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# **Notebook PC User's Guide**

**Model: H110UI1**

**First Edition: March 2010**

***Draft Only***

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## **NOTICE**

Specifications and information found in this guide are subject to change **without** notice. Any changes therefore will be incorporated in future editions. The manufacturer assumes **no** responsibility for errors or omissions in this document.

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## **Standards**

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The following standards are adopted throughout this guide:

- Notebook in **boldface** (with or without capitalization) refers to the notebook computer that you have purchased.
  
- **Boldface** type is also used to highlight **important information** in this document.
  
- Whenever extra caution is called for, the information will be boxed in a dark frame preceded by "**Note:**" or "**Warning:**".

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## Chapter 1 Before You Begin

Please read this section before you start using your computer.

### 1.1 Checking What You Received

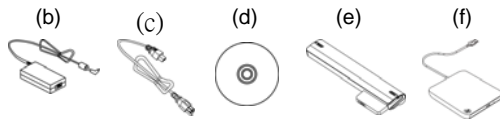
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Your **notebook** package should contain the following items:

(a)



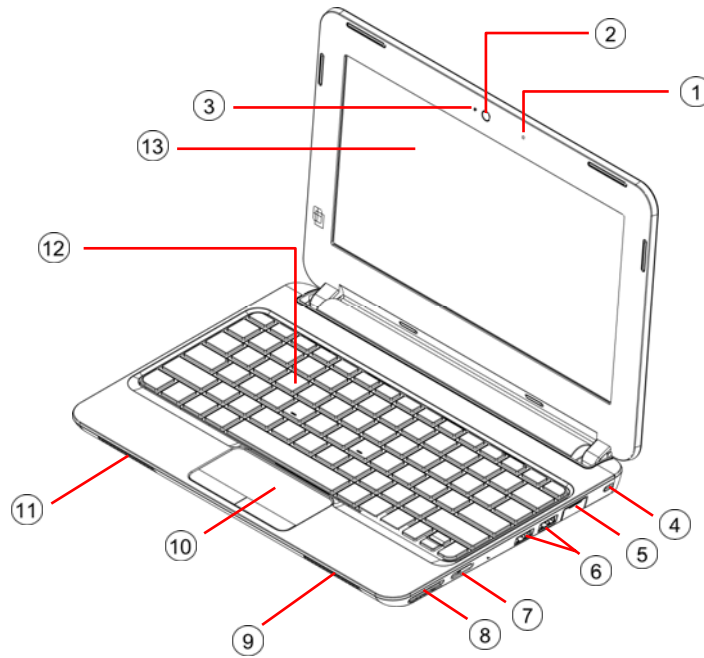
- (a) **The Notebook.**
- (b) AC Adapter.
- (c) AC Power Cord.
- (d) CD Disc (Including Drivers, and User's Guide).
- (e) Battery Pack.
- (f) External ODD (optional).



**Note:** You should keep the original factory carton and packing materials in case you need to ship the unit back for servicing.

## 1.2 Examining Your Computer

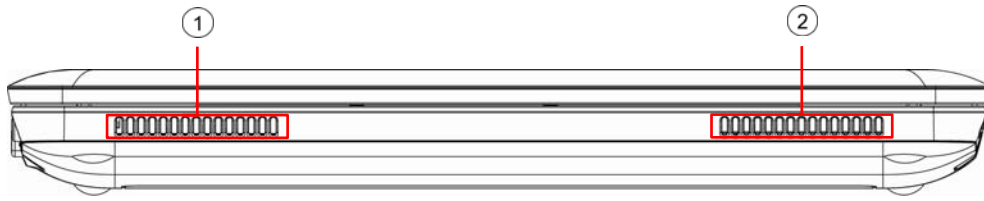
Before you start using your computer, you need to get acquainted with your **notebook's** main features and interfaces:



**Panoramic View**

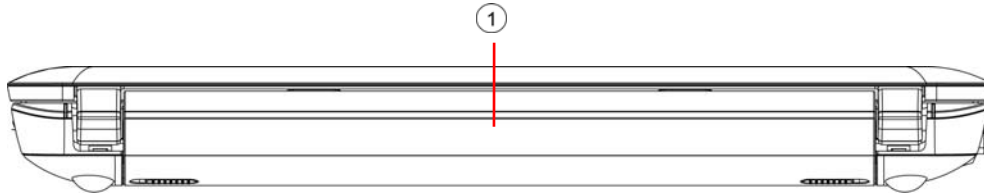
① Internal Microphone	⑧ 2-in-1 Media Card Reader (SD/SD-HC, MMC)
② Webcam Lens	⑨ Speaker
③ Webcam LED	⑩ Touch Pad
④ Kensington Lock	⑪ Ventilation Holes
⑤ RJ45 LAN Connector	⑫ Keyboard
⑥ Two USB Connectors	⑬ LCD Screen
⑦ Power Switch with LED	





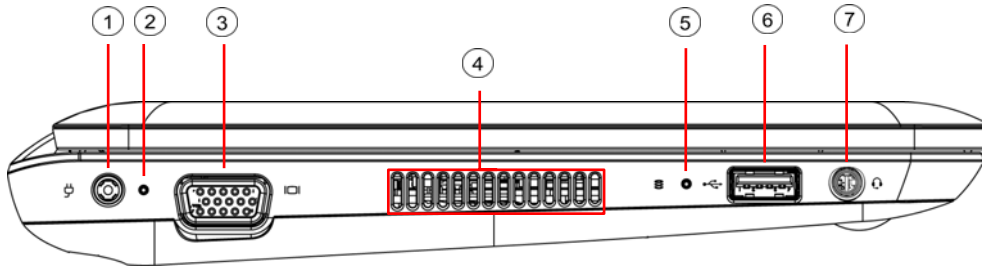
**Front View**

- |                     |           |
|---------------------|-----------|
| ① Ventilation Holes | ② Speaker |
|---------------------|-----------|



