recovery program and display the **TechGuys Recovery Backup Wizard**.
- Insert your media into the PC (either USB pen drive or SD card). The wizard will only detect media that has a capacity of **2GB** or greater.
- Wait a few seconds and click **Start**.
- The wizard will detect any **removable** media with a minimum capacity of 2GB. You can choose the media you want to use from the pull-down menu and click **Next**.



Please note:

1. If the wizard does not find any media make sure the media is inserted correctly and then click **Redetect**.
 2. If you are using a USB pen drive try the device in another USB port.
 3. If the media is still not detected, click **Exit** and restart into Windows. Insert the media and confirm that Windows can detect the device correctly. Windows may need to format the media before it can read it.
- A confirmation window will appear. Click **Create** to begin.
All files and folders on the media will be deleted.
 - The wizard will now create your recovery backup.
This can take up to 10 minutes depending on the speed of the media used.



- When the recovery backup has been successfully created remove the device from the computer and store for future use.

Note

It is recommended that you now test your newly created Recovery Backup to ensure the process has completed successfully. To do this, simply re-insert the device used during the steps above and follow the steps **1 to 13** in the '*Running System Recovery from USB drive/SD Card*' section of this manual. In the unlikely event that the device does NOT load to the TechGuys Recovery front screen, simply re-follow the steps above to create the device again.

Running System Recovery from Windows

The normal method of running System Recovery is from the hard drive. However, we also advise that you create a backup of your Recovery — just in case you need it. Please see the '**The TechGuys Recovery Backup**' section.

Important!

- **Please save all important files and documents to an external device before you begin.**
- **The hard drive contents will be deleted. All information that it contains will be permanently destroyed. This includes your email, your documents, your internet favourites, and your music & videos files.**

Recovery

- To Start, either:
 - Double-click the **TechGuys Recovery** icon on your desktop
 - Click **Start > All Programs > The TechGuys > TechGuys Recovery**
- You will be asked to close any open programs. Click **OK** to restart the PC.
- After your computer has restarted it will automatically load into the recovery program.
- Put a tick in the box next to "**Start Full Destructive Recovery**".
- Click the right arrow to Start Recovery.
- When Recovery has completed, click the right arrow to restart your computer.
- Your computer will then return you to its initial out-of-box experience.



Note

Once you have used the System Recovery utility you will need to re-install any additional software and hardware that you may have added. Please refer to the documentation supplied with those products for further help.

Running System Recovery from outside of Windows

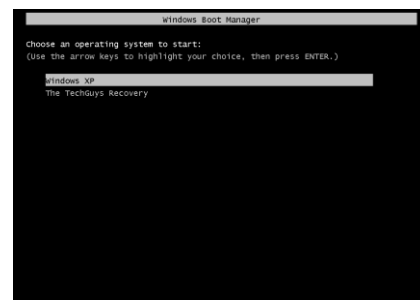
The normal method of running System Recovery is from the hard drive. However, we also advise that you create a backup of your Recovery — just in case you need it. Please see the ‘**The TechGuys Recovery Backup**’ section.

Important!

- Please save all important files and documents to an external device before you begin.
- The hard drive contents will be deleted. All information that it contains will be permanently destroyed. This includes your email, your documents, your internet favourites, and your music & videos files.

Recovery

- When the PC starts you will see a menu for two seconds. Press the **UP** or **DOWN** arrow and this will pause the menu and allow you to choose an option.
- Highlight “**The TechGuys Recovery**” and press the **Enter** key.
- This will load into the recovery program.
- Select “**Reinstall Windows**” by clicking on the circle to the left.
- Click the right arrow.
- Put a tick in the box next to “**Start Full Destructive Recovery**”.
- Click the right arrow to Start Recovery.
- When Recovery has completed, click the right arrow to restart the system.
- Your computer will then return you to its initial out-of-box experience.



Note

Once you have used the System Recovery utility you will need to re-install any additional software and hardware that you may have added. Please refer to the documentation supplied with those products for further help.

