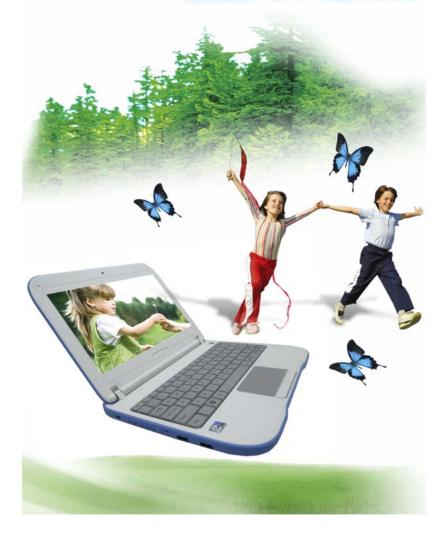
# Intel-powered Classmate PC User's Manual



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#### Preface

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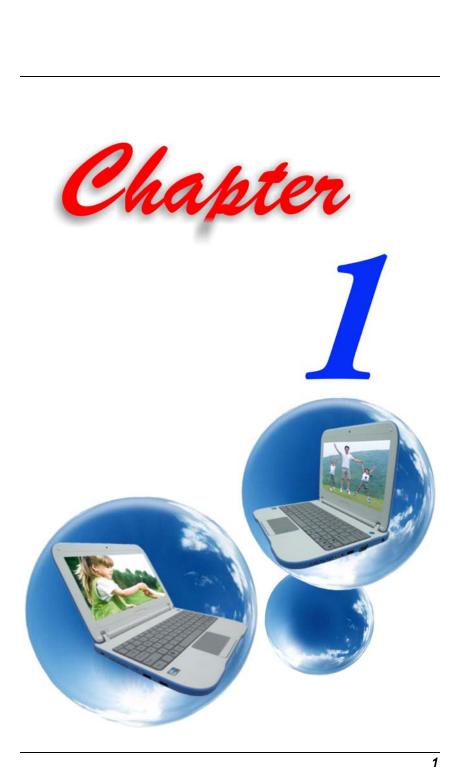
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### Attention: Teachers, Parents and Adult Supervisors

This product is an educational tool designed for school children, ages 6 and up. There must be supervision by an adult on school children under 10 when using this Intel-powered classmate PC. It is a must to have a thorough explanation to students on safe and proper handling of the Intel-powered classmate PC, power supply, battery pack, and power cord.



Be sure to keep the power cord away from younger children

Please ensure that students understand the following:

- Emphasize to students that this device is an educational tool and not a toy. The computer, power supply, battery pack or power cord should not be dropped, crushed, stepped on or otherwise abused.
- Ensure students understand the safe and proper handling of power cord and power supply. Misuse could result in serious injury.
- The teacher, parent or adult supervisor should periodically inspect the computer; power supply and power cord for damage and replace it, if necessary.
- Students should report any damage or loose parts to their teacher, parent or adult supervisor, immediately.
- Do not leave PC plugged in or "on" when enclosed in a nonvented container, such as a school backpack, as overheating may occur.
- It is recommended that students should take a 5 minute break every 30 minutes of use.



#### **Safety Precautions**

The following are lists of precautionary measure the students must understand before using this computer inside the classroom or home environment:



- 1. Do not place near fire or other sources of heat.
- 2. Do not expose to magnetic fields.
- 3. Do not expose to direct sunlight.
- 4. Do not expose to rain or moisture.
- 5. Do not place heavy objects to add heavy pressure on the computer.
- 6. Do not drop the computer.

#### Caring for your Computer

- Be sure not to clean the computer when it is plugged into a wall socket.
- When cleaning the unit, clean only with a damp soft cloth. Do not pour liquid onto the unit..
- Do not clean while computer is "on" or plugged into wall socket.
- Caution students to avoid using this device under wet conditions and also to protect the unit when carrying under this condition.
- Be sure the touch pad does not come into contact with dirt, liquids, or grease.







### **Agency Regulatory Notices**

#### **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 the 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.

#### **WARNING....** This transmitter must not be colocated or operating in conjunction with any other antenna or transmitter.

#### **Modifications**

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

#### **Connections to Peripheral Devices**

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

#### SAR Exposure

Intel-powered clamshell classmate PC has been tested for and found to be in compliance with FCC RF Exposure Limit. During extended periods of use the integrated antenna located at the top left corner of the display screen should be positioned at least 20cm from users or nearby persons.

#### **Declaration of Conformity**

This device complies with Part 15 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.

#### **European Notice**

Products with the CE Marking comply with both the EMC Directive (2004/108/EC) and the Low Voltage Directive (2006/95/EC) and R&TTE Directive (1999/5/EC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022: 2006, CLASS B
- EN61000-3-2: 2006, CLASS D
- EN61000-3-3: 1995+A1: 2001+A2: 2005
- EN55024: 1998+A1: 2001+A2: 2003
- IEC61000-4-2: 2001 ED. 1.2
- IEC61000-4-3: 2006 ED. 3.0
- IEC61000-4-4: 2004 ED. 2.0
- IEC61000-4-5: 2005 ED. 2.0
- IEC61000-4-6: 2006 ED. 2.2
- IEC61000-4-8: 2001 ED. 1.1
- IEC61000-4-11: 2004 ED. 2.0
- EN 300 328-2, EN 300 328-1, EN 301 489-1, EN 301 489-17
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(ETSI 300 328, ETSI 301 489) Electro-magnetic Compatibility and Radio Spectrum Matter.

EN60950 (IEC60950) I.T.E. Product Safety

#### **Canadian Notice**

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le present appareil numerique nemet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de Classe B prescrites dans le reglement sur le brouillage radioelectrique edicte par le Ministere des Communications du Canada.

#### **Attachment Limitations Statement**

#### **NOTICE....** This equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s).

This is confirmed by marking the equipment with the Industry Canada certification number. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company.