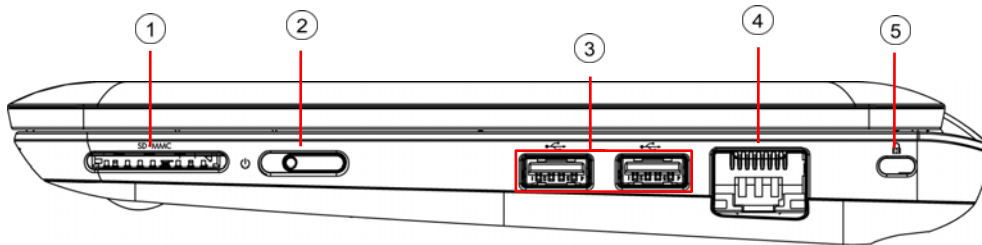
**Rear View**

- |                |  |
|----------------|--|
| ① Battery Pack |  |
|----------------|--|



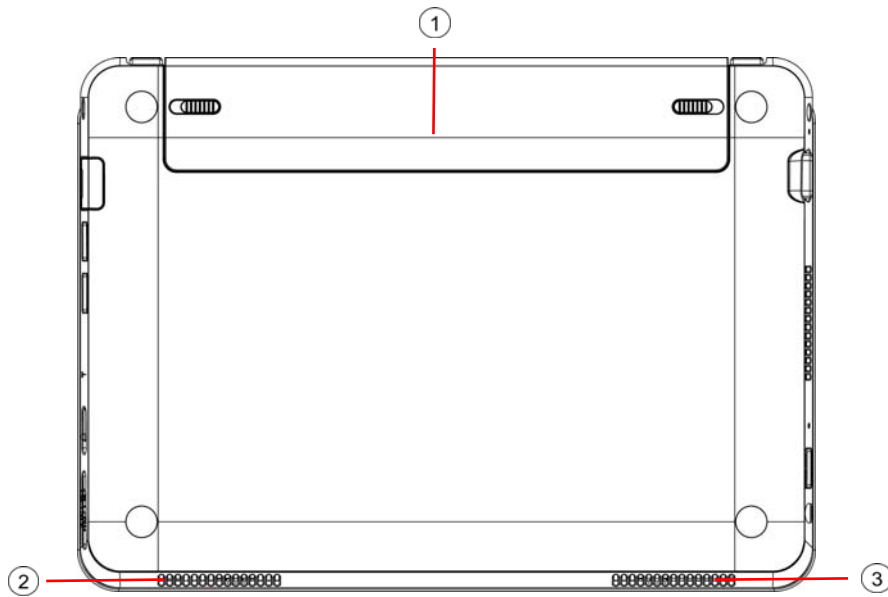
**Left View**

① DC-In Jack	⑤ HDD LED
② DC-In Jack LED	⑥ USB Connector
③ VGA Connector	⑦ Headphone / Microphone Jack
④ Ventilation Holes	



**Right View**

① 2-in-1 Media Card Reader (SD/SD-HC, MMC)	④ RJ45 LAN Connector
② Power Switch with LED	⑤ Kensington Lock
③ Two USB Connectors	

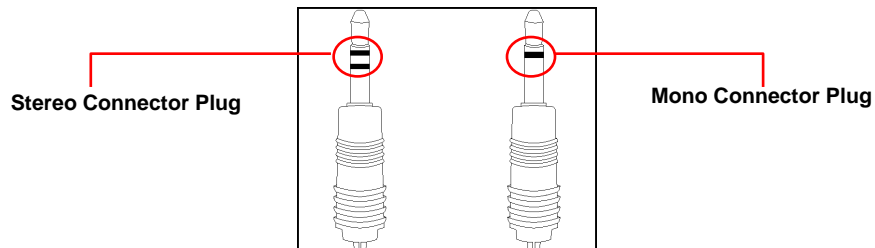


**Bottom View**

① Battery Pack	③ Ventilation Holes
② Speaker	

**Warning:** For better ventilation of heat generated and gathered inside the system unit, you are advised not to block the ventilation holes. For **notebook** with ventilation holes on the system chassis, please avoid putting system unit on fabric surfaces when it is powered on. Fabric surfaces not only tend to block the ventilation holes located on the system chassis, fabric threads (especially from carpets and rugs) would invariably come off and get inside the system unit which in turn would deteriorate the overall performance of the system's ventilation.

**Note:** Some external USB devices consume more power than this system unit can provide. In this case, these USB devices have their own power cords. To make sure this kind of USB devices can function properly, please connect these devices to the AC source first before connecting to the system unit.



### *Two Types for Audio Jack*

Headphone / Microphone Jack	The system's headphone jack supports both stereo and mono connection plugs.
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### 1.3 The System LED

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#### The HDD LED

Below is how the LED would behave in different situations:

<b>White</b>	The system is accessing the hard disk drive.
<b>Off</b>	The system is not accessing the hard disk drive.

**Note:** The HDD LED are located on the left side of the system unit. For exact location, please refer to the **Left View** diagram in *Chapter 1.2*.

## 1.4 The Five Status LEDs



### The DC-In LED

Below is how the DC-In LED would behave in different situations:

<b>White</b>	The system is running on AC power and the battery is not inserted.
<b>Amber</b>	The battery is charging.



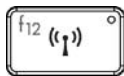
### The Webcam LED

This LED would be lit when the Webcam is in use.



### The Caps Lock LED

The LED would be lit when the keyboard is in Caps Lock mode. In this mode, all characters you type are in uppercase.



### The Wireless Button With LED

Press fn+ f12 to power on and power off the **Wireless LAN/Bluetooth** module or the **WWAN** module, or any combination of these two modules. The main purpose of this button is to provide you a quick way to turn off the power of wireless connection functions when entering venues like airplanes, airports, and hospitals where the usage of wireless connection functions is prohibited or not advisable.

Below is how the **Wireless Button with LED** would behave in different situations:

<b>White</b>	Either the <b>Wireless LAN/Bluetooth</b> module or the <b>WWAN</b> module (or both of these two modules) is powered on.
<b>Amber</b>	Both the <b>Wireless LAN/Bluetooth</b> and <b>WWAN</b> modules are powered off.



### The Speaker On/Off LED

This LED would be lit when the speaker is turned on.

**Note:** For exact locations of these **Status LEDs**, please refer to the **Panoramic View** and **Left View** diagrams in *Chapter 1.2*.