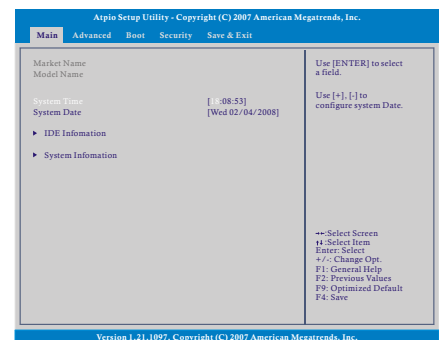
Running System Recovery from USB drive/SD Card

Important!

- Please save all important files and documents to an external device before you begin.
- The hard drive contents will be deleted. All information that it contains will be permanently destroyed. This includes your email, your documents, your internet favourites, and your music & videos files.

Recovery

1. Switch the PC off, then back on and start pressing the DEL key.
2. This will display a grey screen with blue title at the top. It should begin “**Aptio Setup Utility.**”
3. Press the right-arrow key on the keyboard until “**Boot**” is highlighted.
4. Highlight Boot Option #1.
5. Press **Enter**
6. Select “**USB HardDisk**” from the list and press ENTER.
7. Highlight Boot Option #2.
8. Press **Enter**
9. Select “**Hard Disk**” from the list and press ENTER.
10. Press the right-arrow key on the keyboard until “**Save & Exit**” is highlighted.
11. Insert the Recovery Backup media.
12. Press **Enter**.
13. This will load into the recovery program.
14. Select “**Reinstall Windows**” by clicking on the circle to the left.
15. Click the right arrow.
16. Put a tick in the box next to “**Start Full Destructive Recovery**”.
17. Click the right arrow to Start Recovery.
18. When Recovery has completed, remove the Recovery Backup media and click the right arrow to restart the system.
19. Your computer will then return you to its initial out-of-box experience.



Note

Once you have used the System Recovery utility you will need to re-install any additional software and hardware that you may have added. Please refer to the documentation supplied with those products for further help.

CHAPTER 4

BIOS Setup

About BIOS Setup

When to Use BIOS Setup?

You may need to run the BIOS Setup when:

- ♦ An error message appears on the screen during the system booting up and is requested to run SETUP.
- ♦ You want to change the default settings for customized features.
- ♦ You want to reload the default BIOS settings.

How to Run BIOS Setup?

To run the BIOS Setup Utility, turn on the notebook and press the [Del] key during the POST procedure.

If the message disappears before you respond and you still wish to enter Setup, either restart the system by turning it OFF and ON, or simultaneously pressing [Ctrl]+[Alt]+[Delete] keys to restart.

Be noted that the screen snaps and setting options in this chapter are for your references only. The actual setting screens and options on your Notebook may be different because of BIOS update.

Control Keys

You can use only the keyboard to control the cursor in the BIOS Setup Utility.



Press left arrow to select one menu title.



Press right arrow to select one menu title.



Press up arrow to select one item under the menu title.



Press down arrow to select one item under the menu title.



+



Increase the setting value or make changes.



Decrease the setting value or make changes.



- 1) Open the selected item to change setting options.
- 2) Bring up a sub-menu when available.



In some items, press this key to change setting field.



Bring up help screen providing the information of control keys.



- 1) Exit the BIOS Setup Utility.
 - 2) Return to the previous screen in a sub-menu.
-

BIOS Setup Menu

Once you enter the BIOS Setup Utility, the Main Menu will appear on the screen. Select the tags to enter the other menus.

Main Menu

Show system overview information about BIOS version, CPU features, memory size and setting of system time and date.

Advanced Menu

Configure IDE and USB settings.

Boot Menu

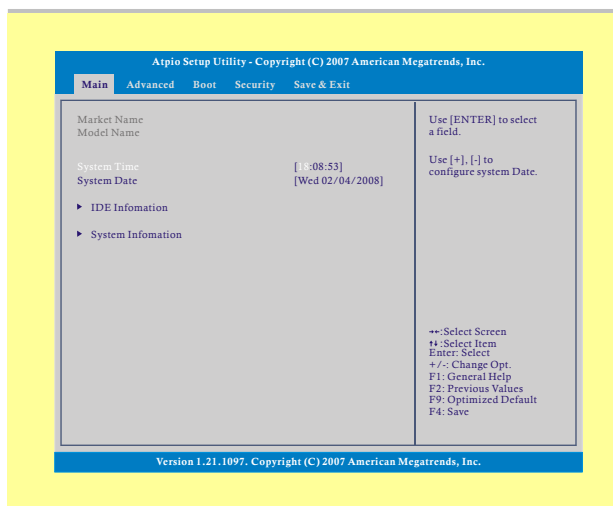
Set up boot type and boot sequence.