The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

# **CAUTION...** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

#### **Power Cord Requirement**

The power cord supplied with the AC adapter should match the plug and voltage requirements for your local area. Regulatory approval for the AC adapter has been obtained using the power cord for the local area.

However, if you travel to a different area and need to connect to a different outlet or voltage, you should use one of the power cords listed below. To purchase a power cord (including one for a country not listed below) or a replacement AC adapter, contact your local dealer.

#### **U.S. and Canada**

- The cord set must be UL/ETL-Listed and CSA-Certified or UL/C-ETL Listed.
- The minimum specifications for the flexible cord are (1) No. 18 AWG, (2) Type SPT-2, and (3) 2-conductor.
- > The cord set must have a rated current capacity of at least 7A.
- The attachment plug must be NEMA 1-15P (7A, 125V) configuration.

#### **Other Countries**

- The cord set fittings must bear the certification mark of the agency responsible for evaluation in a specific country. Acceptable agencies are:
  - CCC (China)
- The flexible cord must be of a HAR (harmonized) type HO5VV-F 3-conductor cord with a minimum conductor size of 0.03 square inches.



- The minimum specification for the flexible cord for Class II product are: (1) 2X0.75 mm<sup>2</sup> conductors, (2) 2-conductor cord.
- The cord set must have a current capacity of at least 10 A and a nominal voltage rating of 125 / 250 VAC.

**NOTE....** This model is designed to use with the following AC Adapter model only.

Manufacture: LISHIN INTERNATIONAL ENTERPRISE CORP. Model: 0225C2040 (AC 2 Pin) Model: 0225A2040 (AC 3 Pin) Manufacture: DELTA ELECTRONICS, INC. Model: ADP-40MH AD (AC 2 Pin) Model: ADP-40MH BD (AC 3 Pin)

#### **Battery Pack Safety**

- The battery pack is intended to use only with this notebook.
- The battery pack should be replaceable by the end user. Only qualified service technicians should replace the battery pack.
- Do not disassemble the pack.
- Do not dispose of the battery pack in fire or water.
- To avoid risk of fire, burns, or damage to your battery pack, does not allow a metal object to touch the battery contacts.
- Handle a damaged or leaking battery with extreme care. If you come in contact with the electrolyte, wash the exposed area with soap and water. If it contacts the eye, flush the eye with water for 15 minutes and seek medical attention.
- Do not charge the battery pack if the ambient temperature exceeds 45°C (113°F).
- To obtain a replacement battery, contact your local dealer.
- Do not expose the battery pack to high storage temperatures (above 60°C, 140°F).
- When discarding a battery pack, contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.
- Use only supplied AC Adapter for charging.

**CAUTION...** Danger of explosion if battery is incorrectly replaced. Only qualified service technicians should replace and discard the battery pack. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions or local laws.

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

#### Lithium battery warning / Bridge battery warning

This computer contains a lithium battery to power the clock and calendar circuitry.

Der Arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 betragt 70dB (A) oder weniger.

Zum Netzanschlua dieses Gerates ist eine geprufte Leitung zu verwenden. Fur einen Nennstrom bis 6A und einem Gerategewicht groBer 3kg ist eine Leitung nicht leichter als (1)H05VV-F, 3G, 0.75mm<sup>2</sup> (2)2X0.75 mm<sup>2</sup> conductors einzusetzen.

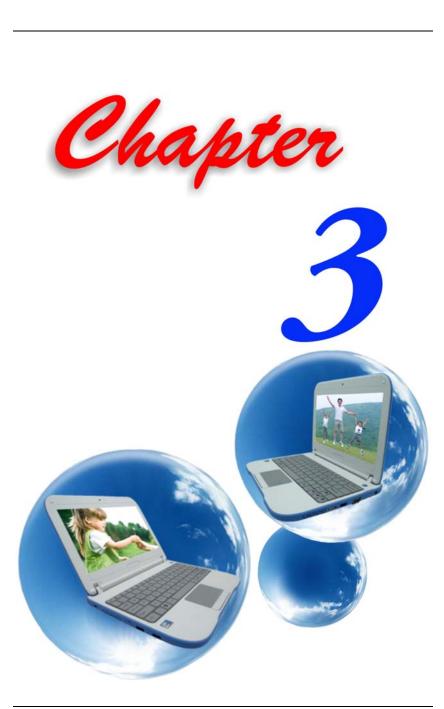
Die Steckdose muB nahe dem Gerat angebracht und leicht zuganglich sein.

CAUTION... This part is hot. Be careful.

**VORSICHT...** Diese Flachewird sehr heiss. When you see this symbol, be careful as this spot may be very hot.

When you see this symbol, be careful as this spot may be very hot.





## **Getting To Know The Basics**

#### Welcome to the Intel-powered Clamshell Classmate PC

Congratulations on your purchase of Intel-powered classmate PC. Intel-powered clamshell classmate PC features the latest advances in portable computing technology. Intel-powered clamshell classmate PC modular design provides maximum expandability without compromising portability.

#### **Getting to Know Your Computer**

#### **Opening the LCD Panel**



classmate PC also features a rugged design that helps protect the computer from scratches and light falls. Please be careful when handling your computer and recommended not to let the computer fall from high places.



# **WARNING....** To avoid damage to the display panel:

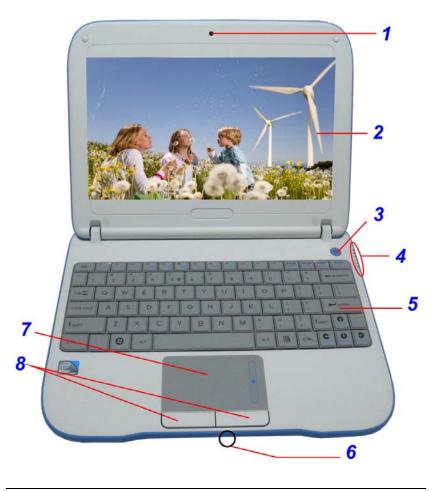
1. Try not to slam the display upon closing it.