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## 1.5 The Power Switch With LED

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### The Power Switch With LED

This **Power Switch** is programmable by the user. For details on how to program this switch, please refer to the **Power Options** of **Control Panel** in **Windows™ System**. This switch has a LED indicator that shows whether the system is powered on or not.

Below is how the power LED would behave in different situations:

<b>On</b>	The system is in full operation.
<b>Off</b>	The system is powered off.
<b>Blinking</b>	The system is in <b>Sleep</b> mode.

**Note:** The **Power Switch** is located on the right side of the system. For exact location, please refer to the **Right View** diagram in *Chapter 1.2*.

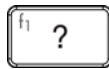
For more details on **Sleep** and **Hibernate**, please refer to **Power Options** (of **Windows™ System**) in the **Control Panel** of your **Microsoft™ Windows™** operating system.



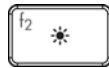
## 1.6 The <fn> Key

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The <fn> Function Key is located near the bottom-left corner of the keyboard. This key is used together with other keys to activate certain pre-defined functions. To activate these functions, press and hold down <fn> together with the keys described below:

**Opening the Help Menu**

Press this key combination (*fn+f1*) for the Windows™ Help menu.

**Brightness Decreasing**

Press this key combination (*fn+f2*) to decrease the brightness of LCD display.

**Brightness Increasing**

Press this key combination (*fn+f3*) to increase brightness of LCD display.

**LCD / External Monitor Switch**

Press this key combination (*fn+f4*) to switch between LCD only, external monitor only, and LCD/ external monitor simultaneously.

**Media Previous Track**

Press this key combination (*fn+f5*) to skip to the previous track/chapter of media playback.

**Media Play/Pause**

Press this key combination (*fn+f6*) to play or pause media playback.

**Media Stop**

Press this key combination (*fn+f7*) to stop media playback.

**Media Next Track**

Press this key combination (*fn+f8*) to skip to the next track/chapter of media playback.

**Volume Decreasing**

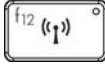
Press this key combination (*fn+f9*) to decrease the audio volume.

**Volume Increasing**

Press this key combination ( $fn+f10$ ) to increase the audio volume.

**Mute / Un-Mute Switch**

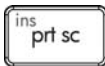
Press this key combination ( $fn+f11$ ) to mute and un-mute the audio volume.

**Turning on Wireless Module**

Press this key combination ( $fn+f12$ ) to power on and power off the **Wireless LAN/Bluetooth** and **WWAN** modules, or any combination of these two modules.



Press this key combination ( $fn+pause$ ) to break the MS-DOS application program you are running. Its function is the same as the industry standard “break” key.

**Print Screen Switch**

Press this key combination ( $fn+ins$ ) to capture the screen image. Its function is the same as the industry standard “prt sc” key.

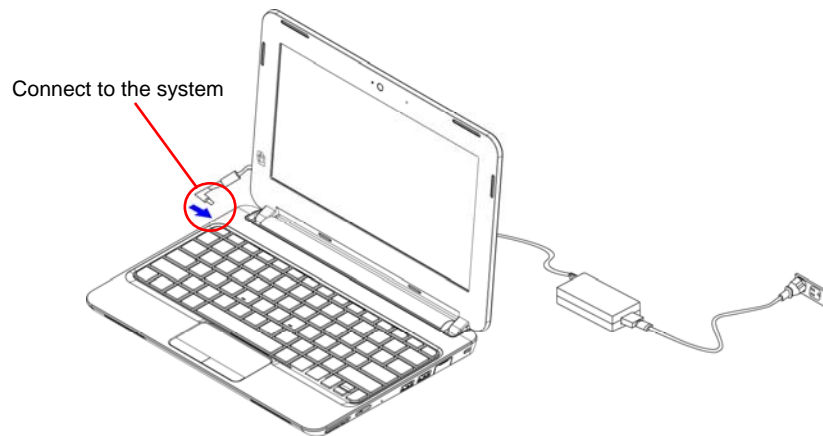
## *1.7 Operating Temperature*

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Operating Temperature : 10°C to 35°C.

## *1.8 The AC Adapter*

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Once the adapter is connected to a wall socket, it starts providing power to the system unit as well as charging the battery.

## Chapter 2 Battery

### 2.1 Battery Pack

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Your **notebook** is equipped with a high-energy rechargeable **Lithium Ion (Li-Ion)** battery pack. Battery life will vary depending on the product configuration, product model, applications loaded on the product, power management settings of the product, and the product features used by the customer. As with all batteries, the maximum capacity of this battery will decrease with time and usage.

### 2.2 Recharging The Battery Pack

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Your **notebook** supports both on-line and off-line recharge. Follow the procedure below to recharge battery:

- Make sure the battery pack is installed in the **notebook**.
- Connect the AC adapter to the **notebook** and to an electrical outlet.

When the notebook is OFF, a depleted Li-Ion battery will take three hours to recharge.

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## 2.3 Questions And Answers

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**Q:** I can feel a mild heat next to the **battery pack** during recharge. Is it normal?

**A:** The battery will generate heat during recharging and discharging. There is a protection circuit inside the **notebook** to prevent overheating. User needs not to worry.

**Q:** My battery operation time is not as long as it should be. Why?

**A:** The battery is heat sensitive and can only be charged to its maximum if the battery and its environmental temperature remain within 15-25°C (59-77°F). The more the temperature deviates from this range during recharging, the less chance there is for the battery to be fully charged. In order to recharge the pack to its full capacity, users are requested to cool down the unit by unplugging the AC Adapter. Wait until it is cooled down. Then plug in the AC Adapter to start recharging again.

**Q:** I did not use my spare battery for a few days. Even though it was fully recharged, there wasn't as much power left as a newly charged one. Why?

**A:** The batteries will self-discharge (1% per day for Li-Ion) when they are not being recharged. To make sure a battery pack is fully charged, recharge before use. Always keep the battery inside the **notebook** and have the AC adapter connected whenever possible.

**Q:** I did not use my spare battery for months. I have problem in recharging it.

**A:** If you happen to leave your battery pack to go through an extended period of self-discharge, say more than three months, the battery voltage level will become too low and needs to be **Pre-Charged** (to bring the battery voltage level high enough) before it automatically (for Li-Ion only) resumes its normal **Fast Charge**. **Pre-Charge** may take 30 minutes. **Fast Charge** usually takes 2~3 hours.