Security Menu

Install or clear Supervisor's and user's password settings.

Save & Exit Menu

Save or discard the changes before leaving the BIOS Setup Menu.



Main Menu

System Time

This item allows you to set the system time. The system clock will go on no matter you shut down the PC or get into sleep mode. The time format is [hour:minute:second].

- ◆ **System Date**

This item allows you to set the system date. The date format is [day:month:date:year].

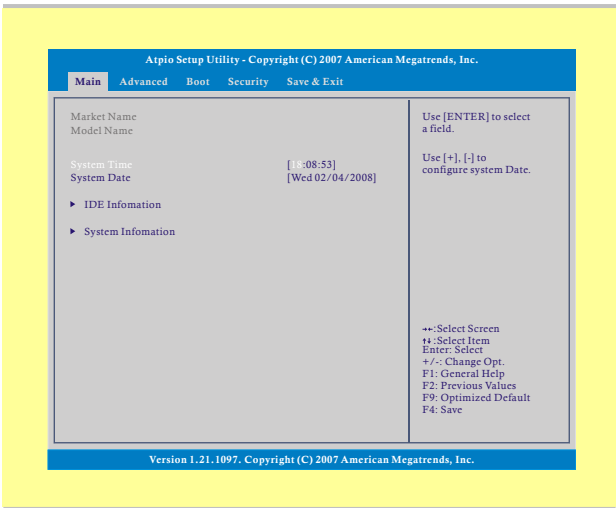
Day (Translation)	Day of the week, from Sun to Sat, which is determined by BIOS (read-only).
Month (Month)	The month from 01 (January) to 12 (December).
Date (Date)	The date from 01 to 31.
Year (Year)	The year can be adjusted by users.

- ◆ **IDE Information**

This item displays the types of the IDE devices installed in the notebook. Press **[Enter]** to bring up a window showing the detailed information of the device, including the device name, vendor, LBA mode, PIO mode and more, etc..

- ◆ **System Information**

This item provides the information about the firmware, processor, and system memory.



Advanced Menu

- ◆ **Intel(R) SpeedStep(tm) tech.**

This item allows you to enable or disable Intel SpeedStep technology. When set to **Disabled**, the system always operates in a conserve power mode (the processor works at FSB400-600MHz or FSB533-800MHz). If you want optimize the processor, set this item to **Enabled**, so that the processor's speed will be controlled by the use of your operating system and applications. Setting options: **Enabled**, and **Disabled**.

- ◆ **AHCI Mode** (Advanced Host Controller Interface)

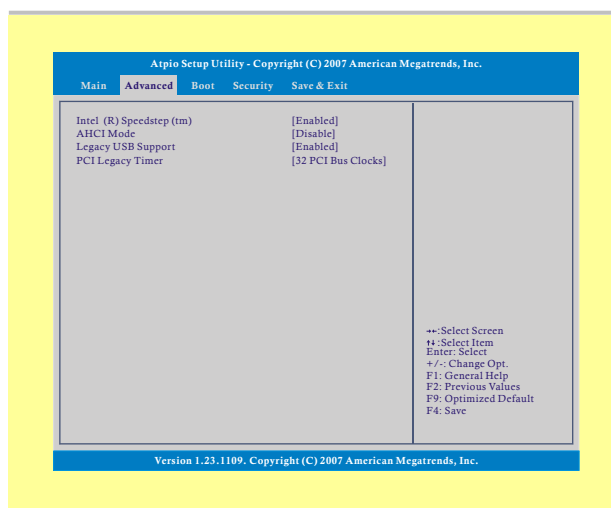
Use this item to enable or disable the AHCI Mode. Setting options: **Disabled** and **Enabled**. The default setting is **Disabled**.