2. Try not to place any object on top when it is closed or open.

3. Be sure the system is turned off or in suspend mode before you close the display panel.

With the LCD screen open, you will see several features important for operating your Intel-powered clamshell classmate PC.

**Front View** 



#### 1. Camera

Use this camera for any video conferencing application.

#### 2. LCD Display

The panel is where the system content is displayed.

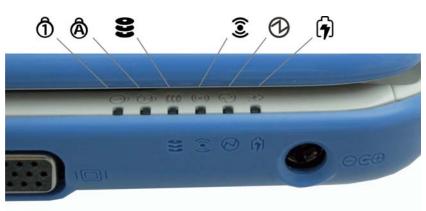
#### 3. Power/Suspend Button

- Press momentarily to turn on the system.
- Press the power/suspend button again to return from the suspend mode.

#### 4. LED Status Indicator

The LED Status Indicator displays the operating status of your Intel-powered classmate PC. When a certain function is enabled, the LED will light up. The following section describes each indicator.

#### **System and Power Status Indicators**



LED Graphic Symbol	Indication
1	Blue light indicates the numeric keypad is activated.
Â	Blue light indicates the cap-lock is activated.
CO	Blue light indicates the is reading/writing data.



-		
۲	Blue light indicates the WLAN module is active.	
$\odot$	Blue light indicates the system is ON.	
	The battery LED reflects according to the following status:	
	<ul> <li>Blue light indicates the battery is fully charged and the AC Adapter is plugged in.</li> </ul>	
_	<ul> <li>Red light indicates the battery is charging.</li> </ul>	
7	<ul> <li>Blinking red light indicates the battery power is low.</li> </ul>	
	<ul> <li>No light indicates that the battery pack is not installed in your system.</li> </ul>	
	<ul> <li>Red light indicates the system is operated by battery where the capacity is low.</li> </ul>	

#### 5. Keyboard

The keyboard is used to enter data.

#### **Built-in Microphone 6**.

The microphone is used when you are having an audio/video conference with the other party.

#### 7. Touch Pad

The touch pad is a built-in pointing device with functions similar to a mouse.

### **NOTE....**

The touch pad is also equipped with a scroll bar so you can move around in a large document.

Sliding a vertical presentation of content, such as text, drawings, or images, across a screen or display window. It is often used to show large amounts of data that could not fit on the viewport all at the same time.



#### 8. Touchpad Buttons

Works like the two buttons on an ordinary mouse.

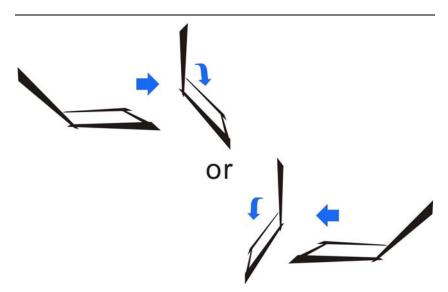
## Water Resistance Precautionary Measures on Keyboard, Power Button and Touch pad Buttons

The Intel-powered clamshell classmate PC features a spillresistance function on keyboard, power button and touch pad buttons to ensure greater protection against spills in the classroom or anywhere.

These are the ways to avoid damage to your system:

- Save all important documents within 3-minutes.
- Power off the system in normal procedure (Click "Start" "Shut down"), unplug the AC adapter then remove the battery.
- Tilt the system to the leftmost or rightmost position and gently wipe the liquid on the keyboard (Remember not to press the keyboard).





> Power On the system after letting it dry up for four hours.

These procedures only apply for water resistance keyboard, power button and touchpad buttons.

**WARNING....** Please take note that it can cause a severe damage to the system if the user uses the abnormal procedure (pressing the Ctrl-Alt-Del key combination) and forcibly shut down the system.

#### **Left Views**



#### 1. Kensington Lock

This security lock provides the best options for physical security of computer in preventing the computer from being stolen.

#### 2. Ventilation Grill

The ventilation opening allows the system to cool off and prevent overheating. Do not block this opening when the system is turned on.

#### 3. Ethernet / LAN Port

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

#### 4. USB 2.0 Ports

This port conforms to the latest USB2.0 plug-and-play standards.

# NOTE.... USB power supported on S5 (power off) Power is supported whether the system is ON or OFF under AC mode.

#### **Right View**



#### 1. Ventilation Grill

The fan grill is where air is exchanged to dissipate the internal heat. Do not completely block this airway.

#### 2. Stereo Headphone Jack

Use the headphone jack to connect an external headphone set.

#### **3.** Microphone Jack

Use the microphone jack to connect an external microphone.

#### 4. USB 2.0 Ports

This port conforms to the latest USB2.0 plug-and-play standards.

#### 5. External Monitor Port

Use this port to connect to an external monitor.

#### 6. Power Jack (DC-in)

The DC-out jack of the AC Adapter connects here and power on the computer.





The built-in speaker output the sound in stereo.

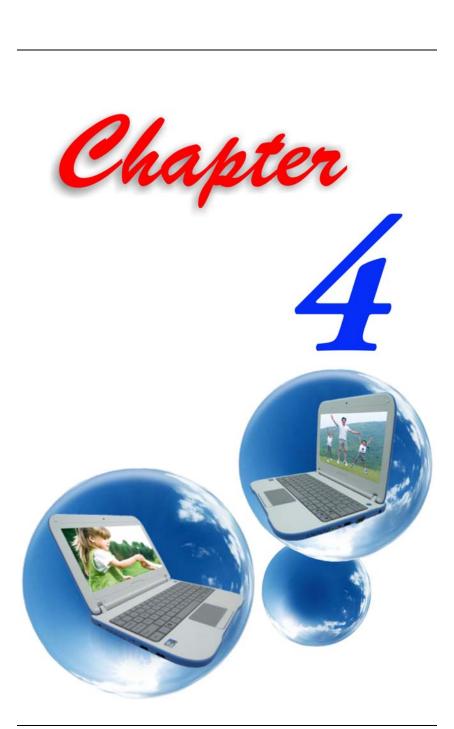
2. Battery Bay

This compartment contains the battery pack for your system.