## 2.4 Battery Maintenance

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To maintain the battery pack's maximum capacity, you should occasionally let the **notebook** deplete its battery power completely before recharging.

To carry out a complete depletion of the battery, disconnect the AC adapter and let your **notebook** consume the remaining battery power. To speed up the depletion, use the HDD as much as possible, and the LCD should be set as bright as possible. When the battery is empty, wait for the **notebook** to cool down (especially the battery). The temperature should be within 15-25°C (59-77°F). Then insert the AC adapter to recharge the battery.

## 2.5 Power Consumption

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The **Windows™** operating system has incorporated the latest state-of-the-art **ACPI (Advanced Configuration Power Interface)** power management methodology. In order to fully utilize the power of your battery packs, it would be a good idea for you to spend sometime to acquire a basic understanding of the power management concept from your operating system.

In **Windows™ Operating Systems**, you can go through **Power Options** of the **Control Panel** according to the version of **Windows™ Operating System** the **notebook** applies. We shall not describe them in details.

## 2.6 Reducing Power Consumption

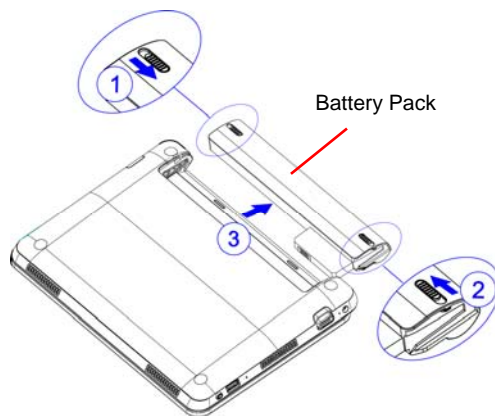
Although your **notebook** (together with the operating system) is capable of power conservation, there are measures you can take to reduce the power consumption:

- Use the AC power whenever possible.
- Lower the intensity of the LCD backlight. A very bright screen translates to higher power usage.
- Try to use the HDD to read and write files, instead of using the external USB ODD.

**Note:** Whenever system is powered on or powered off, make sure the battery pack is installed in the battery pack compartment.

## 2.7 Removing The Battery Pack

This battery pack can easily be removed and replaced. Make sure that the computer is properly shutdown before changing the battery pack. If you would like to change the battery pack while power is on, make sure this battery pack is not the only electrical source to the system unit. Follow the steps below to remove the battery pack.



- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Push the battery latch to unlock position as shown by **#1** and **#2**.
- Remove the battery pack as shown by **#3**.

To insert the battery pack, reverse the steps above.

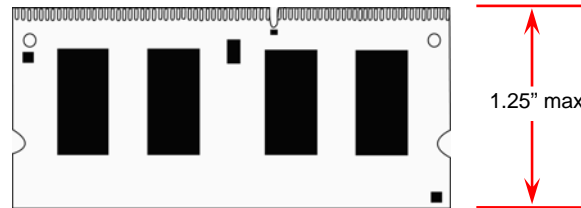


## Chapter 3 Memory

Your **notebook** is equipped with a **DDR3-800/DDR2-667 SO-DIMM** configurable memory unit. The table below illustrates the possible ways system memory can be configured.

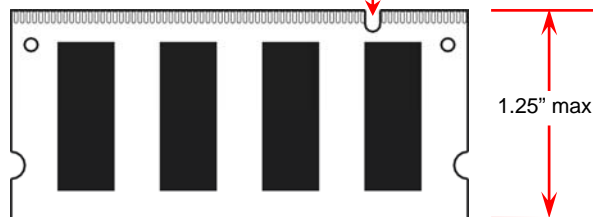
Total Memory	Socket
1024MB	1024MB
2048MB	2048MB

Groove for indicating the orientation of the module



**DDR3 S.O.DIMM Memory Module**

Groove for indicating the orientation of the module



**DDR2 S.O.DIMM Memory Module**

**Note:** Depending on the edition of Windows™ operating system your **notebook** applies, the minimum memory requirement would vary. It is recommended that if you use Windows™ 7 operating system, your system memory should be at least 1024MB.

### *3.1 Limitation Of 32-bit Windows™ OS*

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Below description applies to 32-bit Windows™ OS only, unless otherwise specified. 32-bit Windows™ OS is confined to the limitation of 4GB ( $2^{32-1}$ ) of addressable memory space.

This would not be an issue when you use Windows™ to view the system memory. That is when you have installed 4GB memory as listed above, Windows™ would report the system memory to be 4GB.

However, if you installed 4GB memory and use other application programs to detect memory size, the reported “available memory size” can be as low as 3GB.

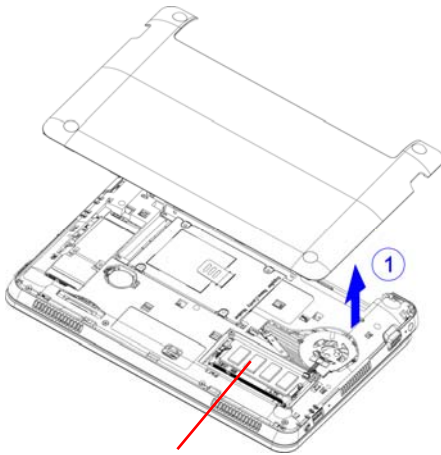
There is no such limitation in 64-bit Windows™ OS.

## 3.2 Removing Memory Module

Below is the procedure on how to remove the memory module.

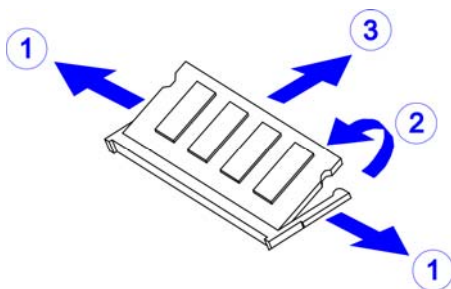


- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Remove the battery pack as shown in **Chapter 2**.
- Push the lock to the right as shown to unlock the D-part.



Memory Module

- Remove D-part as shown by **#1**.