- ◆ **Legacy USB Support**

Selecting **Enabled** allows users to use USB devices, such as mouse, keyboard, or portable disk, in DOS system; or allows users to boot the system by USB device. Setting options: **Enabled**, **Disabled** and **Auto**.

- ◆ **PCI Latency Timer**

This item controls how long each PCI device can hold the bus before another takes over. When set to higher values, every PCI device can conduct transactions for a longer time and thus improve the effective PCI bandwidth. For better PCI performance, you should set the item to higher values. Setting options: **32, 64, 96, 128, 160, 192, 224, and 248**.



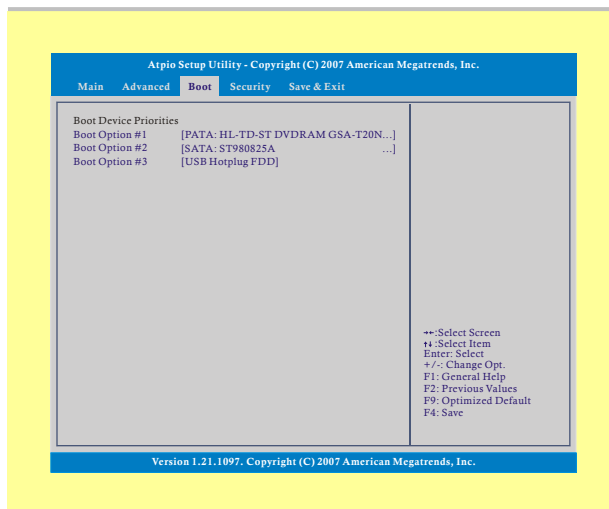
Boot menu

- ◆ **Boot Device Priority**

These items showing the sequence of boot devices where BIOS attempts to load the disk operating system.

- ◆ **1st, 2nd , and 3rd Boot Option**

These items allow you to set the sequence of boot devices where BIOS attempts to load the disk operating system.



Security menu

- ◆ **Supervisor Password**

When this function is selected, a message box will appear on the screen as below:



Type the password, up to six characters in length and press **[Enter]**. The password typed now will replace any previously set password from CMOS memory. You may also press **[ESC]** to abort the selection without entering a password.

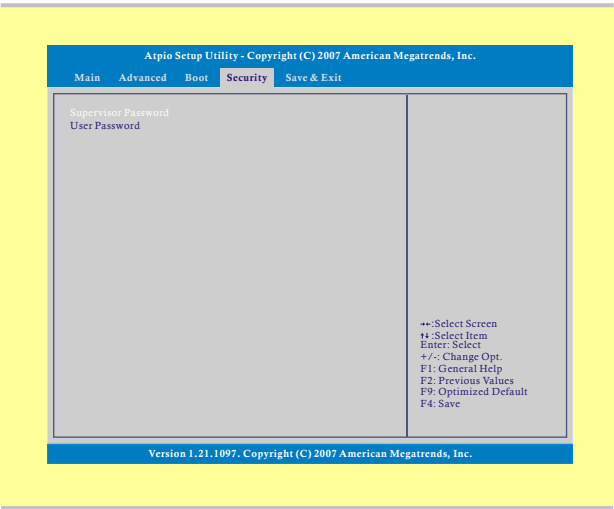
Settings are described below:

Setup	The password prompt appears only when end users try to run Setup.
Always	A password prompt appears every time when the notebook is powered on or when end users try to run Setup.

To clear the previous password, just press **[Enter]** when you are prompted to enter a new password. A message box will show up confirming the password will be disabled. Once the password is disabled, the system will boot and you can enter Setup without entering any password.

- ◆ **User Password**

Set the User Password under this item. Note that Supervisor Password allows the user to enter and change the settings of the setup menu; User Password only allows the user to enter the setup menu, but do not have the right to make changes.



Save & Exit menu

- ◆ **Exit and Save Changes**

Save the changes you have made and exit the utility.

- ◆ **Exit and Discard Changes**

Exit the utility without saving the changes you have made.

- ◆ **Discard Changes**

Abandon your changes and reload the previous configuration before running the utility.

- ◆ **Load setup Defaults**

Select this item to load the default settings.