3. Battery Release Latch/Lock Latch Slide this latch to release or lock the battery from the battery bay.







### **Getting Started**

#### **Connecting to a Power Source**

#### **Connecting the AC Adapter**

A universal AC adapter is provided to supply your computer with power and also charge the computer's battery pack. The adapter's AC input voltage can range anywhere from 100 to 240 volts, covering the standard voltages available in almost every country. To connect the computer to an external power source:



**WARNING....** Do not use inferior extension cords as this may result in damage to your Intel-powered classmate PC. Intel-powered clamshell Classmate PC comes with its own AC adapter. Do not use a different adapter to power the computer and other electrical devices.

Whenever possible, keep the AC adapter plugged into the Intelpowered classmate PC and an electrical outlet to recharge the battery.



WARNING.... Never turn off or reset your Intelpowered classmate PC while the hard disk is in use; doing so can result in loss or destruction of your data. Always wait at least 5 seconds after turning off your Intel-powered classmate PC before turning it back on; turning the power on and off in rapid succession can damage the Intel-powered classmate PC's electrical circuitry.

#### **Turning On Your Computer**

Turn on your Intel-powered classmate PC by pressing the power button. Hold the button down for a second or two and release. The Power-On Self Test (POST) runs automatically.

After the POST is completed, the computer reads the operating system from the hard disk drive into computer memory (this is commonly referred to as "booting" a computer). If your OS (Operating System such as Windows 7.... Etc.) is installed, it should start automatically.

To turn the Intel-powered classmate PC off, save your work and close all open applications, click on "**Start**", select "**Shut down**" or slightly press the power button.

#### **Operating on Battery Power**

Your computer comes with a rechargeable battery pack that lets you operate the computer without an external power source. When the battery pack is fully charged, you can operate the computer under the following conditions:

- The battery pack initially has a full charge.
- No peripheral devices are installed.

#### **The Battery Pack**

#### To Install the Battery Pack:

- Align the battery pack and insert into the battery bay.
- Slide the battery pack gently but firmly until it locks into place.
- Slide the battery lock into locked position.





#### To Remove the Battery Pack:

- Slide the battery lock switch left into unlocked position. The battery pack will pump up from the battery bay.
- Slide and hold the battery release latch then slide the battery pack up.
- Lift up the battery pack from the battery bay.



#### **Lithium-Ion Battery**

Your Intel-powered classmate PC uses a Lithium-Ion battery pack that provides power when you don't have access to an AC outlet.

**NOTE....** You must charge the battery pack for at least six hours before using it for the first time. In the Standby Suspend mode, a fully charged battery loses its power in roughly 1/2 day or less. When not being used, the battery's power will deplete in one to two months.



The battery pack in this system is replaceable by the end user.

#### **Battery Low-Power Warning**

#### 1. Low Battery Warning

Low battery condition occurs when battery power is reduced to **10** percent. The red battery status LED indicator blinks and the system beeps once every **16** seconds or so.

#### 2. Very Low Battery Warning

Very Low battery condition occurs at **5** percent power remaining. The red battery status LED indicator blinks and the system beeps at **4**-second interval.

When the Intel-powered classmate PC warns you of its low battery condition, you will have about three to five minutes to save your current work.

WARNING.... Do not expose battery packs to temperatures below 0 degree Celsius (32 degree F) or above 60 degree C (140 degree F). This may adversely affect the battery pack.

#### **Charging the Battery and Charging Time**

To charge the battery, plug the AC adapter into the Intel-powered classmate PC and an electrical outlet.

For a totally discharged battery, it will take approximately two hours to charge to 90% capacity, and approximately three hours to 100% capacity while Intel-powered classmate PC is powered off. It will take about 5 hours to charge the battery to 100% capacity while Intel-powered classmate PC is powered on.

When the battery is fully charged, the battery charge indicator becomes blue.

**NOTE....** If system runs at heavy loads or in a high temperature environment, the battery may not be fully charged. You need to continue to charge it with the AC adapter plugged in until the charging LED turns blue.

# **NOTE....** System will not charge battery when temperature exceeds 45°C.

#### **Checking the Battery Level**

You can check the remaining battery power in Operating System battery status indicator.

#### Prolonging the Battery's Life and Usage Cycles

There are ways you can prolong the use of battery.

- Use the AC adapter wherever AC wall outlet is available. This will ensure uninterrupted computing.
- Store the battery pack at room temperature. Higher temperature tends to deplete the battery's power faster.
- Make good use of the power management function. Save To Disk (Hibernate) saves the most energy by storing current system contents in a hard disk space reserved for this function.
- The life expectancy of the battery is approximately 300 recharges.
- See the notices section in the beginning of the user manual on how to care for the battery pack.
- Use Function+F7 key to decrease the brightness of the screen.

# **NOTE....** To achieve optimal battery performance, you may need to do a battery calibration at a 3-month interval. To do this:

- Fully charge the battery.
- Then discharge the battery by entering the BIOS setup screen. (Press DEL key as soon as you turn on the computer. And let it remain on the setup screen until the battery runs out.
- > Fully charge the battery again.

#### **Using Power Options**

Operating System Power Management provides basic power saving features. In the power configuration dialogue box, you may enter time-out values for display and hard disk drive.



Operating System power manager saves power by turning off hard drive after 1 minute of inactivity, for example.

**NOTE....** Also consult Operating System user guide for more information on how to use Operating System power management functions. Actual dialogue box shown above may appear slightly different.