- Pull the spring-locks sideways as shown by **#1**.
- The memory module would pop up as shown by **#2**.
- Remove the memory module as shown by **#3**.

To insert the memory modules, reverse the steps above.

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## Chapter 4 Wireless LAN/Bluetooth Module

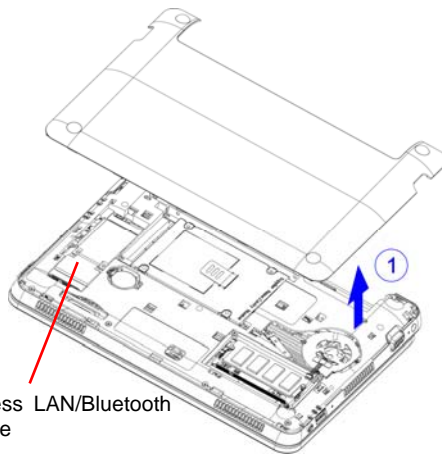
Your **notebook** is equipped with a **Wireless LAN / Bluetooth** module. The **Wireless LAN / Bluetooth** module supports the wireless LAN and Bluetooth function.

### 4.1 Removing Wireless LAN/Bluetooth Module

Below is the procedure on how to remove the **Wireless LAN / Bluetooth** module.

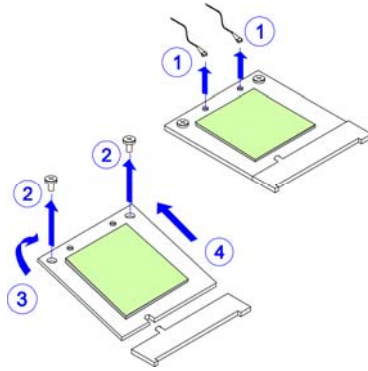


- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Remove the battery pack as shown in **Chapter 2**.
- Push the lock to the right as shown to unlock the D-part.



Wireless LAN/Bluetooth module

- Remove D-part as shown by **#1**.



- Disconnect the two cables as shown by **#1**.
- Remove the two screws as shown by **#2**.
- The **Wireless LAN** module would pop up as shown by **#3**.
- Remove the **Wireless LAN** module as shown by **#4**.

To insert the **Wireless LAN / Bluetooth** module, reverse the steps above.

**Note:** Depending on the different types of the **Wireless LAN / Bluetooth** module, some modules are with two cables, while other modules are with three cables.



## Chapter 5 WWAN Module (Optional)

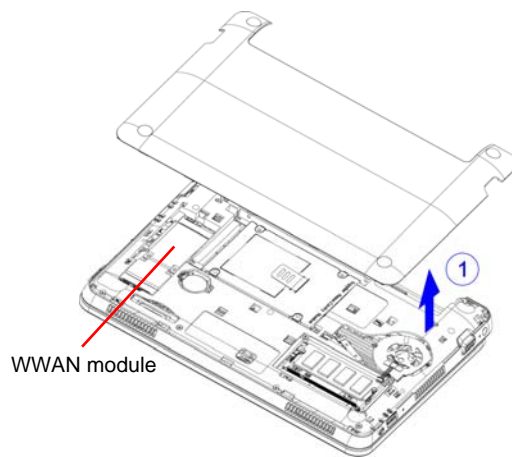
Depending on configurations, your **notebook** is equipped with an optional proprietary **WWAN** module. The **WWAN** module supports **WWAN** (**W**ireless **W**ide **A**rea **N**etwork) function. In order for this **WWAN** module to carry out its intended function, in addition to inserting the **WWAN** module, you also need to insert a SIM card into your system unit.

### 5.1 Removing WWAN Module

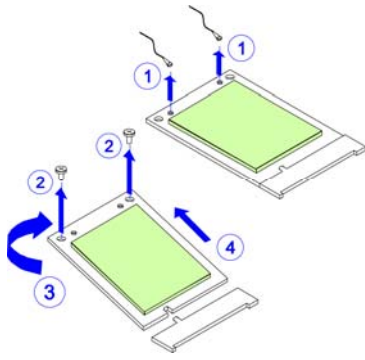
Below is the procedure on how to remove the **WWAN** module.



- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Remove the battery pack as shown in **Chapter 2**.
- Push the lock to the right as shown to unlock the D-part.



- Remove D-part as shown by **#1**.



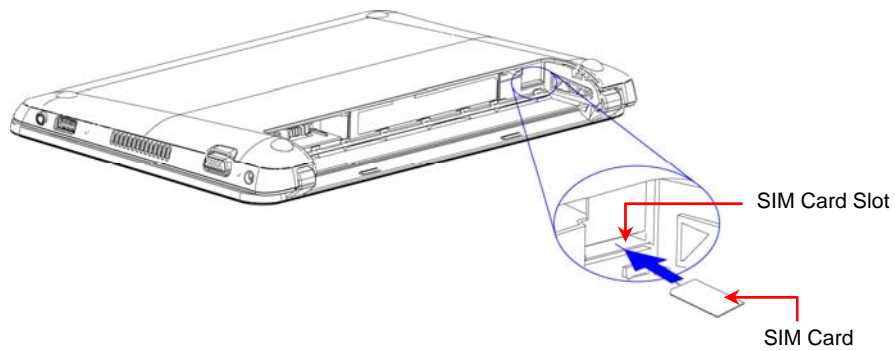
- Disconnect the two cables as shown by #1.
- Remove the two screws as shown by #2.
- The WWAN module would pop up as shown by #3.
- Remove the WWAN module as shown by #4.

To insert the WWAN module, reverse the steps above.

**Note:** Depending on the different types of WWAN module, some modules are with two cables, while other modules are with three cables.

## 5.2 Inserting the SIM Card

Below is the procedure on how to insert the **SIM card**.



- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Remove the battery pack as shown in **Chapter 2**.
- Insert the SIM card into the slot as shown.

**Note:** The **SIM card** is designed to work with the **WWAN** module. Before use, please make sure the **WWAN** module is also installed into the system unit.

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## Chapter 6 The Hard Disk Drive

Your **notebook** is equipped with an industry standard 2.5"/9.5mm hard disk drive.