#### Suspend Mode

#### **Standby Suspend**

The system automatically enters this mode after a period of inactivity, which is set in the Power Scheme dialog box. In Standby mode, hardware devices, such as display panel and hard disk, are turned off to conserve energy.

#### **Hibernate Suspend**

In this mode, all system data are saved in the hard disk before powering down. When this mode is activated, all system state and contents are saved to the hard disk drive after a period of inactivity defined by the user.

No power or very little power is drawn from the battery module under this mode.

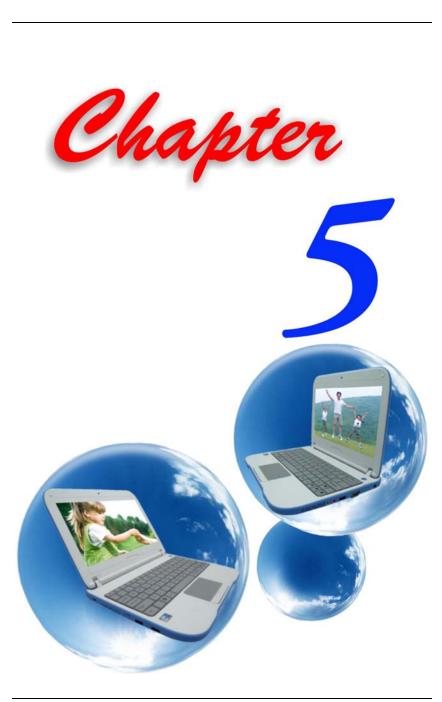
However, depending on how much RAM that has been installed on your computer, the amount of time the system requires to restore all its previous contents can range from five to 20 seconds.

#### **Power Button Action**

Intel-powered clamshell classmate PC power button can be set to turn off the system or activate the suspend mode.







## Using Intel-powered Clamshell Classmate PC

#### Adjusting the LCD Screen Display

The LCD screen display can be adjusted by the following key combinations.

- - + Decreases the brightness level of the screen. It also disables the auto brightness (Light Sensor) adjustment.
  - the screen. It also disables the auto brightness (Light Sensor) adjustment.

#### **LCD Care**

Fn

LCD screens are delicate devices that need careful handling. Please pay attention to the following precautions:

- When you are not using the computer, keep the LCD screen closed to protect it from dust.
- If you need to clean your LCD screen, use a soft tissue to gently wipe the LCD surface.
- Do not put your fingers or sharp objects directly on the surface and never spray cleaner directly onto the display.



Do not press on, or store any objects on the cover when it is closed. Doing so may cause the LCD to break.

#### Intel-powered clamshell Classmate PC Hot Key Controls

#### **Function Keys (Quick Keys)**



#### **Function Keys (Quick Keys)** Fn (()) - WLAN on/off. F2 Fn Enters the Suspend Mode. F3 Fn $\mathbf{x}$ - Mute the system volume F4 Fn () - Decreases the speaker volume. F5 Fn Increases the speaker volume. F6 Fn Changes Display Mode: LCD-only, CRT-only, LCD/CRT simultaneously F7 Fn ΦI) - Decreases the brightness level of the screen. F8 Fn ₽t - Increases the brightness level of the screen. F9 ( D Fn - HSPA on/off

#### The TouchPad



The touchpad is a rectangular electronic panel located just below your keyboard. You can use the static-sensitive panel of the touchpad and slit it to move the cursor. You can use the buttons below the touchpad as left and right mouse buttons.

Move the tip of your finger across the touch pad to move the cursor on the screen.

- > Press the left button once for a left-click operation.
- Press the left button twice for double click operations.
- > Press the right button once for right-click operation
- To drag and drop, press and hold the left button, and move your finger on the touch pad to the desired location.

#### **TouchPad Precautions**

The TouchPad is a pressure sensitive device. Please take note of the following precautions.

- Make sure the TouchPad does not come into contact with dirt, liquids or grease.
- Do not touch the TouchPad if your fingers are dirty.
- Do not rest heavy objects on the TouchPad or the TouchPad buttons.

You can use the TouchPad with Microsoft Windows as well as non-Windows applications.



#### **Resetting the System**

After installing a software application package, you may be prompted to reset the system to load the changed operating environment.

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

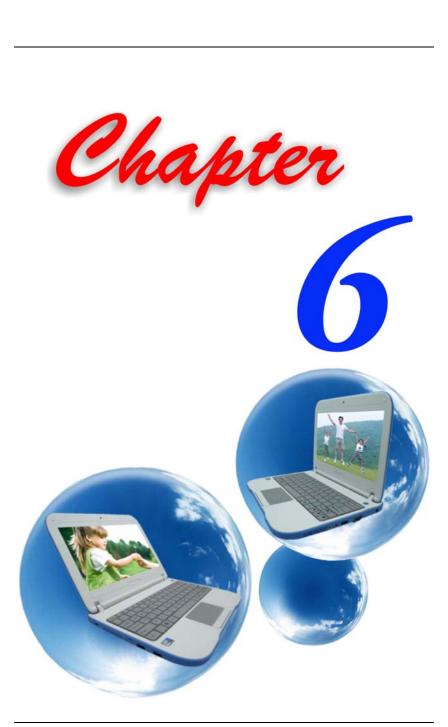
If this key combination does not shut down the Intel-powered classmate PC, you can reset the computer by using the Intel-powered classmate PC's power button. Should the computer lock up for some reason, pressing this button powers the system off.

#### G Sensor (Optional)



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

It monitors system movements that exceed the defined shock threshold. Once a shock is detected, the application instructs the HDD to temporarily park its heads which protects against potential damage the drive.





# BIOS Setup And Security Feature

The Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System). It runs and maintains a variety of hardware functions. It is menu-driven software, which allows you to easily configure and change the settings.

The BIOS contains manufacturers default settings for the computer's standard operations. However, there are occasions when you may be required to modify the default settings in the BIOS.