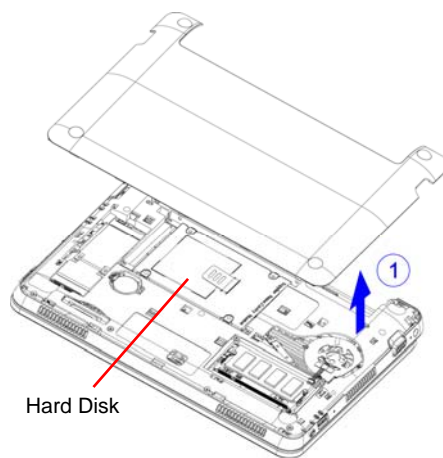
### 6.1 Removing The Hard Disk Drive

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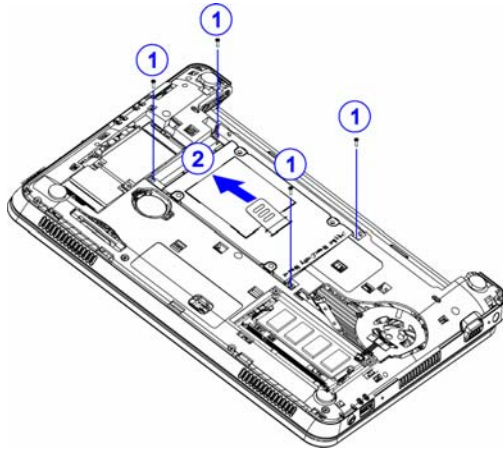
Below is the procedure on how to remove the hard disk drive.



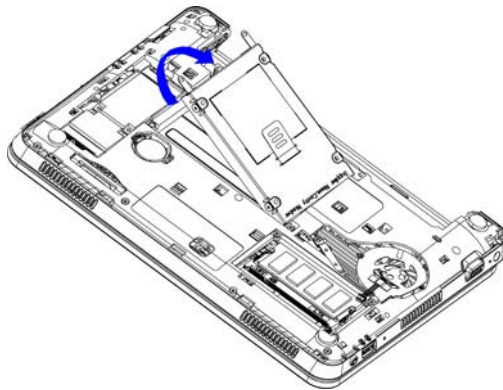
- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Remove the battery pack as shown in **Chapter 2**.
- Push the lock to the right as shown to unlock the D-part.



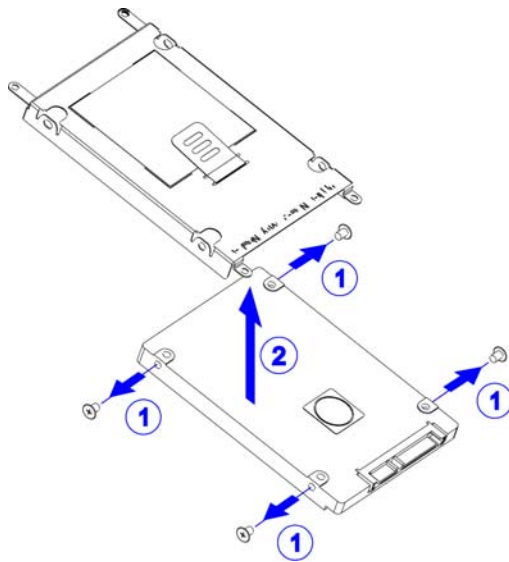
- Remove D-part as shown by **#1**.



- Remove the four screws as shown by #1.
- Pull the handle in a lateral direction to unlock the hard disk drive as shown by #2.



- Tilt up the hard disk drive as shown.
- Remove the hard disk drive.



- Remove the four screws as shown by #1.
- Remove the HDD bracket from the HDD drive as shown by #2.

To insert the HDD drive, reverse the steps above.

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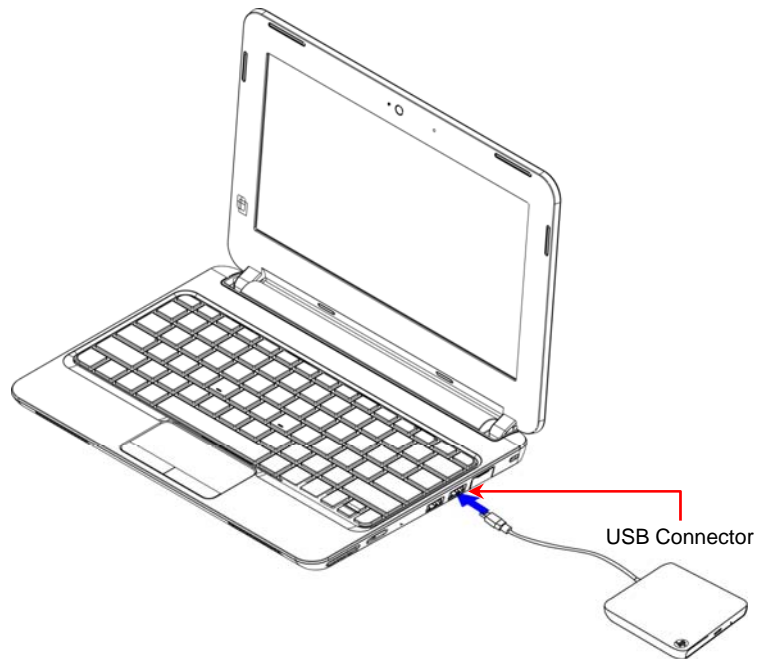
## Chapter 7 The External ODD (Optional)

Depend on the model, your **notebook** may be shipped with an external ODD. You can connect the ODD to an USB connector.

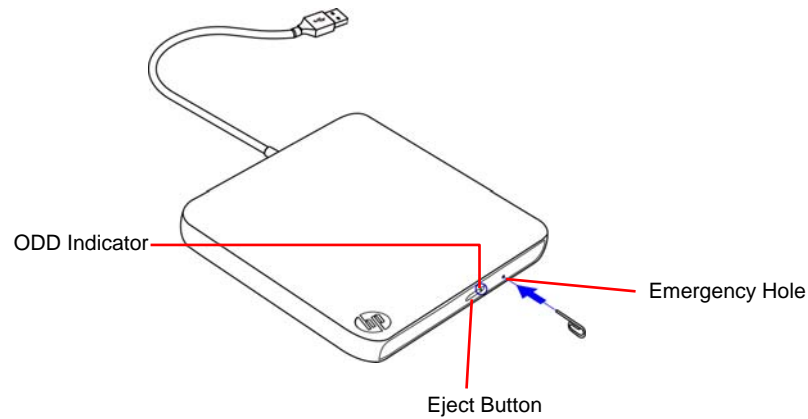
### 7.1 Connecting The External ODD To The System

---

The illustration below shows how to connect the external ODD to the system.