The BIOS allows you to set up passwords to limit access to users. This is an important feature because a great deal of vital information is carried within the computer nowadays. Unauthorized access can be prevented. Later in this chapter, you will learn how to use this security feature.

#### **Entering the BIOS Setup Screen**

First turn on the power. When the BIOS performs the POST (Power-On Self Test), press DEL key quickly to activate the Setup Utility.

**NOTE....** You may need to press DEL key fairly quickly. Once the system begins to load operating system, you may have to retry by cycle-power on again

#### Leaving the BIOS Setup Screen

When you have finished modifying the BIOS settings, exit the BIOS. It takes a few seconds to record changes in the CMOS.

<b>BIOS Action Key</b>	S
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Legend Key	Alternate Key	Function
F1		Displays the General Help window. It can be enabled from anywhere in the BIOS.
Esc		Jumps to the Exit menu or returns to the Main menu from a submenu.
$\leftarrow$		Selects the menu item to the left.
$\rightarrow$		Selects the menu item to the right.
↑ Or $\downarrow$	Keypad arrow keys	Moves the cursor up and down between fields.
Tab	Enter	Moves the cursor to the next position available in the field.
Minus		Scrolls backward through the values for the
key (=)		highlighted field.
Plus key (+)		Scrolls forward through the values for the highlighted field.
Home	PgUp	Moves the cursor to the field at the top of the window.
End	PgDn	Moves the cursor to the field at the bottom of the window.
F9		Sets the parameters for the current menu to their <i>default</i> values.
F10		Save and Exit.
Enter		Will select a sub menu or show a range of options for a field.

# Modifying the BIOS Settings

The BIOS setup main menu is subdivided into sub-menus. Each menu item is described in this section.

## Main Setup

Under this menu, you may change time/date and view basic processor and system memory information.

	F	Phoenix	Secure	Core(tm)	Setup Ut	ility		
Main	Advand	ced S	ecurity	Boot	Exit			
	Version: Version: age:	BPPNV 0.20	20L86A.0	0007.2010.1	202.1659			
Syster	n Memory:	2048ME	3					
	n Time: n Date:	[15:14:0 [12/17/2						
1 Help sc Exit		ct Item ct Menu	-/+ Enter	Change \ Select I	/alues Sub-Menu	F9 F10	1 22 C	Defaults and Exit

**NOTE....** Due to various configurations on this model, your system may show different information.

- System Time: Type in the current time, in HH:MM:SS format.
- System Date: Type in the current date, in MM/DD/YY format.

# **Advanced Setup**

	Phoe	enix Secure	eCore(ti	n) Setup U	tility
Main	Advanced	Security	Boot	Exit	
<ul> <li>IDE Co</li> <li>Video (</li> <li>SATA C</li> </ul>	onfiguration nfiguration Intel IGD) Conf Controller Mode A AHCI Enable	Option:		[Enhanced] [Enabled]	Item Specific Help
F1 Help Esc Exit	tI Select Iter → Select Me			e Values ▸ Sub-Menu	F9 Setup Defaults F10 Save and Exit

# Security

1		Phoer	ix Secu	reCore(tm)	Setup U	tility	
Main	A	dvanced	Security	Boot	Exit		
Superv User P		Password Is:		Not Installed Not Installed		Item	Specific Help
Set Su	pervis	sor Password	d l	[Enter] [Enter]			visor Password s access to the utility.
Passw	ord or	n boot:		[Enabled]			
F1 Help Esc Exit	<u>†</u> ↓	Select Item Select Men	-/+ u Enter	Change \ Select •	/alues Sub-Menu	F9 F10	Setup Defaults Save and Exit



# **Boot Setup**

		PI	noenix	Secu	reC	ore(	tm)	Setup U	tility		
Main	Ad	lvance	d S	ecurity	/	Boot		Exit			
<ul> <li>Boot S</li> <li>Boot D</li> </ul>				on[Disa	bled	]			Item	n Specific H	elp
F1 Help Esc Exit	†↓ ←→	Select Select		-/+ Enter				'alues Sub-Menu	F9 F10	Setup Defa Save and	

# Exit Setup

	Phoe	nix Secure	eCore(tm)	Setup L	Jtility
Main	Advanced	Security	Boot	Exit	
Exit Dise Load Se	ring Changes carding Change tup Defaults Changes nanges	15			Item Specific Help Exit System Setup and save your changes to CMOS.
	tI Select Iten → Select Me	and the second se	Change Select >	Values Sub-Menu	F9 Setup Defaults F10 Save and Exit
> S	ave Changes	s and Exit:	After you	have co	ompleted the BIOS

Save Changes and Exit: After you have completed the BIOS settings, select this item to save all settings, exit BIOS Setup utility, and reboot. New system settings will take effect on next

power-up. F10 key can be used for this operation.

- Discard Changes and Exit: Discards changes done so far to any of the setup questions and exit.
- Discard Changes: Discards changes done so far to any of the setup questions.
- Load Optimal Defaults: Load Optimal Default value for all the setup questions. F9 key can be used for this operation.



# **3G Connection (Option)**

#### **3G Connection**

3G is the third generation of mobile phone standards and technology. 3G enable users a wide range of more advanced services while achieving greater network capacity through improved spectral efficiency.



Press the hot key combination of Fn + F9 to verify 3G card status (Enable or Disable?) if it is Enable, then click the 3G application icon to start executing the application.

Procedures in installing the application



- Insert the SIM card into the SIM slot.
- Execute the application by pressing the Mobile Partner icon



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From the Mobile Partner display window, click on the "Tools" item

😳 Mobile Partner	~				🛛
Ele Operation Too	ts Help				
Connection	👜 Statistics 👔	Text 🔽	Phonebook		
Profile Name:				Connect	
					5
T	1				

Select the "Options".



Double click on the "Profile Management" and click on the > "New" tab

Text Message Profile Management	Profile Name	New
Network		Delete
	(APN	Edk
	Oynamic Static	Save
	APN:	Undo
	Authentication Access number: User name:	Set as Default
	Password:	Import
	Advanced	Expgrt

Click on the "OK" tab.

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4	n
-	v

🛅 General 🛅 Text Message	Dial-Up	
Profile Management	Profile Name	Naw
Network	New Profile1	Delete
	APN	Edit
	Oynamic Ostatic	Save
	APN:	Undo
	Authentication	
	Access number: *99#	Set as Default
	User name:	Import
	Password:	Export
	Advanced	
	Ок	Cancel
		2
<ul> <li>On the ne</li> </ul>	ext window, click on the "Conn	ect" tab.
• On the ne Mobile Partner	ext window, click on the "Conn	
Mobile Partner	P	
Mobile Partner		
Mobile Partner	P	
Mobile Partner	P	ect" tab.
Mobile Partner e Operation <u>T</u> ools Hel Connection	P	
Mobile Partner e Operation <u>T</u> ools Hel Connection	p Statistics 💽 Text 📜 Phonebook	
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- All configuration settings were completed, please click save icon to save all settings.
- > The HSPA is successfully connected

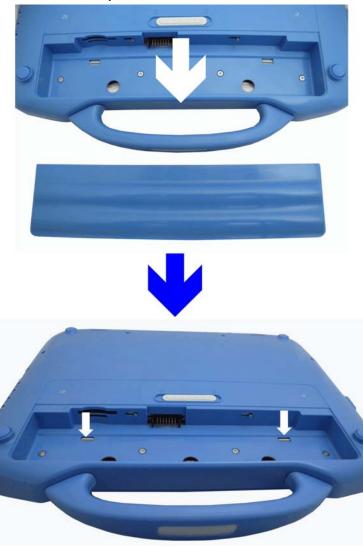


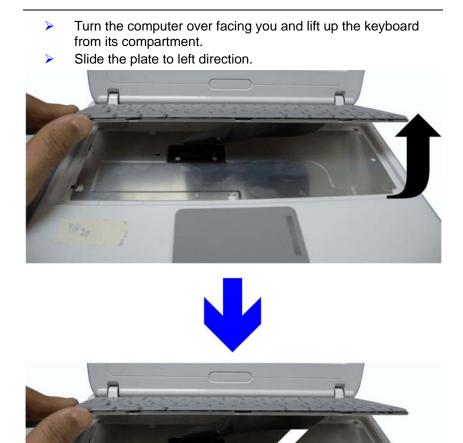
Mobile Partner	Help			🛛
📀 Connection	🔟 Statistics 🔶 Text	Phonebook		
Profile Name:	New Profile1		Disconnect	
	1= 4	0		1
III HSPA Chunghwa	📔 🏦 0.00 кв/s	0.00 KB/s		



## Wimax\WiFi Connection

- > Remove the battery from its compartment.
- Press the two knobs inside the battery compartment to release the keyboard.







- Locate the Wimax\WiFi connector as shown in the illustration. ≻ ≻
  - Remove the screw to release the Wimax\WiFi card.



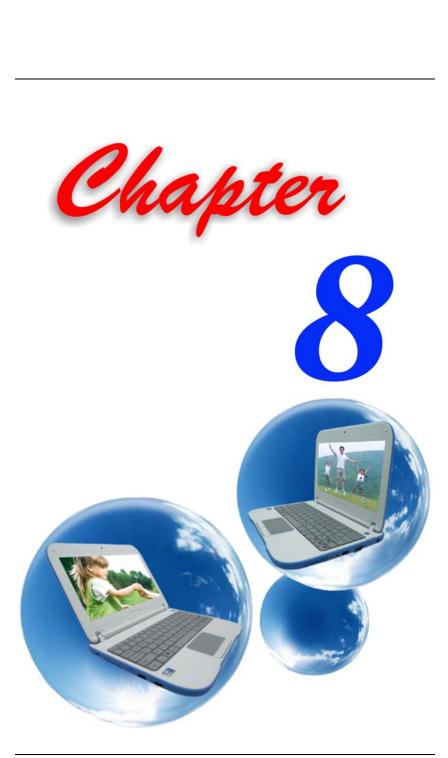












# Web Camera Application

This application offers video conferencing capabilities to work and communicate in real-time with one or more participants through streaming video, from any location.



Press the "Camera" Companion icon key to display the "WebCam Companion" screen display. Click on the "Capture" icon.





# **Main Function**



# **Capture Application**



Use this function to capture the image file of the other party when you are on video conferencing.

## Burst





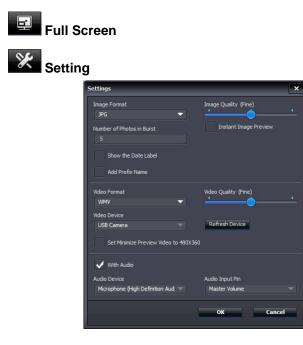
Use this function to continue on capturing the current image that appears on your display to numerous pictures.

#### **Video Capture**



Use this function to capture any video file.

## **Function Setting**





Webcam Setting



Adjust the brightness, contrast, hue and saturation of your captured image or video file.

#### Disconnect

## **Secondary Function**



1. Preview Media File – Use this function to preview either the picture or video file that you recently saved





# **NOTE....** All the photos that you captured will be displayed alternately.

- Find Target Use this function to locate the drive that you would like to save the file that you have currently captured.
- **3.** Email Use this function to mail the file that you have captured.
- 4. Print Use this function to print the file.
- 5. Trash Click on the image or video file that you would like to delete and drag it to this icon.

#### **Edit Application**



The photo that you have captured is shown here for you to edit according to your own preferences.