## 7.2 Loading Discs



Follow the steps below to load a disc.

1. When the system is powered on, press the eject button to open the disc tray.
2. Gently grasp and pull the disc tray until it is full opened.
3. Put the disc in the disc tray with the label side facing up.
4. Gently push the center of the disc tray until it locks into place.

Follow the steps below to remove discs:

1. Press the eject button and wait for the disc tray to partially open (when the ODD indicator is off). Gently pull the disc tray out until it is full opened.
2. Gently unlock and lift the disc out of the disc tray.
3. Gently push the center of the disc tray until it locks into place.

**Note:** Press the eject button will not open the disc tray when the system is off. In this case, you can open the disc tray by inserting a paper clip into the emergency hole next to the eject button.

**Note:** If the disc is not seated properly when the disc tray is closed, the disc might be damaged, and the disc tray might not open fully when you press the eject button.

## Appendix A - Agency Regulatory Notices

### A.1 Safety Instructions

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**CAUTION:** Please read these safety instructions carefully.

---



**CAUTION:** Please keep this User's Manual for future reference.

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**CAUTION:** Please disconnect this equipment from AC outlet before cleaning. DO NOT use liquid or sprayed detergent for cleaning. Use a clean moistened cloth.

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**CAUTION:** The wall socket used should be positioned near the equipment and should be easily accessible.

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**CAUTION:** Please keep this equipment free from humidity.

---



**CAUTION:** Place the equipment on a reliable surface at all times. A drop or fall can cause severe damage.

---



**WARNING:** The openings of the enclosure are for air ventilation and are meant to protect the equipment from overheating. DO NOT COVER THE VENTILATION OPENINGS.

---

---



**CAUTION:** Verify the voltage of the power source before connecting the unit to any power outlet.

---



**WARNING:** DO NOT step on or place anything over the power cord.

---



**CAUTION:** All cautions and warnings on the equipment should be noted.

---



**WARNING:** If the equipment is not used for a long period of time, disconnect the equipment from the power source to avoid damage from power spikes.

---



**WARNING:** NEVER pour any liquid into any openings; a fire or electrical shock is possible.

---



**WARNING:** For safety reasons, other than pre-designated ports, doors, and the equipment should be opened only through qualified service personnel.

---



**CAUTION:** If one of the following situations should arise, the equipment should be checked by an authorized technician:

- a. The power cord or plug is damaged.
  - b. Liquid has penetrated into the equipment.
  - c. The equipment has been exposed to excessive moisture.
  - d. The equipment does not work well, or you fail to get it to work according to user's manual.
  - e. The equipment has been dropped or damaged.
  - f. The equipment has obvious signs of breakage.
- 
-



**CAUTION:** DO NOT LEAVE THE EQUIPMENT IN TEMPERATURES BELOW -20°C(-4°F) OR ABOVE 60°C(140°F). IT MAY CAUSE DAMAGE TO THE EQUIPMENT.

---



**WARNING:** This computer contains an internal lithium battery-powered real-time circuit. There is a risk of explosion and injury if the battery is incorrectly replaced or handled. Do not attempt to recharge, disassemble, immerse in water, or dispose of it in fire. Replacement should be done through your notebook dealer.

---



**WARNING:** THE CD-ROM/DVD-ROM IN THIS NOTEBOOK EMPLOYS A LASER SYSTEM.

- a. To ensure proper use of this product, please read the relevant instructions carefully and retain for future reference.
  - b. Should the unit ever require maintenance, contact your local dealer.
  - c. Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.
  - d. To prevent direct exposure to Laser Beam, do not try to open the enclosure.
- 



**CAUTION:** The internal CD-ROM/DVD-ROM drive is classified as a **CLASS 1 LASER PRODUCT**. Label is located on the outside of the CD-ROM/DVD-ROM drive with the following wordings:

**CLASS 1 LASER PRODUCT  
KLASSE 1 LASER PRODUKT**

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**WARNING:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.  
Explosionsgefahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

---



**WARNING:** Your **notebook** contains a Ni-MH or Li-Ion battery pack. There is a risk of fire and chemical burn if the battery pack is handled improperly. Do not disassemble, crush, puncture, short external contact, dispose of in water or fire, or expose it to temperature higher than 60°C.

---



**WARNING:** Handle the battery pack very carefully. Avoid touching the metal leads on the connector of the battery case.

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**CAUTION:** Use only approved AC Adapter with your notebook. Using the wrong type of AC Adapter may cause serious damage to your notebook.

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**CAUTION:** The AC Adapter can accept a line voltage ranging from 100V to 240V and is compatible with most international power sources. If you are unsure whether your power source is compatible, please contact the local dealer for assistance.

---



**CAUTION:** For continued protection against risk of fire, Replace only with same type and rating of fuse.

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**CAUTION:** If the computer is not sold to German area, please use only the local recognized power supply cords that are recommended by the manufacturer.

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**WARNING:** Don't expose your **notebook** to excessive heat or coldness (frost). Don't drop, spill fluids or open the exterior of the case. This can damage the **notebook** and void the warranty.

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**Caution:** This notebook computer contains a certified optical module that is equivalent as a **Class 1 LASER PRODUCT**.

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**Caution:** According to ANSI/NFPA 70 of the National Electrical Code (NEC) Section 820.93, make sure that your CATV system installer has connected the Co-axial cable shield to the grounding system of the building, as close to the point of cable entry as practical. The common or earthed side of the connected (SELV) circuits and any accessible metal parts should be connected to the screen of coaxial cable.

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## A.2 Agency Notice

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### **Federal Communications Commission Notice**

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:

- 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 or television technician for help.

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

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### **Modifications**

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by the manufacturer responsible for compliance may void the user's authority to operate the equipment.

### **Cables**

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.