#### **Edit Function**



**1. Zoom In** – Use this function to enlarge the photo file.

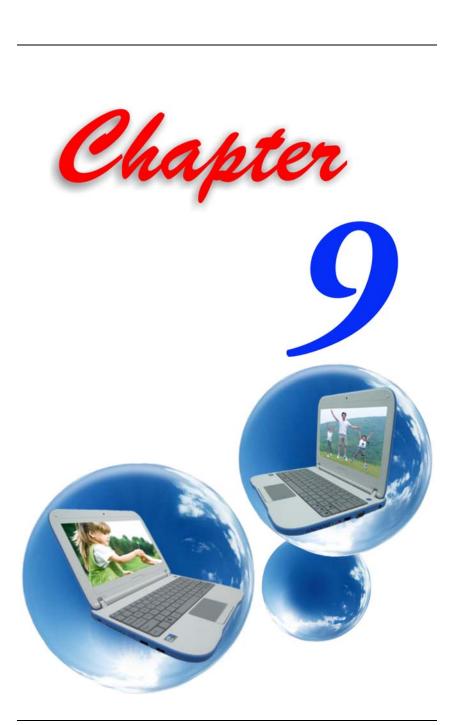


- 2. Zoom Out Use this function to shrink the photo file.
- 3. Rotate Left 90 degrees Use this function to rotate the photo into counter clockwise direction.
- **4.** Rotate Right 90 degrees Use this function to rotate the photo into clockwise direction.
- 5. Flip Use this function to flip the photo file from left to right angle.
- 6. Undo Use this function to switch back to the original angle.
- 7. Redo Use this function to switch to the new angle.
- **8. Resize** Use this function to resize the photo file by adjusting the width and height of your desired size.
- 9. Crop Use this function to crop (cut) the part of the photo that you would like to retain.

#### Annotation



You can use this function to make some changes on the photos taken either by adding some word or change background or erasing any portion that you would like to delete.



# Troubleshooting

Your computer has been fully tested and complies with the system specifications before shipping. However, incorrect operations and/or mishandling may cause problems. You may also encounter simple setup or operating problems that can solve by considering the following suggestions. If the problem persists, contact your dealer for service.

- Check to see if the power cord is properly plugged into the wall outlet and to the computer.
- Check to see the power indicator of the computer is on.
- Check to see if your keyboard is operational by pressing and holding any key.
- Check for any incorrect or loose cable connections. Make sure the latches on the connectors latch securely on to the receptor end.
- Be sure you have not performed an incorrect setting on the hardware devices in the BIOS Setup utility. A faulty setting may cause the system to malfunction. If you are not sure of the changes you made, try to restore all the settings to factory defaults.
- Be sure all the device drivers are installed properly. For example, without the audio driver properly installed, the speakers and microphone will not work.
- Some software programs, which have not gone through rigorous coding and testing, may cause problems during your routine use. Consult the software vendor for problem solving.



# Specification

#### **Operating System**

> Support Windows 7 Starter/Home Basic/Professional

#### CPU

Intel® Atom<sup>™</sup> processor 8.5W(N550), 1.66GHz/512K L2

#### Memory

- > DDR3 667 So-DIMM DRAM module, 1GB. 2GB
- So-DIMM 204-pin socket \* 1

#### **Core Logic**

Intel® NM10 Express Chipset

#### **Audio Codec**

 Realtek ALC269-VA Azalia integrated audio Analog 2.1 D3 mode support

#### **Card reader (Optional)**

- Support SD / SDHC/ MMC Memory Card.
- ➢ USB 2.0 interface
- Support boot from CR



#### **G**-sensor

HDD SKU protection

#### **LAN Controller**

Supports 10 and 100 Mb/sec. Full and half Duplex operation

#### **Wireless LAN**

- ➢ Half Mini-card form factor
- ➢ Wi-Fi 802.11 B/G/N 1x2
- Open mesh support on Linux only
- PCI-E interface

#### Keyboard

- Integrated QWERTY keyboard W/ Hot key
- > 83 UK / 84 US KEY K/B
- Multi-languages Supported

#### **Pointing Device**

PS/2 Touch Pad with Left and Right Click Button and scrolling Bar

#### **Camera (Optional)**

- ➢ USB2.0 interface
- > 30fps @ 640x480, 0.3M
- > 7~9 fps@ 1280x1024,1.3M
- Driver/AP support Windows 7 / XP / Linux

#### Storage

#### SSD

\* SATA 8G/ 16G / 32G SSD MLC

2.5" HDD

- \* Single-HDD for 2.5" 9.5mm SATA support
- Support SATA 2.0



- 5400rpm support
- \* 160G

#### LCD

> 10.1" with 1024x600 resolution

#### 3.75G / WIMAX (Optional)

- Wireless Broadband module support
- > USB interface, Mini-card type
- HSPA/ modules support
- > Connection Manager AP support for Broadband section
- HSPA module w/ 2 antenna support

#### **Battery Pack**

- ➤ 3 cell 3S1P
  - \* 11.1V / 2200mAH (3S1P), 3.7V/2200mAH LG/BAK cell
- ➢ 6 cell (3S2P)
  - \* 11.1V / 4400mAH (3S2P), 3.7V/2200mAH LG/BAK cell
- ➢ 6 cell (3S2P)
  - \* 11.1V / 5200mAH (3S2P), 3.7V/2600mAH LG/BAK cell

#### **AC-Adapter**

- Automatics Voltage adjustment between 100 and 240VAC 50/60Hz, 40Watts
- ➤ 19V/40W
- Supports 2 pin and 3 pin power cord

#### BIOS

- Support PnP & ACPI 2.0
- > Support external USB flash memory card boot up.

#### **Physical Outline**

- Dimension: 267.6mm W x 237.22mm H x 29.9~34.7mm <with Handle>
- > Weight:
  - 10.1" W LCD /HDD/ CAM/ 6 cell battery pack: 1.54 Kg 10.1" W LCD /HDD/ CAM/ 3 cell battery pack: 1.33 Kg ✵
  - ₩

#### EMC

> CE, FCC, CCC

RF

➢ FCC/R&TTE

#### Safety

> UL/CB