## FCC RF Radiation Exposure Statement

- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This EUT is compliant with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and has been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.
- If this device is going to be operated in 5.15 ~5.25GHz frequency range, then it is restricted in indoor environment only.

### USA and Canada Safety Requirements And Notices

The FCC with its action in ET Docket 93-62 has adopted a safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC certified equipment. The Intel PRO/Wireless LAN MiniPCI Adapter products meet the Human Exposure limits found in OET Bulletin 65, 2001, and ANSI/IEEE C95.1, 1992. Proper operation of this radio according to the instructions found in this manual will result in exposure substantially below the FCC's recommended limits.

The following safety precautions should be observed:

- Do not touch or move antenna while the unit is transmitting or receiving.
- Do not hold any component containing the radio such that the antenna is very close or touching any exposed parts of the body, especially the face or eyes, while transmitting.
- Do not operate the radio or attempt to transmit data unless the antenna is connected; if not, the radio may be damaged.

Use in specific environments:

- The use of wireless devices in hazardous locations is limited by the constraints posed by the safety directors of such environments.
- The use of wireless devices on airplanes is governed by the Federal Aviation Administration (FAA).
- The use of wireless devices in hospitals is restricted to the limits set forth by each hospital.

Antenna use:

- In order to comply with FCC RF exposure limits, low gain integrated antennas should be located at a minimum distance of 20 cm (8 inches) or more from the body of all persons.
- High-gain, wall-mount, or mast-mount antennas are designed to be professionally installed and should be located at a minimum distance of 30 cm (12 inches) or more from body of all persons. Please contact your professional installer, VAR, or antenna manufacturer for proper installation requirements.

**Explosive Device Proximity Warning**

**Warning:** Do not operate a portable transmitter (such as a wireless network device) near unshielded blasting caps or in an explosive environment unless the device has been modified to be qualified for such use.

**Use On Aircraft Caution**

**Caution:** Regulations of the FCC and FAA prohibit airborne operation of radio-frequency wireless devices because their signals could interfere with critical aircraft instruments.

**Canadian Notice**

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

**Avis Canadien**

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

**Canada Radio Frequency Interference Requirements**

This Class B digital apparatus complies with Canadian ICES-003, Issue 2, and RSS-210, Issue 4 (Dec. 2000).

“To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.”

Cet appareil numérique de la classe B est conforme à la norme NMB-003, No. 2, et CNR-210, No. 4 (Dec. 2000).

“Pour empêcher que cet appareil cause du brouillage au service faisant l’objet d’une licence, il doit être utilisé à l’intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d’émission) est installé à l’extérieur, il doit faire l’objet d’une licence.”

## European Union Notice

Product with the CE Marking comply with the EMC Directive (2004/108/EC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community and if this product has telecommunication functionality, the R&TTE Directive (1999/5/EC).

Compliance with these directives implies conformity to the following European Norms (in parentheses are the equivalent international standards and regulations):

- EN55022 (CISPR 22)— Electromagnetic Interference
- EN55024 (IEC61000-4-2,3,4,5,6,8,11)— Electromagnetic Immunity
- EN61000-3-2— (IEC61000-3-2)-Power Line Harmonics
- EN61000-3-3— (IEC61000-3-3)-Power Line Flicker
- EN60950 (IEC60950) — Product Safety

For devices with built-in wireless equipment, the following additional standards apply:

- ETSI301489-17: General Emissions for Radio Equipment
- EN60950: Safety
- ETSI300328-2: Technical Requirements for Radio Equipment

**CE Caution:** Due to the fact that the frequencies used by 802.11b/802.11g wireless LAN devices may not yet be harmonized in all countries, 802.11b/802.11g products are designed for use only in specific countries or regions, and are not allowed to be operated in countries or regions other than those of designated use. As a user of these products, you are responsible for ensuring that the products are used only in the countries or regions for which they were intended and for verifying that they are configured with the correct selection of frequency and channel for the country or region of use. And deviation from permissible settings and restrictions in the country or region of use could be an infringement of local law and may be punished as such.

The wireless LAN device can currently be used indoors only in the following departments of mainland France.

01	Ain	36	Indre	69	Rhône
02	Aisne	37	Indre et Loire	70	Haute Saône
03	Allier	39	Jura	71	Saône et Loire
05	Hautes Alpes	41	Loir et Cher	72	Sarthe
08	Ardennes	42	Loire	75	Paris
09	Ariège	45	Loiret	77	Seine et Marne
10	Aube	50	Manche	78	Yvelines
11	Aude	54	Meurthe et Moselle	79	Deux Sèvres
12	Aveyron	55	Meuse	82	Tarn et Garonne
16	Charente	57	Moselle	84	Vaucluse
19	Corrèze	58	Nièvre	86	Vienne
2A	Corse Sud	59	Nord	88	Vosges
2B	Haute Corse	60	Oise	89	Yonne
21	Côte d'Or	61	Orne	90	Territoire de Belfort
24	Dordogne	63	Puy du Dôme	91	Essonne
25	Doubs	64	Pyrénées Atlantique	92	Hauts de Seine
26	Drôme	65	Haute Pyrénées	93	Seine St Denis
27	Eure	66	Pyrénées Orientales	94	Val de Marne
32	Gers	67	Bas Rhin		
35	Ille et Vilaine	68	Haut Rhin		

The wireless LAN device cannot currently be used in any departments of mainland France other than those listed above.

Maximum allowable EIRP 802.11b wireless LAN cards in the mainland departments of France not shown in the table above are as follows: (See the ART website at [www.art-telecom.fr](http://www.art-telecom.fr) for information on the French overseas territories.)

Frequency Ranges (MHz)	Indoors	Outdoors
2400 – 2446.5	10 mW	Not permitted
2446.5 – 2483.5	100 mW	100 mW on private property with Ministry of Defense approval

## Japanese Notice

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## DGT Statement

根據交通部 低功率管理辦法 規定：

- 第十四條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
- 第十七條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信，經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。
- 第二十條 輸入、製造低功率射頻電機之公司、商號或使用者違反本辦法規定，擅自使用或變更無線電頻率、電功率者，除依電信法規定處罰外，電信總局並得撤銷其型式認證證明或型式認證標籤。

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